

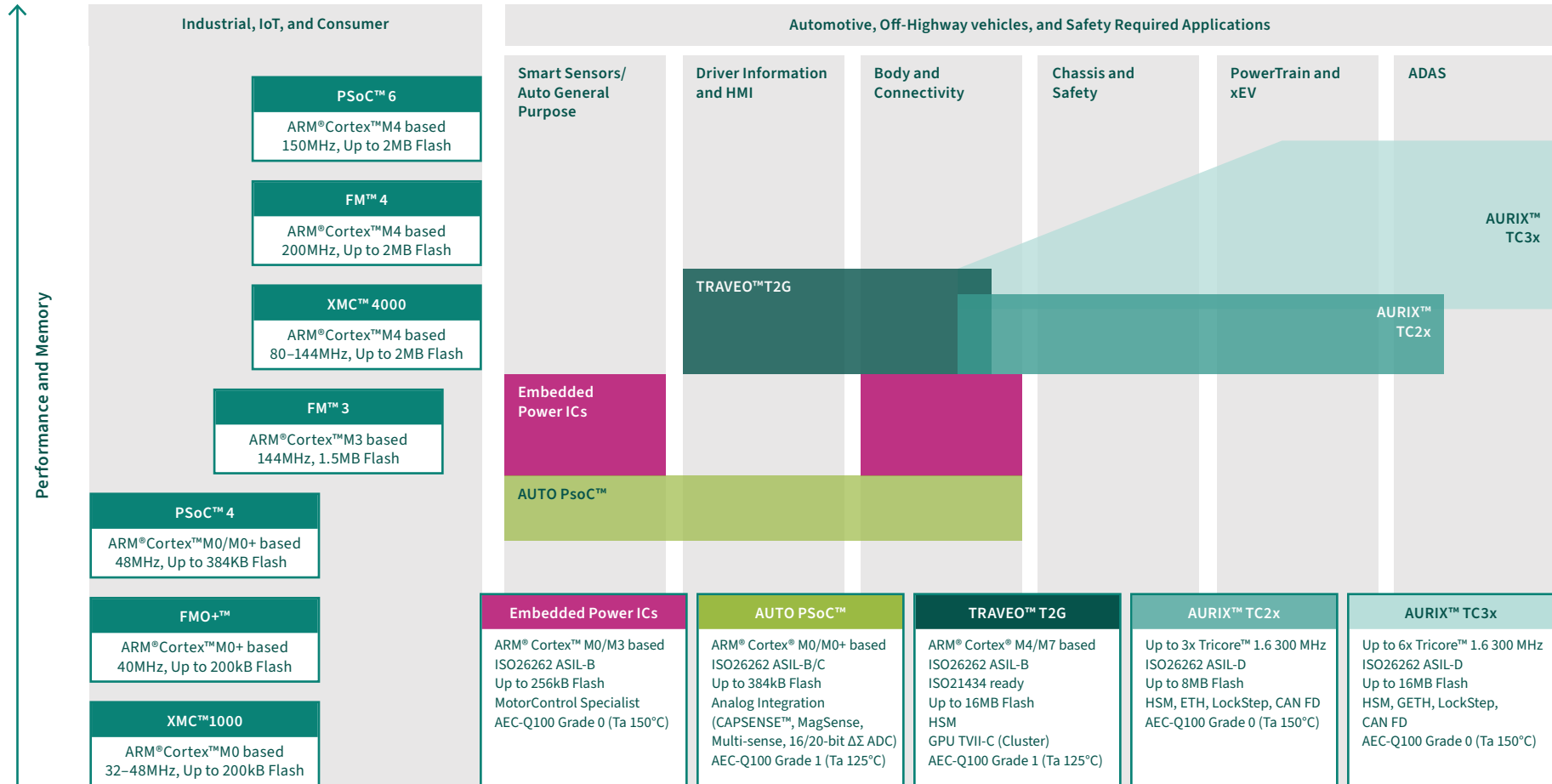


Microcontroller pocket guide

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Infineon Microcontrollers Portfolio



Note: AURIX™ is recommended for Industrial Applications that requires Safety ASIL-D and IEC 61508

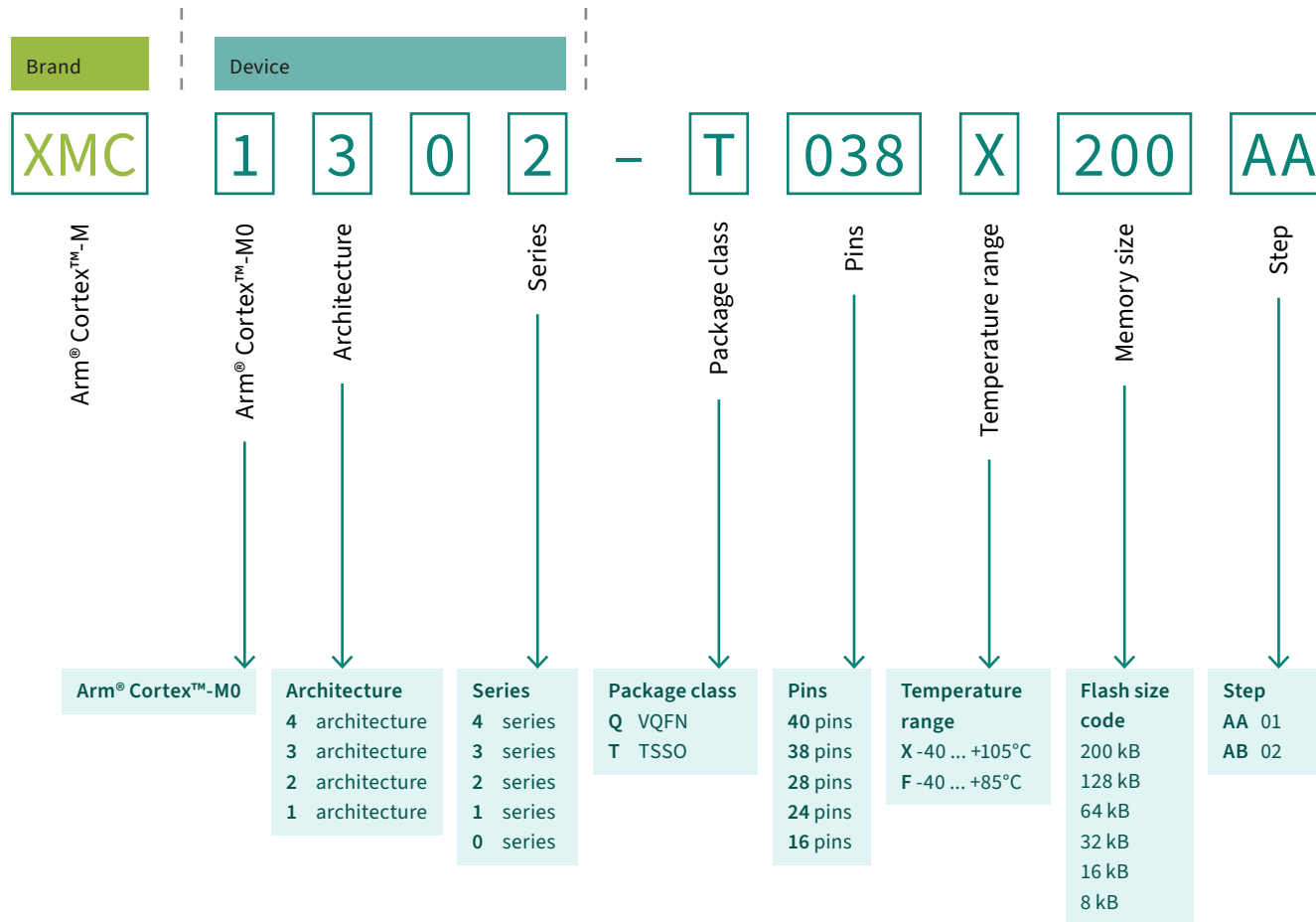
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Industrial IoT, and Consumer



32-bit XMC™ Microcontroller – XMC1000 family



32-bit XMC™ Microcontroller – XMC1000 family

Product type/part number	Markets			GPIOs	Core		Co-processor		System							De-bug	Supply voltage [V]	Operating temperature range TA [°C]	Memory				Peripherals clock [MHz]	Analog			Timer/PWM				Communication										LED display	Capacitive touch												
	Automotive	Industrial	Consumer		Package	Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRG	PRNG				Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace		Flash	ECC	RAM	Cache	EEPROM emulation in flash	Data/IP protection	Secure bootloader	No. of 12-bit ADC/No. of sample and hold/No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®			IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller)							
XMC1100 Series																																																						
XMC1100-T016F0008	-	●	●	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	-	1.8 to 5.5	-40 to 85	8	-	16	-	●	-	●	64	1/1/7	-	-	4 ch	-	-	-	-	-	-	-	-	-	2 ch	●	●	●	●	●	●	●	●	-	-	-	
XMC1100-T016F0016	-	●	●	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	-	1.8 to 5.5	-40 to 85	16	-	16	-	●	-	●	64	1/1/7	-	-	4 ch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
XMC1100-T016X0016	-	●	●	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	-	1.8 to 5.5	-40 to 105	16	-	16	-	●	-	●	64	1/1/7	-	-	4 ch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XMC1100-T016X0032	-	●	●	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	-	1.8 to 5.5	-40 to 105	32	-	16	-	●	-	●	64	1/1/7	-	-	4 ch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XMC1100-T016F0032	-	●	●	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	-	1.8 to 5.5	-40 to 85	32	-	16	-	●	-	●	64	1/1/7	-	-	4 ch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
XMC1100-T016F0064	-	●	●	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	-	1.8 to 5.5	-40 to 85	64	-	16	-	●	-	●	64	1/1/7	-	-	4 ch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
XMC1100-T016X0064	-	●	●	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	-	1.8 to 5.5	-40 to 105	64	-	16	-	●	-	●	64	1/1/7	-	-	4 ch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XMC1100-T038F0016	-	●	●	TSSOP-38	34	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	-	1.8 to 5.5	-40 to 85	16	-	16	-	●	-	●	64	1/1/12	-	-	4 ch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XMC1100-T038F0032	-	●	●	TSSOP-38	34	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	-	1.8 to 5.5	-40 to 85	32	-	16	-	●	-	●	64	1/1/12	-	-	4 ch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XMC1100-T038F0064	-	●	●	TSSOP-38	34	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	-	1.8 to 5.5	-40 to 85	64	-	16	-	●	-	●	64	1/1/12	-	-	4 ch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XMC1100-T038X0064	-	●	●	TSSOP-38	34	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	-	1.8 to 5.5	-40 to 105	64	-	16	-	●	-	●	64	1/1/12	-	-	4 ch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XMC1100-Q024F0008	-	●	●	VQFN-24	22	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	-	1.8 to 5.5	-40 to 85	64	-	16	-	●	-	●	64	1/1/9	-	-	4 ch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XMC1100-Q024F0016	-	●	●	VQFN-24	22	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	-	1.8 to 5.5	-40 to 85	16	-	16	-	●	-	●	64	1/1/9	-	-	4 ch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XMC1100-Q024X0016	-	●	●	VQFN-24	22	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	-	1.8 to 5.5	-40 to 105	16	-	16	-	●	-	●	64	1/1/9	-	-	4 ch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
XMC1100-Q024F0032	-	●	●	VQFN-24	22	Cortex®-M0	32	-	-	-	1	-	-	-	●	●	●	-	1.8 to 5.5	-40 to 85	32	-	16	-	●	-	●	64	1/1/9	-	-	4 ch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

32-bit XMC™ Microcontroller – XMC1000 family

Product type/part number	Markets			GPIOs	Core		Co-processor		System							De-bug	Supply voltage [V]	Operating temperature range TA [°C]	Memory				Secure bootloader	Peripherals clock [MHz]	Analog		Timer/PWM				Communication										LED display	Capacitive touch																
	Automotive	Industrial	Consumer		Package	Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG				Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace			Flash	ECC	RAM	Cache	EEPROM emulation in flash	Data/IP protection	No. of 12-bit ADC/No. of sample and hold/No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®			IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller)											
XMC1300 Series																																																										
XMC1301-T016X0008	-	•	•	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 85	8	-	16	-	•	-	•	64	1/2/7	-	2x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	•	-	-	-		
XMC1301-T016F0016	-	•	•	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 85	16	-	16	-	•	-	•	64	1/2/7	-	2x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	•	-	-	-
XMC1301-T016X0016	-	•	•	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 85	16	-	16	-	•	-	•	64	1/2/7	-	2x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	•	-	-	-
XMC1301-T016F0032	-	•	•	TSSOP-16	14	Cortex®-M0	32	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 85	32	-	16	-	•	-	•	64	1/2/7	-	2x	-	4 ch	-	-	1x	-	-	-	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	•	-	-	-
XMC1301-T038F0008	-	•	•	TSSOP-38	34	Cortex®-M0	32	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 85	8	-	16	-	•	-	•	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	•	-	-	-
XMC1301-T038F0016	-	•	•	TSSOP-38	34	Cortex®-M0	32	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 85	16	-	16	-	•	-	•	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	•	-	-	-
XMC1301-T038F0032	-	•	•	TSSOP-38	34	Cortex®-M0	32	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 85	32	-	16	-	•	-	•	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	•	-	-	-
XMC1301-T038X0032	-	•	•	TSSOP-38	34	Cortex®-M0	32	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 85	32	-	16	-	•	-	•	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	•	-	-	-
XMC1301-T038F0064	-	•	•	TSSOP-38	34	Cortex®-M0	32	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 85	64	-	16	-	•	-	•	64	1/2/12	-	3x	-	4 ch	-	-	1x	-	-	-	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	•	-	-	-
XMC1301-T038X0064	-	•	•	TSSOP-38	34	Cortex®-M0	32	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	64	-	16	-	•	-	•	64	1/2/12	-	3x	-	4 ch	-	-	1x	-	-	-	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	•	-	-	-
XMC1301-Q024F0008	-	•	•	VQFN-24	22	Cortex®-M0	32	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 85	8	-	16	-	•	-	•	64	1/2/9	-	3x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	•	-	-	-
XMC1301-Q024F0016	-	•	•	VQFN-24	22	Cortex®-M0	32	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 85	16	-	16	-	•	-	•	64	1/2/9	-	3x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	•	-	-	-
XMC1301-Q040F0008	-	•	•	VQFN-40	34	Cortex®-M0	32	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 85	8	-	16	-	•	-	•	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	•	-	-	-
XMC1301-Q040F0016	-	•	•	VQFN-40	34	Cortex®-M0	32	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 85	16	-	16	-	•	-	•	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	•	-	-	-
XMC1301-Q040F0032	-	•	•	VQFN-40	34	Cortex®-M0	32	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 85	32	-	16	-	•	-	•	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	-	-	-	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	•	-	-	-

32-bit XMC™ Microcontroller – XMC1000 family

Product type/part number	Markets			GPIOs	Core	Co-processor				System						De-bug	Supply voltage [V]	Operating temperature range TA [°C]	Memory				Peripherals clock [MHz]	Analog			Timer/PWM				Communication										LED display	Capacitive touch													
	Automotive	Industrial	Consumer			Package	Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRG				PRNG	Watchdog	Real-Time Clock	SWD, SPD		JTAG, Trace	Flash	ECC	RAM	Cache	EEPROM emulation in flash	Data/IP protection	Secure bootloader	No. of 12-bit ADC/No. of sample and hold/No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED			EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller)							
																	# channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C	LIN	External Bus Unit (EBU)																															
XMC1300 Series																																																							
XMC1302-T016X0008	-	•	•	TSSOP-16	14	Cortex®-M0	32	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	8	-	16	-	•	-	•	64	1/2/7	-	2x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	-	-	-
XMC1302-T016X0016	-	•	•	TSSOP-16	14	Cortex®-M0	32	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	16	-	16	-	•	-	•	64	1/2/7	-	2x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	-	-	-
XMC1302-T016X0032	-	•	•	TSSOP-16	14	Cortex®-M0	32	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	32	-	16	-	•	-	•	64	1/2/7	-	2x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	-	-	-
XMC1302-T028X0016	-	•	•	TSSOP-28	26	Cortex®-M0	32	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	16	-	16	-	•	-	•	64	1/2/10	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	-	-	-
XMC1302-T028X0032	-	•	•	TSSOP-28	26	Cortex®-M0	32	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	32	-	16	-	•	-	•	64	1/2/10	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	-	-	-
XMC1302-T028X0064	-	•	•	TSSOP-28	26	Cortex®-M0	32	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	64	-	16	-	•	-	•	64	1/2/10	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	-	-	-
XMC1302-T028X0128	-	•	•	TSSOP-28	26	Cortex®-M0	32	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	128	-	16	-	•	-	•	64	1/2/10	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	-	-	-
XMC1302-T028X0200	-	•	•	TSSOP-28	26	Cortex®-M0	32	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	200	-	16	-	•	-	•	64	1/2/10	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	-	-	-
XMC1302-T038X0016	-	•	•	TSSOP-38	34	Cortex®-M0	32	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	16	-	16	-	•	-	•	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	-	-	-
XMC1302-T038X0032	-	•	•	TSSOP-38	34	Cortex®-M0	32	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	32	-	16	-	•	-	•	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	-	-	-
XMC1302-T038X0064	-	•	•	TSSOP-38	34	Cortex®-M0	32	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	8	-	16	-	•	-	•	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	-	-	-
XMC1302-T038X0128	-	•	•	TSSOP-38	34	Cortex®-M0	32	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	128	-	16	-	•	-	•	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	-	-	-
XMC1302-T038X0200	-	•	•	TSSOP-38	34	Cortex®-M0	32	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	200	-	16	-	•	-	•	64	1/2/12	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	-	-	-
XMC1302-Q024F0016	-	•	•	VQFN-24	22	Cortex®-M0	32	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 85	16	-	16	-	•	-	•	64	1/2/9	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	-	-	-
XMC1302-Q024X0016	-	•	•	VQFN-24	22	Cortex®-M0	32	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	16	-	16	-	•	-	•	64	1/2/9	-	3x	4 ch	4 ch	-	-	1x	9 ch	-	-	-	-	-	2 ch	•	•	•	•	•	•	•	•	•	-	-	-

32-bit XMC™ Microcontroller – XMC1000 family

Product type/part number	Markets			GPIOs	Core	Co-processor				System						De-bug	Supply voltage [V]	Operating temperature range TA [°C]	Memory				Secure boot loader	Peripherals clock [MHz]	Analog		Timer/PWM				Communication										LED display	Capacitive touch													
	Automotive	Industrial	Consumer			Package	Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRG				PRNG	Watchdog	Real-Time Clock	SWD, SPD			JTAG, Trace	Flash	ECC	RAM	Cache	EEPROM emulation in flash	Data/IP protection	No. of 12-bit ADC/No. of sample and hold/No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED			EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller)							
XMC1400 Series																																																							
XMC1402-T038X0064	-	•	•	TSSOP-38	34	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	64	-	16	-	•	-	•	96	1/2/12	-	3x	8 ch	8 ch	-	-	2x	9 ch	-	-	-	-	4 ch	•	•	•	•	•	•	•	•	•	•	-	-	-
XMC1402-T038X0128	-	•	•	TSSOP-38	34	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	128	-	16	-	•	-	•	96	1/2/12	-	3x	8 ch	8 ch	-	-	2x	9 ch	-	-	-	-	4 ch	•	•	•	•	•	•	•	•	•	•	-	-	-
XMC1402-T038X0200	-	•	•	TSSOP-38	34	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	200	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	-	-	4 ch	•	•	•	•	•	•	•	•	•	•	-	-	-
XMC1402-Q040X0032	-	•	•	VQFN-40	35	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	32	-	16	-	•	-	•	96	1/2/12	-	3x	8 ch	8 ch	-	-	2x	9 ch	-	-	-	-	4 ch	•	•	•	•	•	•	•	•	•	-	-	-	
XMC1402-Q040X0064	-	•	•	VQFN-40	35	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	64	-	16	-	•	-	•	96	1/2/12	-	3x	8 ch	8 ch	-	-	2x	9 ch	-	-	-	-	4 ch	•	•	•	•	•	•	•	•	•	-	-	-	
XMC1402-Q040X0128	-	•	•	VQFN-40	35	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	128	-	16	-	•	-	•	96	1/2/12	-	3x	8 ch	8 ch	-	-	2x	9 ch	-	-	-	-	4 ch	•	•	•	•	•	•	•	•	•	-	-	-	
XMC1402-Q040X0200	-	•	•	VQFN-40	35	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	200	-	16	-	•	-	•	96	1/2/12	-	3x	8 ch	8 ch	-	-	2x	9 ch	-	-	-	-	4 ch	•	•	•	•	•	•	•	•	•	-	-	-	
XMC1402-Q048X0032	-	•	•	VQFN-48	42	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	32	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	-	-	4 ch	•	•	•	•	•	•	•	•	-	-	-		
XMC1402-Q048X0064	-	•	•	VQFN-48	42	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	64	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	-	-	4 ch	•	•	•	•	•	•	•	•	-	-	-		
XMC1402-Q048X0128	-	•	•	VQFN-48	42	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	128	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	-	-	4 ch	•	•	•	•	•	•	•	•	-	-	-		
XMC1402-Q048X0200	-	•	•	VQFN-48	42	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	200	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	-	-	4 ch	•	•	•	•	•	•	•	•	-	-	-		
XMC1402-Q064X0064	-	•	•	VQFN-64	55	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	64	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	-	-	4 ch	•	•	•	•	•	•	•	•	-	-	-		
XMC1402-Q064X0128	-	•	•	VQFN-64	55	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	128	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	-	-	4 ch	•	•	•	•	•	•	•	•	-	-	-		
XMC1402-Q064X0200	-	•	•	VQFN-64	55	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	200	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	-	-	4 ch	•	•	•	•	•	•	•	•	-	-	-		
XMC1402-F064X0064	-	•	•	LQFP-64	55	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	64	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	-	-	4 ch	•	•	•	•	•	•	•	•	-	-	-		

32-bit XMC™ Microcontroller – XMC1000 family

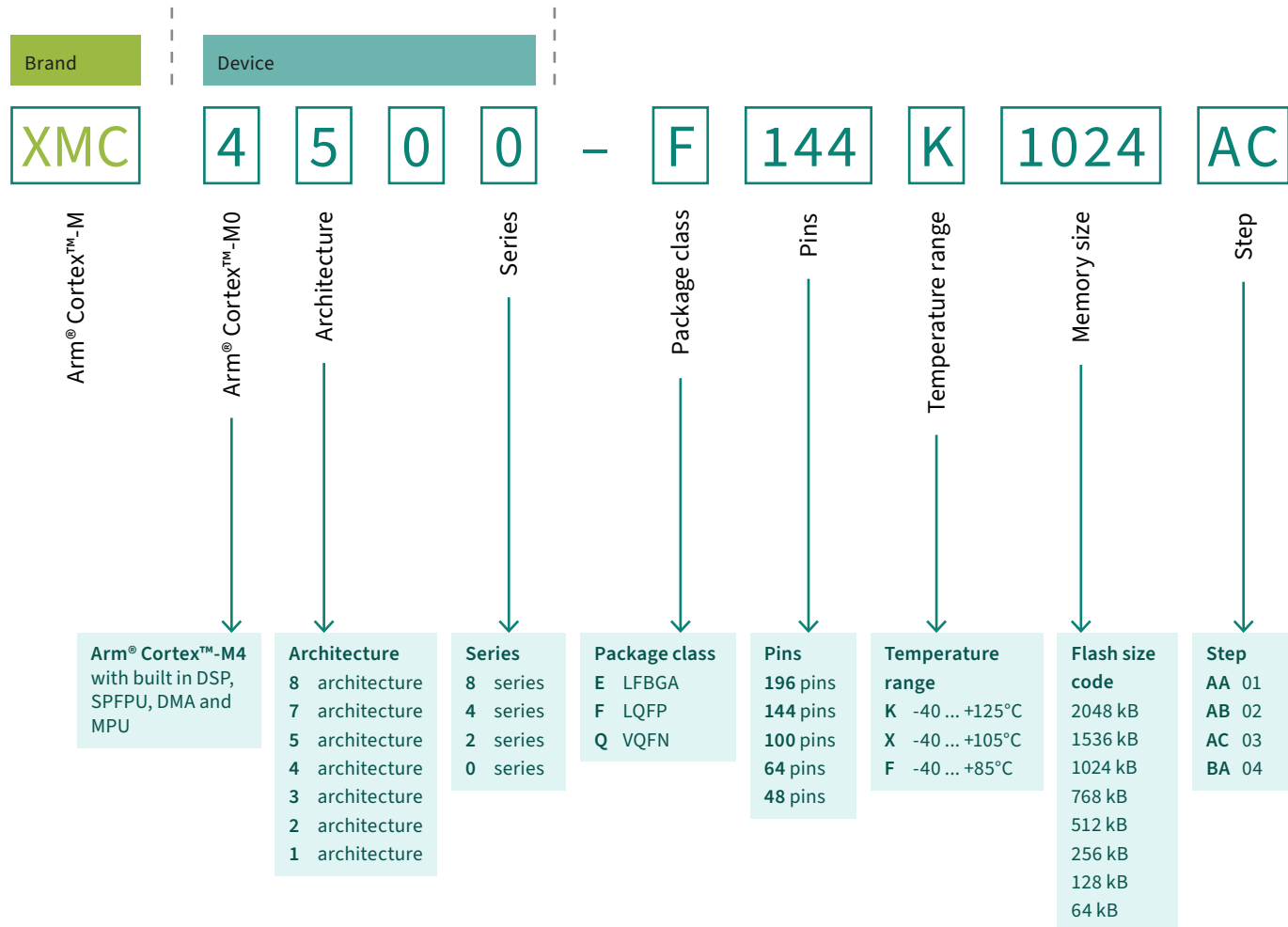
Product type/part number	Markets			GPIOs	Core	Co-processor				System						De-bug	Supply voltage [V]	Operating temperature range TA [°C]	Memory				Secure bootloader	Peripherals clock [MHz]	Analog		Timer/PWM				Communication										LED display	Capacitive touch													
	Automotive	Industrial	Consumer			Package	Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRG				PRNG	Watchdog	Real-Time Clock	SWD, SPD			JTAG, Trace	Flash	ECC	RAM	Cache	EEPROM emulation in flash	Data/IP protection	No. of 12-bit ADC/No. of sample and hold/No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED			EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller)							
XMC1400 Series																																																							
XMC1402-F064X0128	-	•	•	LQFP-64	55	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	128	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	-	-	4 ch	•	•	•	•	•	•	•	•	•	-	-	-	
XMC1402-F064X0200	-	•	•	LQFP-65	55	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	200	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	-	-	4 ch	•	•	•	•	•	•	•	•	•	-	-	-	
XMC1403-Q048X0064	-	•	•	VQFN-48	42	Cortex®-M0	48	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	64	-	16	-	•	-	•	96	1/2/12	-	-	8 ch	-	-	-	-	-	-	-	-	2	-	-	4 ch	•	•	•	•	•	•	•	•	-	-	-
XMC1403-Q048X0128	-	•	•	VQFN-48	42	Cortex®-M0	48	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	128	-	16	-	•	-	•	96	1/2/12	-	-	8 ch	-	-	-	-	-	-	-	-	2	-	-	4 ch	•	•	•	•	•	•	•	•	-	-	-
XMC1403-Q048X0200	-	•	•	VQFN-48	42	Cortex®-M0	48	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	200	-	16	-	•	-	•	96	1/2/12	-	-	8 ch	-	-	-	-	-	-	-	-	2	-	-	4 ch	•	•	•	•	•	•	•	•	-	-	-
XMC1403-Q064X0064	-	•	•	VQFN-64	55	Cortex®-M0	48	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	64	-	16	-	•	-	•	96	1/2/12	-	-	8 ch	-	-	-	-	-	-	-	-	2	-	-	4 ch	•	•	•	•	•	•	•	•	-	-	-
XMC1403-Q064X0128	-	•	•	VQFN-64	55	Cortex®-M0	48	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	128	-	16	-	•	-	•	96	1/2/12	-	-	8 ch	-	-	-	-	-	-	-	-	2	-	-	4 ch	•	•	•	•	•	•	•	•	-	-	-
XMC1403-Q064X0200	-	•	•	VQFN-64	55	Cortex®-M0	48	-	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	200	-	16	-	•	-	•	96	1/2/12	-	-	8 ch	-	-	-	-	-	-	-	-	2	-	-	4 ch	•	•	•	•	•	•	•	•	-	-	-
XMC1404-Q048X0064	-	•	•	VQFN-48	42	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	64	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	2	-	-	4 ch	•	•	•	•	•	•	•	•	•	-	3x 64 segment	24 ch
XMC1404-Q048X0128	-	•	•	VQFN-48	42	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	128	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	2	-	-	4 ch	•	•	•	•	•	•	•	•	•	-	3x 64 segment	24 ch
XMC1404-Q048X0200	-	•	•	VQFN-48	42	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	200	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	2	-	-	4 ch	•	•	•	•	•	•	•	•	•	-	3x 64 segment	24 ch
XMC1404-Q064X0064	-	•	•	VQFN-64	55	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	64	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	2	-	-	4 ch	•	•	•	•	•	•	•	•	•	-	3x 64 segment	24 ch
XMC1404-Q064X0128	-	•	•	VQFN-64	55	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	128	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	2	-	-	4 ch	•	•	•	•	•	•	•	•	•	-	3x 64 segment	24 ch
XMC1404-Q064X0200	-	•	•	VQFN-64	55	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	200	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	2	-	-	4 ch	•	•	•	•	•	•	•	•	•	-	3x 64 segment	24 ch
XMC1404-F064X0064	-	•	•	LQFP-64	55	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	-	1.8 to 5.5	-40 to 105	64	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	2	-	-	4 ch	•	•	•	•	•	•	•	•	•	-	3x 64 segment	24 ch

32-bit XMC™ Microcontroller – XMC1000 family

Product type/part number	Markets		Package	GPIOs	Core Processor type	Core frequency [MHz]	Co-processor				System				De-bug	Supply voltage [V]	Operating temperature range TA [°C]	Memory				Analog				Timer/PWM				Communication											LED display	Capacitive touch																		
	Automotive	Industrial					Consumer	Processor type	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU				CRC	PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace	Flash	ECC	RAM	Cache	EEPROM emulation/in flash	Data/IP protection	Secure bootloader	Peripherals clock [MHz]	No. of 12-bit ADC/	No. of sample and hold/	No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator			POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	# channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I ² C	IIS/I ² S	LIN	External Bus Unit (EBU)		
XMC1400 Series																																																												
XMC1404-F064X0128	-	•	•	•	QFP-64	55	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	•	-	1.8 to 5.5	-40 to 105	128	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	2	-	-	4 ch	•	•	•	•	•	•	•	•	•	•	•	-	3x 64 segment	24 ch	
XMC1404-F064X0200	-	•	•	•	QFP-64	55	Cortex®-M0	48	•	-	-	1	-	-	-	•	•	•	•	-	1.8 to 5.5	-40 to 105	200	-	16	-	•	-	•	96	1/2/12	-	4x	8 ch	8 ch	-	-	2x	9 ch	-	-	2	-	-	4 ch	•	•	•	•	•	•	•	•	•	•	•	•	-	3x 64 segment	24 ch

- BCCU = Brightness and Color Control Unit for LED lighting
- CCU = Capture Compare Unit
- FPU = Floating Point Unit
- MMC = Multi Media Card
- POSIF = Motor Position Interface
- SDIO = SD Card Interface with Input/Output
- USIC = UART/SCI, SPI, Dual-SPI, Quad-SPI, IIC/I²C, IIS/I²S, LIN

32-bit XMC™ Microcontroller – XMC4000 family



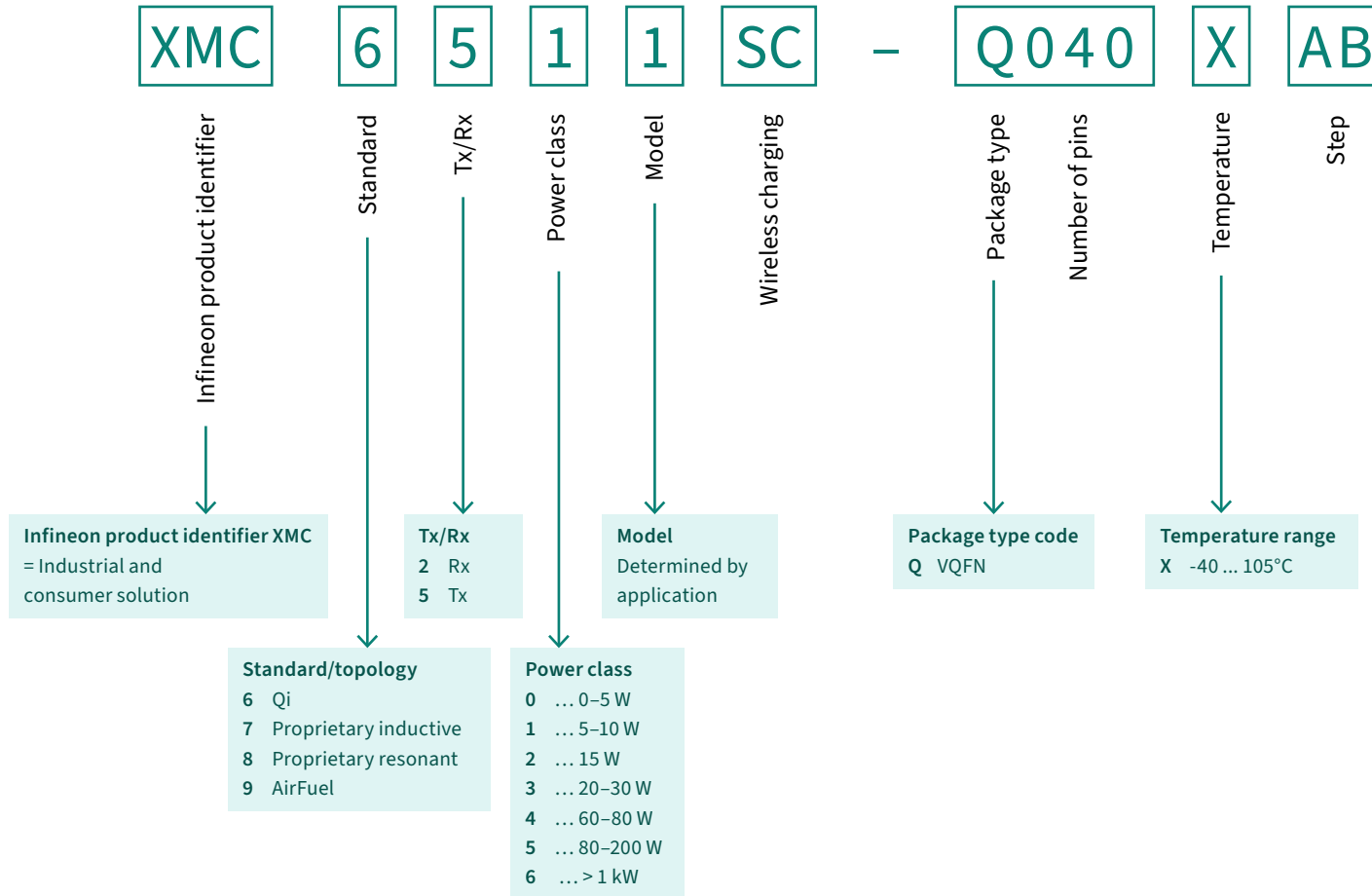
32-bit XMC™ Microcontroller – XMC4000 family

Product type/part number	Markets			Core			Co-processor			System						De-bug	Supply voltage [V]	Operating temperature range [°C]	Memory				Analog			Timer/PWM				Communication											LED display	Capacitive touch															
	Automotive	Industrial	Consumer	Package	GPIOs	Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC	PRNG				Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace	Flash	ECC	RAM	Cache	EEPROM emulation/in flash	Data/IP protection	Secure boot loader	Peripherals clock [MHz]	No. of 12-bit ADC/ No. of sample and hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8	HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®			IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller)						External Bus Unit (EBU)				
																																															# channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/PC		IIS/I2S	LIN		
XMC4200 Series																																																									
XMC4200-Q48F256	-	●	●	VQFN-48	30	Cortex®-M4	80	-	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	256	●	40	1	●	●	-	80	2/2/8	2 ch	-	8 ch	4 ch	●	-	1x	-	-	2	●	-	4 ch	●	●	●	●	●	●	●	●	●	●	-	1x 64 segment	8 ch	
XMC4200-Q48K256	-	●	●	VQFN-48	30	Cortex®-M4	80	-	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	256	●	40	1	●	●	-	80	2/2/8	2 ch	-	8 ch	4 ch	●	-	1x	-	-	2	●	-	4 ch	●	●	●	●	●	●	●	●	●	●	●	-	1x 64 segment	8 ch
XMC4200-F64F256	-	●	●	TQFP-64	45	Cortex®-M4	80	-	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	256	●	40	1	●	●	-	80	2/2/9	2 ch	-	8 ch	4 ch	●	-	1x	-	-	2	●	-	4 ch	●	●	●	●	●	●	●	●	●	●	-	1x 64 segment	8 ch	
XMC4200-F64K256	-	●	●	TQFP-64	45	Cortex®-M4	80	-	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	256	●	40	1	●	●	-	80	2/2/9	2 ch	-	8 ch	4 ch	●	-	1x	-	-	2	●	-	4 ch	●	●	●	●	●	●	●	●	●	●	-	1x 64 segment	8 ch	
XMC4300 Series																																																									
XMC4300-F100F256	-	●	-	LQFP-100	75	Cortex®-M4	144	-	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	256	●	128	8	●	●	-	144	2/2/14	2 ch	-	8 ch	4 ch	-	-	-	-	l	l	2	●	●	●	●	●	●	●	●	●	●	-	1x 64 segment	8 ch			
XMC4300-F100K256	-	●	-	LQFP-100	75	Cortex®-M4	144	-	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	256	●	128	8	●	●	-	144	2/2/14	2 ch	-	8 ch	4 ch	-	-	-	-	l	l	2	●	●	●	●	●	●	●	●	●	●	-	1x 64 segment	8 ch			
XMC4400 Series																																																									
XMC4402-F64F256	-	●	●	TQFP-64	41	Cortex®-M4	120	-	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	256	●	80	4	●	●	-	120	4/4/9	2 ch	-	16 ch	8 ch	●	4 ch	2x	-	-	2	●	-	4 ch	●	●	●	●	●	●	●	●	●	●	-	1x 64 segment	8 ch	
XMC4402-F64K256	-	●	●	TQFP-64	41	Cortex®-M4	120	-	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	256	●	80	4	●	●	-	120	4/4/9	2 ch	-	16 ch	8 ch	●	4 ch	2x	-	-	2	●	-	4 ch	●	●	●	●	●	●	●	●	●	●	-	1x 64 segment	8 ch	
XMC4402-F100F256	-	●	●	LQFP-100	75	Cortex®-M4	120	-	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	256	●	80	4	●	●	-	120	4/4/18	2 ch	-	16 ch	8 ch	●	4 ch	2x	-	-	2	●	-	4 ch	●	●	●	●	●	●	●	●	●	●	-	1x 64 segment	8 ch	
XMC4402-F100K256	-	●	●	LQFP-100	75	Cortex®-M4	120	-	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	256	●	80	4	●	●	-	120	4/4/18	2 ch	-	16 ch	8 ch	●	4 ch	2x	-	-	2	●	-	4 ch	●	●	●	●	●	●	●	●	●	●	-	1x 64 segment	8 ch	
XMC4400-F64F256	-	●	●	TQFP-64	41	Cortex®-M4	120	-	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	256	●	80	4	●	●	-	120	4/4/9	2 ch	-	16 ch	8 ch	●	4 ch	2x	-	l	2	●	-	4 ch	●	●	●	●	●	●	●	●	●	●	-	1x 64 segment	8 ch	
XMC4400-F64F512	-	●	●	TQFP-64	41	Cortex®-M4	120	-	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 85	512	●	80	4	●	●	-	120	4/4/9	2 ch	-	16 ch	8 ch	●	4 ch	2x	-	l	2	●	-	4 ch	●	●	●	●	●	●	●	●	●	●	-	1x 64 segment	8 ch	
XMC4400-F64K256	-	●	●	TQFP-64	41	Cortex®-M4	120	-	●	●	2	8 ch	1	1	●	●	●	●	●	3.13 to 3.63	-40 to 125	256	●	80	4	●	●	-	120	4/4/9	2 ch	-	16 ch	8 ch	●	4 ch	2x	-	l	2	●	-	4 ch	●	●	●	●	●	●	●	●	●	●	-	1x 64 segment	8 ch	

32-bit XMC™ Microcontroller – XMC4000 family

Product type/part number	Mar-kets				Core		Co-processor		System						De-bug	Supply voltage [V]	Operating temperature range [°C]	Memory				Analog		Timer/PWM				Communication								LED display	Capacitive touch																			
	Automotive	Industrial	Consumer	Package	GPIOs	Processor type	Core frequency [MHz]	CORDIC/DIV	DSP	FPU	ERU	DMA	MPU	CRC				PRNG	Watchdog	Real-Time Clock	SWD, SPD	JTAG, Trace	Flash	ECC	RAM	Cache	EEPROM emulation in flash	Data/IP protection	Secure bootloader	Peripherals clock [MHz]	No. of 12-bit ADC/ No. of sample and hold/ No. of inputs	12-bit DAC	Comparator	CCU4	CCU8			HRPWM (150 ps)	ΔΣ Demodulator	POSIF	BCCU/LED	EtherCAT®	IEEE1588 Ethernet MAC	CAN 2.0B nodes	USB	SDIO/SD/MMC	USIC (Universal Serial Interface Controller)						External Bus Unit (EBU)			
																																															# channels	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I²C		IIS/I²S	LIN	
XMC4500 Series																																																								
XMC4500-F100K1024	-	●	●	LQFP-100	75	Cortex®-M4	120	-	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	-40 to 125	1024	●	160	4	●	●	-	120	4/4/18	2 ch	-	16 ch	8 ch	-	4 ch	2x	-	-	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-F144F768	-	●	●	LQFP-144	119	Cortex®-M4	120	-	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	-40 to 85	768	●	160	4	●	●	-	120	4/4/26	2 ch	-	16 ch	8 ch	-	4 ch	2x	-	-	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-F144F1024	-	●	●	LQFP-144	119	Cortex®-M4	120	-	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	-40 to 85	1024	●	160	4	●	●	-	120	4/4/26	2 ch	-	16 ch	8 ch	-	4 ch	2x	-	-	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-F144K768	-	●	●	LQFP-144	119	Cortex®-M4	120	-	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	-40 to 125	768	●	160	4	●	●	-	120	4/4/26	2 ch	-	16 ch	8 ch	-	4 ch	2x	-	-	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4500-E144F1024	-	●	●	LFB-GA-144	119	Cortex®-M4	120	-	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	-40 to 85	1024	●	160	4	●	●	-	120	4/4/26	2 ch	-	16 ch	8 ch	-	4 ch	2x	-	-	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch	
XMC4500-F144K1024	-	●	●	LQFP-144	119	Cortex®-M4	120	-	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	-40 to 125	1024	●	160	4	●	●	-	120	4/4/26	2 ch	-	16 ch	8 ch	-	4 ch	2x	-	-	●	3	●	●	6 ch	●	●	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4700 Series																																																								
XMC4700-F100F1536	-	●	●	LQFP-100	75	Cortex®-M4	144	-	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	-40 to 85	1536	●	276	8	●	●	-	144	4/4/18	2 ch	-	16 ch	8 ch	-	4 ch	2x	-	-	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch	
XMC4700-F100K1536	-	●	●	LQFP-100	75	Cortex®-M4	144	-	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	-40 to 125	1536	●	276	8	●	●	-	144	4/4/18	2 ch	-	16 ch	8 ch	-	4 ch	2x	-	-	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4700-F100F2048	-	●	●	LQFP-100	75	Cortex®-M4	144	-	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	-40 to 85	2048	●	352	8	●	●	-	144	4/4/18	2 ch	-	16 ch	8 ch	-	4 ch	2x	-	-	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4700-F100K2048	-	●	●	LQFP-100	75	Cortex®-M4	144	-	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	-40 to 125	2048	●	352	8	●	●	-	144	4/4/18	2 ch	-	16 ch	8 ch	-	4 ch	2x	-	-	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4700-F144F1536	-	●	●	LQFP-144	119	Cortex®-M4	144	-	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	-40 to 85	1536	●	276	8	●	●	-	144	4/4/26	2 ch	-	16 ch	8 ch	-	4 ch	2x	-	-	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4700-F144K1536	-	●	●	LQFP-144	119	Cortex®-M4	144	-	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	40 to 125	1536	●	276	8	●	●	-	144	4/4/26	2 ch	-	16 ch	8 ch	-	4 ch	2x	-	-	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch	
XMC4700-F144F2048	-	●	●	LQFP-144	119	Cortex®-M4	144	-	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	-40 to 85	2048	●	352	8	●	●	-	144	4/4/26	2 ch	-	16 ch	8 ch	-	4 ch	2x	-	-	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch
XMC4700-F144K2048	-	●	●	LQFP-144	119	Cortex®-M4	144	-	●	●	2	12 ch	1	1	●	●	●	●	3.13 to 3.63	-40 to 125	2048	●	352	8	●	●	-	144	4/4/26	2 ch	-	16 ch	8 ch	-	4 ch	2x	-	-	●	6	●	●	6 ch	●	●	●	●	●	●	●	●	●	●	1x 64 segment	8 ch	

Wireless power controller



Wireless charging series

Product type/ partnumber	Automotive	Industrial	Consumer	Package	GPIOs	Topology	Power [W]	Transmitter	Receiver	Certification	CAN	NFC
XMC8201SC-Q024X	-	•	•	VQFN-24	-	Resonant	2.5	-	•	-	-	-
XMC8501SC-Q040X	-	•	•	VQFN-40	-	Resonant	2.5	•	-	-	CAN 2.0	SPI
XMC8231SC-Q024X	-	•	•	VQFN-24	-	Resonant	30	-	•	-	-	-
XMC8531SC-Q040X	-	•	•	VQFN-40	-	Resonant	30	•	-	-	CAN 2.0	SPI
XMC7201SC-Q024X	-	•	•	VQFN-24	-	Inductive	<5	-	•	-	-	-
XMC7501SC-Q040X	-	•	•	VQFN-40	-	Inductive	<5	•	-	-	CAN 2.0	SPI
XMC6511SC-Q040X	-	•	•	VQFN-40	-	Inductive	10	•	-	Qi-Certified	-	-
XMC6521SC-Q040X	-	•	•	VQFN-40	-	Inductive	15	•	-	Qi-Certified	-	-
XMC7231SC-Q024X	-	•	•	VQFN-24	-	Custom	30	-	•	-	-	-
XMC7531SC-Q040X	-	•	•	VQFN-40	-	Custom	30	•	-	-	-	-
XMC7234SC-Q040X	-	•	•	VQFN-41	-	Custom	30	-	•	-	-	-
XMC7533SC-Q040X	-	•	•	VQFN-42	-	Custom	30	•	-	-	-	-
XMC7241SC-Q024X	-	•	•	VQFN-43	-	Inductive	80	-	•	-	CAN 2.0	SPI
XMC7541SC-Q040X	-	•	•	VQFN-44	-	Inductive	80	•	-	-	CAN 2.0	SPI
SAK-TC212S-8F133SC	•	-	-	TQFP-80	-	Inductive	15	•	-	Qi-Certified	CAN FD	SPI

Industrial PSoC™ 4000

Product type/part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SiID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier	
PSoC™ 4000 Series																																		
CY8C4013LQI-411	●	●	-	QFN	13	Cortex®-M0	16	-	0x0A431193	8	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	Tray
CY8C4013LQI-411T	●	●	-	QFN	13	Cortex®-M0	16	-	0x0A431193	8	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	Reel
CY8C4013SXI-400	●	●	-	SOP	5	Cortex®-M0	16	-	0x0A401193	8	-	2	-	85	5.5	-40	1.7	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	Tube
CY8C4013SXI-400T	●	●	-	SOP	5	Cortex®-M0	16	-	0x0A401193	8	-	2	-	85	5.5	-40	1.7	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	Reel
CY8C4013SXI-410	●	●	-	SOP	5	Cortex®-M0	16	-	0x0A411193	8	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	Tube
CY8C4013SXI-410T	●	●	-	SOP	5	Cortex®-M0	16	-	0x0A411193	8	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	Reel
CY8C4013SXI-411	●	●	-	SOP	13	Cortex®-M0	16	-	0x0A421193	8	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	Tube
CY8C4013SXI-411T	●	●	-	SOP	13	Cortex®-M0	16	-	0x0A421193	8	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	Reel
CY8C4014FNI-421AT	●	●	●	WLCSP	13	Cortex®-M0	16	-	0x0A441193	16	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	Reel
CY8C4014LQI-412	●	●	-	QFN	20	Cortex®-M0	16	-	0x0A471193	16	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	Tray
CY8C4014LQI-412KT	●	●	-	QFN	20	Cortex®-M0	16	-	0x0A471193	16	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	Tray
CY8C4014LQI-412T	●	●	-	QFN	20	Cortex®-M0	16	-	0x0A471193	16	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	Reel
CY8C4014LQI-421	●	●	●	QFN	13	Cortex®-M0	16	-	0x0A461193	16	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	Tray
CY8C4014LQI-421T	●	●	●	QFN	13	Cortex®-M0	16	-	0x0A461193	16	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	Reel
CY8C4014LQI-422	●	●	●	QFN	20	Cortex®-M0	16	-	0x0A481193	16	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	Tray
CY8C4014LQI-422KT	●	●	●	QFN	20	Cortex®-M0	16	-	0x0A481193	16	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	Tray
CY8C4014LQI-422T	●	●	●	QFN	20	Cortex®-M0	16	-	0x0A481193	16	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	Reel
CY8C4014LQIW-412	●	●	-	QFN	20	Cortex®-M0	16	-	0x0A471193	16	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	Tray
CY8C4014LQIW-422	●	●	●	QFN	20	Cortex®-M0	16	-	0x0A481193	16	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	Tray

Industrial PSoC™ 4000

Product type / part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SiID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier		
PSoC™ 4000 Series																																			
CY8C4014PVI-412	●	●	-	SOP	20	Cortex®-M0	16	-	0x0A54119A	16	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	Tube
CY8C4014PVI-422	●	●	●	SOP	20	Cortex®-M0	16	-	0x0A55119A	16	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	Tube
CY8C4014SXI-420	●	●	●	SOP	5	Cortex®-M0	16	-	0x0A53119A	16	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	Tube
CY8C4014SXI-420T	●	●	●	SOP	5	Cortex®-M0	16	-	0x0A53119A	16	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	Reel
CY8C4014SXI-421	●	●	●	SOP	13	Cortex®-M0	16	-	0x0A441193	16	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	Tube
CY8C4014SXI-421T	●	●	●	SOP	13	Cortex®-M0	16	-	0x0A441193	16	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	Reel
CY8C4014SXIW-421	●	●	●	SOIC	13	Cortex®-M0	16	-	0x0A441193	16	-	2	-	85	5.5	-40	1.7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	Tube
PSoC™ 4000 DS-Series																																			
CY8C4045FNI-DS402T	●	●	-	WLCSP	21	Cortex®-M0	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2	4	8	-	3	-	8	-	-	-	-	-	-	-	-	Reel
CY8C4045PVI-DS402	●	●	-	SOP	24	Cortex®-M0	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2	4	8	-	3	-	8	-	-	-	-	-	-	-	-	Tube
PSoC™ 4000 S-Series																																			
CY8C4024AXI-S402	●	●	-	QFP	27	Cortex®-M0+	24	-	-	16	-	2	●	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	-	-	Tray
CY8C4024AXI-S412	●	●	●	QFP	27	Cortex®-M0+	24	-	-	16	-	2	●	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	-	-	Tray
CY8C4024AZI-S403	●	●	-	QFP	36	Cortex®-M0+	24	-	-	16	-	2	●	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	-	-	Tray
CY8C4024AZI-S403T	●	●	-	QFP	36	Cortex®-M0+	24	-	-	16	-	2	●	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	-	-	Reel
CY8C4024AZI-S413	●	●	●	QFP	36	Cortex®-M0+	24	-	-	16	-	2	●	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	-	-	Tray
CY8C4024AZI-S413T	●	●	●	QFP	36	Cortex®-M0+	24	-	-	16	-	2	●	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	-	-	Reel
CY8C4024AZQ-S413	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 1 msp/s)	-	16	-	2	●	105	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	-	PSoC™ 4	Tray
CY8C4024FNI-S402	●	●	-	WLCSP	21	Cortex®-M0+	24	-	-	16	-	2	●	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	-	-	-	-

Industrial PSoC™ 4000

Product type / part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SiID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier	
PSoC™ 4000 S-Series																																		
CY8C4024FNI-S402T	I	I	-	WLCSP	21	Cortex®-M0+	24	-	-	16	-	2	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	-	-	Reel
CY8C4024FNI-S412	I	I	I	WLCSP	21	Cortex®-M0+	24	-	-	16	-	2	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	-	-	
CY8C4024FNI-S412T	I	I	I	WLCSP	21	Cortex®-M0+	24	-	-	16	-	2	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	-	Reel	
CY8C4024LQI-S401	I	I	-	QFN	19	Cortex®-M0+	24	-	-	16	-	2	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	-	Tray	
CY8C4024LQI-S401KT	I	I	-	QFN	19	Cortex®-M0+	24	-	-	16	-	2	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	-	Tray	
CY8C4024LQI-S402	I	I	-	QFN	27	Cortex®-M0+	24	-	-	16	-	2	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	Tray	
CY8C4024LQI-S403	I	I	-	QFN	34	Cortex®-M0+	24	-	0x1914	16	-	2	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	Tray	
CY8C4024LQI-S403T	I	I	-	QFN	34	Cortex®-M0+	24	-	0x1914	16	-	2	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	Reel	
CY8C4024LQI-S411	I	I	I	QFN	19	Cortex®-M0+	24	-	-	16	-	2	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	-	Tray	
CY8C4024LQI-S412	I	I	I	QFN	27	Cortex®-M0+	24	-	-	16	-	2	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	Tray	
CY8C4024LQI-S412T	I	I	I	QFN	27	Cortex®-M0+	24	-	-	16	-	2	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	Reel	
CY8C4024LQI-S413	I	I	I	QFN	34	Cortex®-M0+	24	-	0x1915	16	-	2	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	Tray	
CY8C4024LQI-S413T	I	I	I	QFN	34	Cortex®-M0+	24	-	0x1915	16	-	2	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	Reel	
CY8C4025AXI-S402	I	I	-	QFP	27	Cortex®-M0+	24	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	Tray	
CY8C4025AXI-S412	I	I	I	QFP	27	Cortex®-M0+	24	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	Tray	
CY8C4025AZI-S403	I	I	-	QFP	36	Cortex®-M0+	24	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	Tray	
CY8C4025AZI-S403T	I	I	-	QFP	36	Cortex®-M0+	24	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	Reel	
CY8C4025AZI-S413	I	I	I	QFP	36	Cortex®-M0+	24	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	Tray	
CY8C4025AZI-S413T	I	I	I	QFP	36	Cortex®-M0+	24	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	Reel	

Industrial PSoC™ 4000

Product type/part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SiID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier
PSoC™ 4000 S-Series																																	
CY8C4025AZQ-S403	I	I	-	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 1 msp/s)	-	32	-	4	I	105	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	PSoC™ 4	-	-	Tray
CY8C4025AZQ-S413	I	I	I	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 1 msp/s)	-	32	-	4	I	105	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	PSoC™ 4	-	-	Tray
CY8C4025FNI-S402	I	I	-	WLCSP	21	Cortex®-M0+	24	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	-	
CY8C4025FNI-S402T	I	I	-	WLCSP	21	Cortex®-M0+	24	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	Reel	
CY8C4025FNI-S412	I	I	I	WLCSP	21	Cortex®-M0+	24	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	-	
CY8C4025FNI-S412T	I	I	I	WLCSP	21	Cortex®-M0+	24	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	Reel	
CY8C4025LQI-S401	I	I	-	QFN	19	Cortex®-M0+	24	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	Tray	
CY8C4025LQI-S402	I	I	-	QFN	27	Cortex®-M0+	24	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	Tray	
CY8C4025LQI-S402T	I	I	-	QFN	27	Cortex®-M0+	24	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	Reel	
CY8C4025LQI-S403	I	I	-	QFN	34	Cortex®-M0+	24	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	Tray	
CY8C4025LQI-S411	I	I	I	QFN	19	Cortex®-M0+	24	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	Tray	
CY8C4025LQI-S412	I	I	I	QFN	27	Cortex®-M0+	24	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	Tray	
CY8C4025LQI-S412T	I	I	I	QFN	27	Cortex®-M0+	24	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	Reel	
CY8C4025LQI-S413	I	I	I	QFN	34	Cortex®-M0+	24	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	Tray	
CY8C4045AZI-S413	I	I	I	QFP	36	Cortex®-M0+	48	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	Tray	
CY8C4045AZI-S413T	I	I	I	QFP	36	Cortex®-M0+	48	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	Reel	
CY8C4045FNI-S412	I	I	I	WLCSP	21	Cortex®-M0+	48	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	-	
CY8C4045FNI-S412T	I	I	I	WLCSP	21	Cortex®-M0+	48	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	Reel	
CY8C4045LQI-S411	I	I	I	QFN	19	Cortex®-M0+	48	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	Tray	

Industrial PSoC™ 4100

Product type / part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SiID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier	
PSoC™ 4000 S-Series																																		
CY8C4045LQI-S412	●	●	●	QFN	27	Cortex®-M0+	48	-	-	32	-	4	●	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4045LQI-S412T	●	●	●	QFN	27	Cortex®-M0+	48	-	-	32	-	4	●	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4045LQI-S413	●	●	●	QFN	34	Cortex®-M0+	48	-	-	32	-	4	●	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	-	Tray
PSoC™ 4100 Series																																		
CY8C4124AXI-443	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	-	-	-	-	-	-	Tray
CY8C4124AXI-443T	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	-	-	-	-	-	-	Reel
CY8C4124AXI5-443	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	-	-	-	-	-	-	Tray
CY8C4124AXQ-443	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	●	105	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	-	-	-	-	-	-	Tray
CY8C4124AZI-443	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041A1193	16	4	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	-	-	-	-	-	-	Tray
CY8C4124LQI-443	●	●	●	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041C1193	16	4	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	-	-	-	-	-	-	Tray
CY8C4124LQI-443T	●	●	●	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041C1193	16	4	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	-	-	-	-	-	-	Reel
CY8C4124LQ-443	●	●	●	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04161193	16	4	4	●	105	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	-	-	-	-	-	-	Tray
CY8C4124PVI-432	●	●	-	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04101193	16	4	4	-	85	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	-	-	-	-	-	-	Tube
CY8C4124PVI-432T	●	●	-	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04101193	16	4	4	-	85	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	-	-	-	-	-	-	Reel
CY8C4124PVI-442	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04111193	16	4	4	●	85	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	-	-	-	-	-	-	Tube
CY8C4124PVI-442T	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04111193	16	4	4	●	85	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	-	-	-	-	-	-	Reel
CY8C4124PVI5-442	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04111193	16	4	4	●	85	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	-	-	-	-	-	-	Tube
CY8C4124PVQ-432	●	●	-	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04101193	16	4	4	-	105	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	-	-	-	-	-	-	Tube
CY8C4124PVQ-442	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04111193	16	4	4	●	105	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	-	-	-	-	-	-	Tube

Industrial PSoC™ 4100

Product type/partnumber	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SiID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier		
PSoC™ 4100 Series																																			
CY8C4125AXI-473	●	●	-	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041B1193	32	4	4	-	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4125AXI-483	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04161193	32	-	4	●	85	5.5	-40	1.7	-	1	2	4	-	2	2	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4125AXI-483T	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04161193	32	-	4	●	85	5.5	-40	1.7	-	1	2	4	-	2	2	-	-	-	-	-	-	-	-	-	-	Reel
CY8C4125AXQ-473	●	●	-	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041B1193	32	4	4	-	105	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4125AXQ-483	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041C1193	32	-	4	●	105	5.5	-40	1.7	-	1	2	4	-	2	2	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4125AZI-473	●	●	-	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x041B1193	32	4	4	-	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4125AZI-483	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04261193	32	4	4	●	85	5.5	-40	1.7	-	1	2	4	-	2	2	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4125LQI-483	●	●	●	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04171193	32	-	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4125LQI-483T	●	●	●	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04171193	32	-	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	-	-	-	-	-	-	-	Reel
CY8C4125LQQ-483	●	●	●	QFN	34	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04171193	32	-	4	●	105	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4125PVI-482	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04121193	32	-	4	●	85	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	-	-	-	-	-	-	-	Tube
CY8C4125PVI-482T	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04121193	32	-	4	●	85	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	-	-	-	-	-	-	-	Reel
CY8C4125PVQ-482	●	●	●	SOP	24	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x04121193	32	-	4	●	105	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	-	-	-	-	-	-	-	Tube
CY8C4125AXI-M445	●	●	●	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1104	32	-	4	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4125AXI-M445T	●	●	●	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1104	32	-	4	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	-	Reel
CY8C4125AZI-M433	●	●	-	QFP	38	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1100	32	-	4	-	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4125AZI-M443	●	●	●	QFP	38	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1101	32	-	4	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4125AZI-M445	●	●	●	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1102	32	-	4	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4125LTI-M445	●	●	●	QFN	55	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1103	32	-	4	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	-	Tray

Industrial PSoC™ 4100

Product type / part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SWD	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier	
PSoC™ 4100 Series																																		
CY8C4126AXI-M443	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	-	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4126AXI-M443T	●	●	●	QFP	36	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	-	2	4	-	-	-	-	-	-	-	-	-	Reel
CY8C4126AXI-M445	●	●	●	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x110A	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4126AZI-M443	●	●	●	QFP	38	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1105	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4126AZI-M445	●	●	●	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1106	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4126AZI-M475	●	●	-	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1107	64	-	8	-	85	5.5	-40	1.7	-	2	2	8	8	4	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4126LTI-M445	●	●	●	QFN	55	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1108	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4126LTI-M475	●	●	-	QFN	55	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1109	64	-	8	-	85	5.5	-40	1.7	-	2	2	8	8	4	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4127AXI-M485	●	●	●	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x110E	128	-	16	●	85	5.5	-40	1.7	-	2	2	8	8	4	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4127AZI-M475	●	●	-	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x110C	128	-	16	-	85	5.5	-40	1.7	-	2	2	8	8	4	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4127AZI-M485	●	●	●	FP	51	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x110D	128	-	16	●	85	5.5	-40	1.7	-	2	2	8	8	4	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4127LTI-M475	●	●	●	QFN	55	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x110B	128	-	16	●	85	5.5	-40	1.7	-	2	2	8	8	4	4	-	-	-	-	-	-	-	-	-	Tray
CYSHM35925I-M068LTIIT	●	●	-	QFN	55	Cortex®-M0	24	SAR (1, 12-bit @ 806 ksps)	0x1111	128	-	16	●	85	5.5	-40	1.7	-	2	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Reel
PSoC™ 4100 PS-Series																																		
CY8C4125AZI-PS423	●	●	●	QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	-	4	●	85	5.5	-40	1.7	-	2	2	8	8	4	3	-	8	1	-	-	-	-	-	-	Tray
CY8C4125FNI-PS423T	●	●	●	WLCSP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	-	4	●	85	5.5	-40	1.7	-	2	2	8	8	4	3	-	8	1	-	-	-	-	-	-	Reel
CY8C4125LQI-PS423	●	●	●	QFN	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	-	4	●	85	5.5	-40	1.7	-	2	2	8	8	4	3	-	8	1	-	-	-	-	-	-	Tray
CY8C4125PVI-PS421	●	●	●	SOP	19	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	-	4	-	85	5.5	-40	1.7	-	2	2	8	8	4	3	-	8	-	-	-	-	-	-	-	Tube
CY8C4145AZI-PS423	●	●	●	QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	32	-	4	●	85	5.5	-40	1.7	-	2	2	8	8	4	3	-	8	1	-	-	-	-	-	-	Tray

Industrial PSoC™ 4100

Product type / part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SiID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier	
PSoC™ 4100 PS-Series																																		
CY8C4145AZI-PS433	●	●	●	QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	32	-	4	●	85	5.5	-40	1.7	-	2	2	8	8	4	3	-	8	1	-	-	-	-	-	-	Tray
CY8C4145FNI-PS423T	●	●	●	WLCSP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	32	-	4	●	85	5.5	-40	1.7	-	2	2	8	8	4	3	-	8	1	-	-	-	-	-	Reel	
CY8C4145FNI-PS433T	●	●	●	WLCSP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	32	-	4	●	85	5.5	-40	1.7	-	2	2	8	8	4	3	-	8	1	-	-	-	-	-	Reel	
CY8C4145FNQ-PS423T	●	●	●	WLCSP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	32	-	4	●	105	5.5	-40	1.7	-	2	2	8	8	4	3	-	8	1	-	-	-	-	-	Reel	
CY8C4145FNQ-PS433T	●	●	●	WLCSP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	32	-	4	●	85	5.5	-40	1.7	-	2	2	8	8	4	3	-	8	1	-	-	-	-	-	Reel	
CY8C4145LQI-PS423	●	●	●	QFN	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	32	-	4	●	85	5.5	-40	1.7	-	2	2	8	8	4	3	-	8	1	-	-	-	-	-	Tray	
CY8C4145LQI-PS433	●	●	●	QFN	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	32	-	4	●	85	5.5	-40	1.7	-	2	2	8	8	4	3	-	8	1	-	-	-	-	-	Tray	
CY8C4145PVI-PS421	●	●	●	SOP	19	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	32	-	4	-	85	5.5	-40	1.7	-	2	2	8	8	4	3	-	8	-	-	-	-	-	-	Tube	
CY8C4145PVI-PS431	●	●	●	SOP	19	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	32	-	4	-	85	5.5	-40	1.7	-	2	2	8	8	4	3	-	8	-	-	-	-	-	-	Tube	
CY8C4724FNI-S402T	●	●	-	WLCSP	21	Cortex®-M0+	24	-	-	16	-	2	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	-	-	-	-	-	-	-	Reel	
CY8C4724LQI-S401	●	●	-	QFN	19	Cortex®-M0+	24	-	-	16	-	2	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	-	-	-	-	-	-	-	Tray	
CY8C4725FNI-S402T	●	●	-	WLCSP	21	Cortex®-M0+	24	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	-	-	-	-	-	-	-	Reel	
CY8C4725LQI-S401	●	●	-	QFN	19	Cortex®-M0+	24	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	-	-	-	-	-	-	-	Tray	
CY8C4744AZI-S403	●	●	-	QFP	36	Cortex®-M0+	48	-	-	32	-	2	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	-	-	-	-	-	-	-	Tray	
CY8C4744FNI-S402T	●	●	-	WLCSP	21	Cortex®-M0+	48	-	-	16	-	2	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	-	-	-	-	-	-	-	Reel	
CY8C4744LQI-S401	●	●	-	QFN	19	Cortex®-M0+	48	-	-	16	-	2	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	-	-	-	-	-	-	-	Tray	
CY8C4745AZI-S403	●	●	-	QFP	36	Cortex®-M0+	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	-	Tray	
CY8C4745AZI-S413	●	●	●	QFP	36	Cortex®-M0+	48	-	-	32	-	4	I	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	Tray	
CY8C4745FNI-S402T	●	●	-	WLCSP	21	Cortex®-M0+	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	-	Reel	

Industrial PSoC™ 4100

Product type / part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SiID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier	
PSoC™ 4100 PS-Series																																		
CY8C4745FNI-S412T	●	●	●	WLCSP	21	Cortex®-M0+	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	-	-	-	-	-	-	-	-	Reel
CY8C4745LQI-S401	●	●	-	QFN	19	Cortex®-M0+	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	-	-	-	-	-	-	-	-	Tray
CY8C4745LQI-S411	●	●	●	QFN	19	Cortex®-M0+	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	-	-	Tray
PSoC™ 4100 S-Series																																		
CY8C4124AZI-S413	●	●	●	QFP	36	Cortex®-M0+	24	-	-	16	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4124AZI-S413T	●	●	●	QFP	36	Cortex®-M0+	24	-	-	16	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4124AZI-S433	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	16	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4124AZI-S433T	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	16	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4124FNI-S403	●	●	-	WLCSP	31	Cortex®-M0+	24	-	-	16	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	8	-	-	-	-	-	-	-	-
CY8C4124FNI-S403T	●	●	-	WLCSP	31	Cortex®-M0+	24	-	-	16	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	8	-	-	-	-	-	-	-	Reel
CY8C4124FNI-S413	●	●	●	WLCSP	31	Cortex®-M0+	24	-	-	16	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	-
CY8C4124FNI-S413T	●	●	●	WLCSP	31	Cortex®-M0+	24	-	-	16	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4124FNI-S433	l	l	l	WLCSP	31	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	16	4	l	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	-	-
CY8C4124FNI-S433T	l	l	l	WLCSP	31	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	16	-	4	l	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4124LQI-S412	l	l	l	QFN	27	Cortex®-M0+	24	-	-	16	-	4	l	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4124LQI-S412T	l	l	l	QFN	27	Cortex®-M0+	24	-	-	16	-	4	l	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4124LQI-S413	l	l	l	QFN	34	Cortex®-M0+	24	-	-	16	-	4	l	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4124LQI-S413T	l	l	l	QFN	34	Cortex®-M0+	24	-	-	16	-	4	l	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4124LQI-S432	l	l	l	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	16	-	4	l	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray

Industrial PSoC™ 4100

Product type / part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SVID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier	
PSoC™ 4100 S-Series																																		
CY8C4124LQI-S432T	•	•	•	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	16	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4124LQI-S433	•	•	•	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	16	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4124LQI-S433T	•	•	•	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	16	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4125AXI-S423	•	•	-	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4125AXI-S433	•	•	•	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4125AZI-S413	•	•	•	QFP	36	Cortex®-M0+	24	-	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4125AZI-S413T	•	•	•	QFP	36	Cortex®-M0+	24	-	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4125AZI-S423	•	•	-	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4125AZI-S423T	•	•	-	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4125AZI-S433	•	•	•	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4125AZI-S433KT	•	•	•	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4125AZI-S433T	•	•	•	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4125AZQ-S433	•	•	•	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	105	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4125FNI-S413	•	•	•	WLCSP	31	Cortex®-M0+	24	-	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	-
CY8C4125FNI-S413T	•	•	•	WLCSP	31	Cortex®-M0+	24	-	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4125FNI-S423	•	•	-	WLCSP	31	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	-
CY8C4125FNI-S423T	•	•	-	WLCSP	31	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4125FNI-S433	•	•	•	WLCSP	31	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	-
CY8C4125FNI-S433T	•	•	•	WLCSP	31	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel

Industrial PSoC™ 4100

Product type / part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SiID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier	
PSoC™ 4100 S-Series																																		
CY8C4125LQI-S412	●	●	●	QFN	27	Cortex®-M0+	24	-	-	32	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4125LQI-S412T	●	●	●	QFN	27	Cortex®-M0+	24	-	-	32	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4125LQI-S413	●	●	●	QFN	34	Cortex®-M0+	24	-	-	32	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4125LQI-S413KG	●	●	●	QFN	34	Cortex®-M0+	24	-	-	32	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4125LQI-S413T	●	●	●	QFN	34	Cortex®-M0+	24	-	-	32	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4125LQI-S422	●	●	-	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4125LQI-S422T	●	●	-	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4125LQI-S423	●	●	-	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4125LQI-S423T	●	●	-	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4125LQI-S432	●	●	●	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4125LQI-S432T	●	●	●	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4125LQI-S433	●	●	●	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Tray
CY8C4125LQI-S433T	●	●	●	QFN	34	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	●	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel
CY8C4125LQQ-S432	●	●	●	QFN	27	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	32	-	4	●	105	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	PSoC™ 4	-	-	-	Tray
CY8C4126AXI-S423	●	●	-	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	Tray
CY8C4126AXI-S433	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	Tray
CY8C4126AXI-S443	●	●	-	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4126AXI-S445	●	●	-	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4126AXI-S453	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray

Industrial PSoC™ 4100

Product type / part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SVID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier	
PSoC™ 4100 S-Series																																		
CY8C4126AXI-S455	●	●	●	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4126AXQ-S433	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	●	105	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	PSoC™ 4	-	-	Tray
CY8C4126AZI-S423	●	●	-	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	Tray
CY8C4126AZI-S423T	●	●	-	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	Reel
CY8C4126AZI-S433	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	Tray
CY8C4126AZI-S433T	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	Reel
CY8C4126AZI-S445	●	●	-	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4126AZI-S455	●	●	●	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4126AZQ-S423	●	●	-	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	●	105	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	Tray
CY8C4126AZQ-S433	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	64	-	8	●	105	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	Tray
CY8C4127AXI-S443	●	●	-	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	128	-	16	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4127AXI-S445	●	●	-	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	128	-	16	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4127AXI-S453	●	●	●	QFP	36	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	128	-	16	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4127AXI-S455	●	●	●	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msps)	-	128	-	16	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4127AZI-S443	●	●	-	QFP	38	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	128	-	16	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4127AZI-S445	●	●	-	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	128	-	16	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4127AZI-S453	●	●	-	QFP	38	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	128	-	16	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4127AZI-S455	●	●	●	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	128	-	16	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4127AZQ-S445	●	●	-	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	128	-	16	●	105	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray

Industrial PSoC™ 4100

Product type / part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SVID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier		
PSoC™ 4100 S-Series																																			
CY8C4127AZQ-S455	•	•	•	FP	54	Cortex®-M0+	24	SAR (1, 12-bit @ 806 ksps)	-	128	-	16	•	105	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray	
CY8C4145AXI-S423	•	•	-	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	Tray	
CY8C4145AXI-S433	•	•	•	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	Tray	
CY8C4145AXQ-S433	•	•	•	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	32	-	4	•	105	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	PSoC™ 4	-	-	-	Tray
CY8C4145AZI-S423	•	•	-	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	Tray	
CY8C4145AZI-S423T	•	•	-	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	32	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel	
CY8C4145AZQ-S433	•	•	•	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	32	-	4	•	105	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	Tray	
CY8C4146AXI-S423	•	•	-	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	•	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	Tray	
CY8C4146AXI-S433	•	•	•	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	•	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	Tray	
CY8C4146AXI-S443	•	•	-	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	•	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray	
CY8C4146AXI-S445	•	•	-	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	•	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray	
CY8C4146AXI-S453	•	•	•	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	•	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray	
CY8C4146AXI-S455	•	•	•	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	•	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray	
CY8C4146AXQ-S423	•	•	-	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	•	105	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	PSoC™ 4	-	-	-	Tray
CY8C4146AXQ-S433	•	•	•	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	•	105	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	PSoC™ 4	-	-	-	Tray
CY8C4146AZI-S423	•	•	-	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	•	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	Tray	
CY8C4146AZI-S423T	•	•	-	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel	
CY8C4146AZI-S433	•	•	•	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	•	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	Tray	
CY8C4146AZI-S433T	•	•	•	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	4	•	85	5.5	-40	1.7	-	1	2	5	-	2	2	-	16	-	-	-	-	-	-	-	Reel	

Industrial PSoC™ 4100

Product type/part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SiID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier		
PSoC™ 4100 S-Series																																			
CY8C4146AZI-S445	●	●	-	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4146AZI-S453	●	●	●	QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4146AZI-S455	●	●	●	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4146AZI-S463	●	●	-	QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	85	5.5	-40	1.7	1	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4146AZQ-S423	●	●	-	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	105	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	-	Tray
CY8C4146AZQ-S433	●	●	●	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	105	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	-	Tray
CY8C4146AZQ-S445	●	●	-	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	105	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4146AZQ-S455	●	●	●	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	105	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4146FNI-S423	●	●	-	WLCSP	31	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	-	-
CY8C4146FNI-S423T	●	●	-	WLCSP	31	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	-	Reel
CY8C4146FNI-S433	●	●	●	WLCSP	31	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	-	-
CY8C4146FNI-S433T	●	●	●	WLCSP	31	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	-	Reel
CY8C4146FNI-S443T	●	●	●	WLCSP	31	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	-	Reel
CY8C4146LQI-S422	●	●	-	QFN	27	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	-	Tray
CY8C4146LQI-S422T	●	●	-	QFN	27	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	-	Reel
CY8C4146LQI-S423	●	●	-	QFN	34	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	-	Tray
CY8C4146LQI-S423T	●	●	-	QFN	34	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	-	Reel
CY8C4146LQI-S432	●	●	●	QFN	27	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	-	Tray
CY8C4146LQI-S432T	●	●	●	QFN	27	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	-	Reel

Industrial PSoC™ 4100

Product type / part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SiID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier	
PSoC™ 4100 S-Series																																		
CY8C4146LQI-S433	•	•	•	QFN	34	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	•	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	Tray
CY8C4146LQI-S433T	•	•	•	QFN	34	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	•	85	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	-	-	-	-	Reel
CY8C4146LQ-Q-S422	•	•	-	QFN	27	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	•	105	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	PSoC™ 4	-	-	-	Tray
CY8C4146LQ-Q-S432	•	•	•	QFN	27	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	•	105	5.5	-40	1.7	-	1	2	5	-	2	3	-	16	-	-	-	PSoC™ 4	-	-	-	Tray
CY8C4147AXI-S443	•	•	-	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	•	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4147AXI-S445	•	•	-	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	•	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4147AXI-S453	•	•	•	QFP	36	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	•	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4147AXI-S455	•	•	•	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	•	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4147AXI-S465	•	•	-	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	•	85	5.5	-40	1.7	1	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4147AXI-S475	•	•	•	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	•	85	5.5	-40	1.7	1	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4147AZI-S443	•	•	-	QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	•	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4147AZI-S445	•	•	-	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	•	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4147AZI-S453	•	•	•	QFP	38	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	•	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4147AZI-S455	•	•	•	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	•	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4147AZI-S465	•	•	-	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	•	85	5.5	-40	1.7	1	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4147AZI-S475	•	•	•	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	•	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4147AZQ-S445	•	•	-	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	•	105	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4147AZQ-S455	•	•	•	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	•	105	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4147AZQ-S465	•	•	-	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	•	105	5.5	-40	1.7	1	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray
CY8C4147AZQ-S475	•	•	•	FP	54	Cortex®-M0+	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	•	105	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	-	-	-	-	-	-	Tray

Industrial PSoC™ 4200

Product type / part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SiID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier			
PSoC™ 4200 Series																																				
CY8C4244AXQ-443	●	●	●	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04FA1193	16	4	4	●	105	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	2	-	-	-	-	-	-	Tray	
CY8C4244AZI-443	●	●	●	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04DA1193	16	4	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	2	-	-	-	-	-	-	Tray	
CY8C4244FNI-443T	●	●	●	WLCSP	31	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	-	16	4	4	●	85	5.5	-40	1.7	-	1	2	4	-	2	2	-	-	-	2	-	-	-	-	-	-	Reel	
CY8C4244LQI-443	●	●	●	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04F61193	16	4	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	2	-	-	-	-	-	-	-	Tray
CY8C4244LQ-443	●	●	●	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04F61193	16	4	4	●	105	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	2	-	-	-	-	-	-	-	Tray
CY8C4244PVI-442	●	●	●	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04F11193	16	4	4	●	85	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	2	-	-	-	-	-	-	-	Tube
CY8C4244PVQ-432	●	●	-	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04F01193	16	4	4	-	105	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	2	-	-	-	-	-	-	-	Tube
CY8C4244PVQ-442	●	●	●	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04F11193	16	4	4	●	105	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	2	-	-	-	-	-	-	-	Tube
CY8C4245AXI-473	●	●	-	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04FB1193	32	4	4	-	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Tray
CY8C4245AXI-483	●	●	●	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04C81193	32	-	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Tray
CY8C4245AXQ-473	●	●	-	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04FB1193	32	4	4	-	105	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Tray
CY8C4245AXQ-483	●	●	●	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04C81193	32	-	4	●	105	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Tray
CY8C4245AZI-473	●	●	-	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04DB1193	32	4	4	-	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Tray
CY8C4245AZI-483	●	●	●	QFP	36	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04C81193	32	-	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Tray
CY8C4245FNI-483T	●	●	●	WLCSP	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04E81193	32	-	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Reel
CY8C4245LQI-483	●	●	●	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04B61193	32	-	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Tray
CY8C4245LQI-483T	●	●	●	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04B61193	32	-	4	●	85	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Reel
CY8C4245LQ-483	●	●	●	QFN	34	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04B61193	32	-	4	●	105	5.5	-40	1.7	-	2	2	4	-	2	2	-	-	-	4	-	-	-	-	-	-	-	Tray
CY8C4245PVI-482	●	●	●	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04A61193	32	-	4	●	85	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	4	-	-	-	-	-	-	-	Tube
CY8C4245PVQ-482	●	●	●	SOP	24	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x04A61193	32	-	4	●	105	5.5	-40	1.7	-	1	2	4	-	1	2	-	-	-	4	-	-	-	-	-	-	-	Tube

Industrial PSoC™ 4200

Product type / part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SiID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier	
PSoC™ 4200 DS-Series																																		
CY8C4245FNI-DS402T	●	●	-	WLCSP	21	Cortex®-M0	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2	4	8	-	3	-	-	-	4	-	-	-	-	-	Reel
CY8C4246FNI-DS402T	●	●	-	WLCSP	21	Cortex®-M0	48	-	-	64	-	8	-	85	5.5	-40	1.7	-	-	2	4	8	-	3	-	-	-	4	-	-	-	-	-	Reel
PSoC™ 4200 L-Series																																		
CY8C4246AZI-L423	●	●	●	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100211A0	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	32	2	3	2	-	-	8	-	-	●	-	-	Tray
CY8C4246AZI-L423T	●	●	●	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100211A0	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	32	2	3	2	-	-	8	-	-	●	-	-	Reel
CY8C4246AZI-L433	●	●	-	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100011A0	64	-	8	-	85	5.5	-40	1.7	-	1	2	8	32	2	3	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	-	Tray
CY8C4246AZI-L433T	●	●	-	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100011A0	64	-	8	-	85	5.5	-40	1.7	-	1	2	8	32	2	3	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	-	Reel
CY8C4246AZI-L435	●	●	-	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100111A0	64	-	8	-	85	5.5	-40	1.7	-	1	2	8	32	2	4	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	-	Tray
CY8C4246AZI-L445	●	●	●	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100311A0	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	32	2	4	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	-	Tray
CY8C4246LTI-L445	●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100411A0	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	32	2	4	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	-	Tray
CY8C4247AZI-L423	●	●	●	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100511A0	128	-	16	●	85	5.5	-40	1.7	-	1	2	8	32	2	3	2	-	-	8	-	-	●	-	-	Tray
CY8C4247AZI-L423T	●	●	●	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100511A0	128	-	16	●	85	5.5	-40	1.7	-	1	2	8	32	2	3	2	-	-	8	-	-	●	-	-	Reel
CY8C4247AZI-L433	●	●	-	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x101511A0	128	-	16	-	85	5.5	-40	1.7	-	1	2	8	32	2	3	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	-	Tray
CY8C4247AZI-L433T	●	●	-	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x101511A0	128	-	16	-	85	5.5	-40	1.7	-	1	2	8	32	2	3	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	-	Reel
CY8C4247AZI-L445	●	●	●	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100611A0	128	-	16	●	85	5.5	-40	1.7	-	1	2	8	32	2	4	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	-	Tray
CY8C4247AZI-L475	●	●	●	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100811A0	128	-	16	-	85	5.5	-40	1.7	-	2	2	8	32	4	4	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	-	Tray
CY8C4247AZI-L485	●	●	●	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100B11A0	128	-	16	●	85	5.5	-40	1.7	2	2	2	8	32	4	4	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	-	Tray
CY8C4247BZI-L479	●	●	●	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100A11A0	128	-	16	-	85	5.5	-40	1.7	-	4	2	8	32	4	2	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	-	Tray
CY8C4247BZI-L479T	●	●	●	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100A11A0	128	-	16	-	85	5.5	-40	1.7	-	4	2	8	32	4	2	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	-	Reel

Industrial PSoC™ 4200

Product type / part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SWD	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier		
PSoC™ 4200 L-Series																																			
CY8C4247BZI-L489	●	●	●	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100D11A0	128	-	16	●	85	5.5	-40	1.7	2	4	2	8	32	4	2	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	Tray		
CY8C4247LTI-L445	●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100711A0	128	-	16	●	85	5.5	-40	1.7	-	1	2	8	32	2	4	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	Tray		
CY8C4247LTI-L475	●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100911A0	128	-	16	-	85	5.5	-40	1.7	-	2	2	8	32	4	4	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	Tray		
CY8C4247LTI-L485	●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100C11A0	128	-	16	●	85	5.5	-40	1.7	2	2	2	8	32	4	4	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	Tray		
CY8C4248AZI-L475	●	●	●	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100E11A0	256	-	32	-	85	5.5	-40	1.7	-	2	2	8	32	4	4	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	Tray		
CY8C4248AZI-L485	●	●	●	FP	53	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x101111A0	256	-	32	●	85	5.5	-40	1.7	2	2	2	8	32	4	4	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	Tray		
CY8C4248BZI-L469	●	●	-	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x101711A0	256	-	32	●	85	5.5	-40	1.7	-	4	2	8	32	4	4	2	-	-	8	-	-	●	-	Tray		
CY8C4248BZI-L479	●	●	●	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x101011A0	256	-	32	-	85	5.5	-40	1.7	-	4	2	8	32	4	2	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	Tray		
CY8C4248BZI-L489	●	●	●	BGA	98	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x101311A0	256	-	32	●	85	5.5	-40	1.7	2	4	2	8	32	4	2	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	Tray		
CY8C4248LTI-L475	●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x100F11A0	256	-	32	-	85	5.5	-40	1.7	-	2	2	8	32	4	4	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	Tray		
CY8C4248LTI-L485	●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x101211A0	256	-	32	●	85	5.5	-40	1.7	2	2	2	8	32	4	4	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	Tray		
CY8C4248LTQ-L485	●	●	●	QFN	57	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x101211A0	256	-	32	●	85	5.5	-40	1.7	2	2	2	8	32	4	4	2	-	-	8	2	-	●	USB 2.0 full-speed client contr.	Tray		
PSoC™ 4200 M-Series																																			
CY8C4245AXI-M445	●	●	●	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x1124	32	-	4	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4245AZI-M433	●	●	-	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x1120	32	-	4	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4245AZI-M443	●	●	●	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x1121	32	-	4	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4245AZI-M445	●	●	●	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x1122	32	-	4	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4245LTI-DM405	●	●	-	QFN	55	Cortex®-M0	48	-	0x1123	32	-	4	-	85	5.5	-40	1.7	-	-	2	8	8	-	4	-	-	-	4	-	-	-	-	-	Tray	
CY8C4245LTI-DM405T	●	●	-	QFN	55	Cortex®-M0	48	-	0x1123	32	-	4	-	85	5.5	-40	1.7	-	-	2	8	8	-	4	-	-	-	4	-	-	-	-	-	Reel	

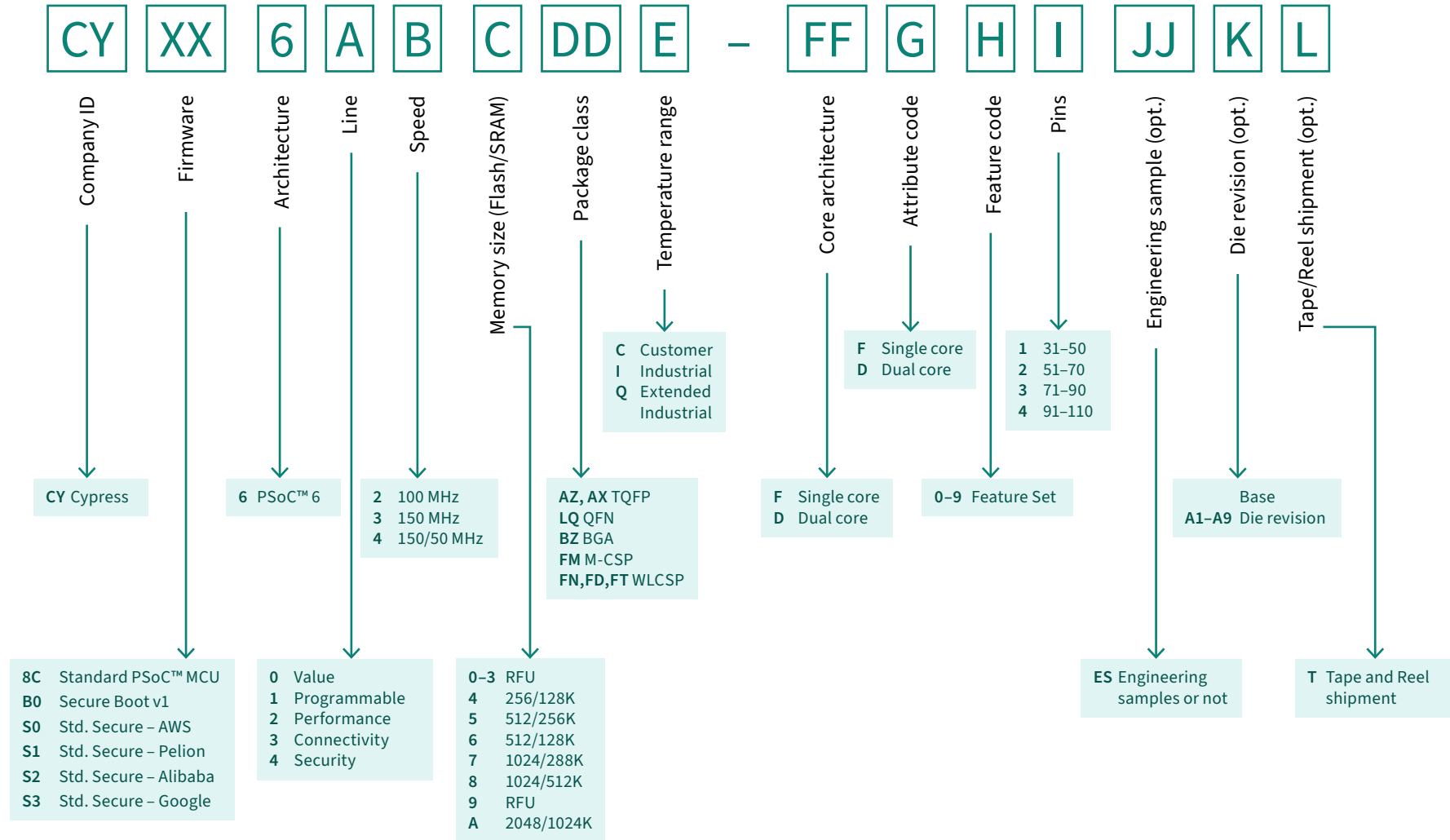
Industrial PSoC™ 4200

Product type / part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SWD	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier		
PSoC™ 4200 M-Series																																			
CY8C4245LTI-M445	●	●	●	QFN	55	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x1123	32	-	4	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4246AXI-M445	●	●	●	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x112A	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4245AZI-M443	●	●	●	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x1121	32	-	4	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4246AZI-M445	●	●	●	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x1126	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4246AZI-M475	●	●	-	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x1127	64	-	8	-	85	5.5	-40	1.7	-	2	2	8	8	4	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4246AZQ-M443	●	●	●	QFP	38	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	-	64	-	8	●	105	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4246LTI-DM405	●	●	-	QFN	55	Cortex®-M0	48	-	0x1128	64	-	8	-	85	5.5	-40	1.7	-	-	2	8	8	-	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4246LTI-M445	●	●	●	QFN	55	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x1128	64	-	8	●	85	5.5	-40	1.7	-	1	2	8	8	2	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4246LTI-M475	●	●	-	QFN	55	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x1129	64	-	8	-	85	5.5	-40	1.7	-	2	2	8	8	4	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4247AXI-M485	●	●	●	FP	48	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x112E	128	-	16	●	85	5.5	-40	1.7	2	2	2	8	-	4	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4247AXQ-M485	●	●	●	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	●	85	5.5	-40	1.7	2	2	2	8	8	4	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4247AZI-M475	●	●	-	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x112C	128	-	16	-	85	5.5	-40	1.7	-	2	2	8	8	4	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4247AZI-M475T	●	●	-	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	0x112C	128	-	16	-	85	5.5	-40	1.7	-	2	2	8	8	4	4	-	-	-	4	-	-	-	-	-	-	Reel
CY8C4247AZI-M485	●	●	●	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 806 ksps)	0x112D	128	-	16	●	85	5.5	-40	1.7	2	2	2	8	8	4	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4247AZQ-M485	●	●	●	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	●	105	5.5	-40	1.7	2	2	2	8	8	4	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4247AZQ-M485T	●	●	●	FP	51	Cortex®-M0	48	SAR (1, 12-bit @ 1 msp/s)	-	128	-	16	●	105	5.5	-40	1.7	2	2	2	8	8	4	4	-	-	-	4	-	-	-	-	-	-	Reel
CY8C4247LTI-M475	●	●	●	QFN	48	Cortex®-M0	48	SAR (1, 12-bit @ 806 ksps)	0x112B	128	-	16	●	85	5.5	-40	1.7	-	2	2	8	8	4	4	-	-	-	4	-	-	-	-	-	-	Tray
CY8C4247LTQ-M475	●	●	-	QFN	48	Cortex®-M0	48	SAR (1, 12-bit @ 806 ksps)	0x112B	128	-	16	-	85	5.5	-40	1.7	-	2	2	8	8	4	4	-	-	-	4	-	-	-	-	-	-	Tray

Industrial PSoC™ 4700

Product type / part number	Industrial	Consumer	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Dedicated ADC (# Max Resolution @ Sample rate)	JTAG and SIID	Flash [KB]	EEPROM [KB]	SRAM [KB]	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Continuous time blocks	# Dedicated comparators	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Op Amps	# Serial communication blocks	# SIO	# Smart I/Os	# Universal analog blocks	# Universal digital blocks	# USB IO	Part family	PLL	USB (type)	Package carrier		
PSoC™ 4700 S-Series																																			
CY8C4724FNI-S402T	●	●	-	WLCSP	21	Cortex®-M0+	24	-	-	16	-	2	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	-	-	-	-	-	-	-	-	-	Reel
CY8C4724LQI-S401	●	●	-	QFN	19	Cortex®-M0+	24	-	-	16	-	2	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4725FNI-S402T	●	●	-	WLCSP	21	Cortex®-M0+	24	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	-	-	-	-	-	-	-	-	-	Reel
CY8C4725LQI-S401	●	●	-	QFN	19	Cortex®-M0+	24	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4744AZI-S403	●	●	-	QFP	36	Cortex®-M0+	48	-	-	32	-	2	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4744FNI-S402T	●	●	-	WLCSP	21	Cortex®-M0+	48	-	-	16	-	2	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	-	-	-	-	-	-	-	-	-	Reel
CY8C4744LQI-S401	●	●	-	QFN	19	Cortex®-M0+	48	-	-	16	-	2	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4745AZI-S403	●	●	-	QFP	36	Cortex®-M0+	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	-	-	-	Tray
CY8C4745AZI-S413	●	●	●	QFP	36	Cortex®-M0+	48	-	-	32	-	4	●	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	16	-	-	-	-	-	-	-	-	Tray
CY8C4745FNI-S402T	●	●	-	WLCSP	21	Cortex®-M0+	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	-	-	-	Reel
CY8C4745FNI-S412T	●	●	●	WLCSP	21	Cortex®-M0+	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	-	-	-	-	-	-	-	-	-	Reel
CY8C4745LQI-S401	●	●	-	QFN	19	Cortex®-M0+	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	-	-	-	-	-	-	-	-	-	Tray
CY8C4745LQI-S411	●	●	●	QFN	19	Cortex®-M0+	48	-	-	32	-	4	-	85	5.5	-40	1.7	-	-	2	5	-	-	2	-	8	-	-	-	-	-	-	-	-	Tray

Industrial PSoC™ 6



Industrial PSoC™ 6

Product type/partnumber	Industrial Consumer	BLE Maximum Data Rate [Mbps]	BLE Power Output [dBm]	BLE RX Sensitivity [dBm]	BLE Supported Frequency band [GHz]	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	I ² S	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	# Serial communication blocks (I ² C, UART, SPI)	PDM-PCM	Quad-SPI	Smart I/O	FS-USB	Package carrier
PSoC™ 61 Series																																		
CY8C6136F-TI-F42T	•	•	-	-	-	•	WLC-SP	-	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksp/s)	512	128	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	Dual host and device	Reel
CY8C6145A-ZI-S3F42	•	•	-	-	-	•	QFP	64	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	•	85	3.6	-40	1.7	-	2	-	12	2	-	6	-	•	8	Dual host and device	Tray
CY8C6145A-ZI-S3F12	•	•	-	-	-	•	QFP	64	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	•	85	3.6	-40	1.7	-	2	-	12	2	-	6	-	•	8	Dual host and device	Tray
CY8C6145A-ZI-S3F62	•	•	-	-	-	-	QFP	64	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	•	85	3.6	-40	1.7	1	2	-	12	2	-	6	-	•	8	Dual host and device	Tray
CY8C614AA-ZI-S2F14	•	•	-	-	-	•	QFP	102	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msp/s)	-	2048	1024	2	•	85	3.6	-40	1.7	-	2	-	32	62	-	12	2	•	16	Dual host and device	Tray
CY8C6145A-ZI-S3F02	•	•	-	-	-	-	QFP	64	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	•	85	3.6	-40	1.7	-	2	-	12	2	-	6	-	•	8	Dual host and device	Tray
CY8C614AB-ZI-S2F44	•	•	-	-	-	•	BGA	102	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	2048	1024	2	•	85	3.6	-40	1.7	-	2	-	32	3	-	13	2	•	16	Dual host and device	Tray
CY8C614AA-ZI-S2F04	•	•	-	-	-	-	QFP	102	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msp/s)	-	2048	1024	2	•	85	3.6	-40	1.7	-	2	-	32	62	-	13	2	•	16	Dual host and device	Tray
CY8C6145L-QI-S3F62	•	•	-	-	-	-	QFN	53	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	•	85	3.6	-40	1.7	1	2	-	12	2	-	6	-	•	8	Dual host and device	Tray
CY8C6145L-QI-S3F72	•	•	-	-	-	•	QFN	53	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	•	85	3.6	-40	1.7	1	2	-	12	2	-	6	-	•	8	Dual host and device	Tray
CY8C6148B-ZI-S2F44	•	•	-	-	-	•	BGA	102	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	1024	512	2	•	85	3.6	-40	1.7	-	2	-	32	3	-	13	2	•	16	Dual host and device	Tray
CY8C6145L-QI-S3F02	•	•	-	-	-	-	QFN	53	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	•	85	3.6	-40	1.7	-	2	-	12	2	-	6	-	•	8	Dual host and device	Tray
CY8C6145L-QI-S3F12	•	•	-	-	-	•	QFN	53	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	•	85	3.6	-40	1.7	-	2	-	12	2	-	6	-	•	8	Dual host and device	Tray
CY8C614AF-NI-S2F43T	•	•	-	-	-	•	WLC-SP	82	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	2048	1024	2	•	85	3.6	-40	1.7	-	2	-	32	3	-	13	2	•	16	Dual host and device	Reel

Industrial PSoC™ 6

Product type/partnumber	Industrial	Consumer	BLE Maximum Data Rate [Mbps]	BLE Power Output [dBm]	BLE RX Sensitivity [dBm]	BLE Supported Frequency band [GHz]	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	I ² S	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	# Serial communication blocks (I ² C, UART, SPI)	PDM-PCM	Quad-SPI	Smart I/O	FS-USB	Package carrier
PSoC™ 61 Series																																			
CY8C6148A-ZI-S2F44	•	•	-	-	-	-	•	QFP	102	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	1024	512	2	•	85	3.6	-40	1.7	-	2	-	32	62	-	13	2	•	16	Dual host and device	Tray
CY8C6148F-NI-S2F43T	•	•	-	-	-	-	•	WLC-SP	82	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	1024	512	2	•	85	3.6	-40	1.7	-	2	-	32	3	-	13	2	•	16	Dual host and device	Reel
CY8C614AF-NI-S2F03T	•	•	-	-	-	-	-	WLC-SP	82	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msp/s)	-	2048	1024	2	•	85	3.6	-40	1.7	-	2	-	32	3	-	13	2	•	16	Dual host and device	Reel
CY8C614AB-ZI-S2F04	•	•	-	-	-	-	-	BGA	102	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msp/s)	-	2048	1024	2	•	85	3.6	-40	1.7	-	2	-	32	3	-	13	2	•	16	Dual host and device	Tray
CY8C6145L-QI-S3F42	•	•	-	-	-	-	•	QFN	53	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	•	85	3.6	-40	1.7	-	2	-	12	2	-	6	-	•	8	Dual host and device	Tray
CY8C6136B-ZI-F14	•	•	-	-	-	-	•	BGA	104	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksp/s)	512	128	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	-	•	16	Dual host and device	Tray
CY8C6137B-ZI-F54	•	•	-	-	-	-	•	BGA	104	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksp/s)	1024	288	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	-	•	16	Dual host and device	Tray
CY8C6117B-ZI-F34	•	•	-	-	-	-	•	BGA	104	Cortex®-M4	50	-	-	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksp/s)	1024	288	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	-	•	16	Dual host and device	Tray
CY8C6116B-ZI-F54	•	•	-	-	-	-	•	BGA	104	Cortex®-M4	50	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksp/s)	512	128	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	-	•	16	Dual host and device	Tray
CY8C6117B-ZI-F34T	•	•	-	-	-	-	•	BGA	104	Cortex®-M4	50	-	-	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksp/s)	1024	288	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	Dual host and device	Reel
CY8C6145F-NI-S3F41T	•	•	-	-	-	-	•	WLC-SP	37	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	•	85	3.6	-40	1.7	-	2	-	12	2	-	6	-	•	8	-	Reel
CY8C6145F-NI-S3F71T	•	•	-	-	-	-	•	WLC-SP	37	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	•	85	3.6	-40	1.7	1	2	-	12	2	-	6	-	•	8	-	Reel
CY8C6145F-NI-S3F11T	•	•	-	-	-	-	•	WLC-SP	37	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	•	85	3.6	-40	1.7	-	2	-	12	2	-	6	-	•	8	-	Reel
CY8C6117F-DI-F02T	•	•	-	-	-	-	-	WLC-SP	-	Cortex®-M4	50	-	-	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksp/s)	1024	288	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	Dual host and device	Reel

Industrial PSoC™ 6

Product type/partnumber	Industrial	Consumer	BLE Maximum Data Rate [Mbps]	BLE Power Output [dBm]	BLE RX Sensitivity [dBm]	BLE Supported Frequency band [GHz]	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	I ² S	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	# Serial communication blocks (I ² C, UART, SPI)	PDM-PCM	Quad-SPI	Smart I/O	FS-USB	Package carrier
PSoC™ 61 Series																																			
CY8C6137F-DI-F02T	•	•	-	-	-	-	-	WLC-SP	-	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	-	•	16	Dual host and device	Reel
CY8C6136F-DI-F42T	•	•	-	-	-	-	•	WLC-SP	-	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksps)	512	128	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	Dual host and device	Reel
CY8C6145A-ZI-S3F72	•	•	-	-	-	-	•	QFP	64	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	•	85	3.6	-40	1.7	1	2	-	12	2	-	6	-	•	8	Dual host and device	Tray
CY8C6136B-ZI-F34	•	•	-	-	-	-	•	BGA	104	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksps)	512	128	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	-	•	16	Dual host and device	Tray
CY8C6137B-ZI-F14	•	•	-	-	-	-	•	BGA	104	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	-	•	16	Dual host and device	Tray
CY8C6137B-ZI-F34	•	•	-	-	-	-	•	BGA	104	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	-	•	16	Dual host and device	Tray
PSoC™ 62 Series																																			
CY8C6247F-DI-D32T	•	•	-	-	-	-	•	WLC-SP	-	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	Dual host and device	Reel
CY8C6247F-DI-D52T	•	•	-	-	-	-	•	WLC-SP	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	Dual host and device	Reel
CY8C6248B-ZI-S2D44	•	•	-	-	-	-	•	BGA	100	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	1024	512	2	•	85	3.6	-40	1.7	-	2	-	32	-	-	-	2	•	16	Dual host and device	Tray
CY8C624AB-ZI-S2D14	•	•	-	-	-	-	•	BGA	100	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msp/s)	-	2048	1024	2	•	85	3.6	-40	1.7	-	2	-	32	-	-	-	2	•	16	Dual host and device	Tray
CY8C624AB-ZI-S2D04	•	•	-	-	-	-	-	BGA	100	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msp/s)	-	2048	1024	2	•	85	3.6	-40	1.7	-	2	-	32	-	-	-	2	•	16	Dual host and device	Tray
CY8C6248A-ZI-S2D14	•	•	-	-	-	-	•	QFP	27	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msp/s)	-	1024	512	2	•	85	3.6	-40	1.7	-	2	-	32	-	-	-	2	•	16	Dual host and device	Tray
CY8C6248A-ZI-S2D44	•	•	-	-	-	-	•	QFP	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	1024	512	2	•	85	3.6	-40	1.7	-	2	-	32	-	-	-	2	•	16	Dual host and device	Tray

Industrial PSoC™ 6

Product type/partnumber	Industrial Consumer	BLE Maximum Data Rate [Mbps]	BLE Power Output [dBm]	BLE RX Sensitivity [dBm]	BLE Supported Frequency band [GHz]	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	I ² S	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	# Serial communication blocks (I ² C, UART, SPI)	PDM-PCM	Quad-SPI	Smart I/O	FS-USB	Package carrier
PSoC™ 62 Series																																		
CY8C624AA-ZI-S2D14	●	●	-	-	-	●	QFP	-	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msp/s)	-	2048	1024	2	●	85	3.6	-40	1.7	-	2	-	32	4	-	-	2	●	16	Dual host and device	Tray
CY8C6245A-ZI-S3D12	●	●	-	-	-	●	QFP	64	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	●	85	3.6	-40	1.7	-	2	-	12	2	-	6	-	-	8	Dual host and device	Tray
CY8C6245L-QI-S3D62	●	●	-	-	-	-	QFN	-	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	●	85	3.6	-40	1.7	1	2	-	12	2	12	6	-	●	8	Dual host and device	Tray
CY8C6245A-ZI-S3D42	●	●	-	-	-	●	QFP	64	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	●	85	3.6	-40	1.7	-	2	-	12	2	-	6	-	-	8	Dual host and device	Tray
CY8C6245L-QI-S3D12	●	●	-	-	-	●	QFN	-	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	●	85	3.6	-40	1.7	-	2	-	12	2	-	6	-	●	8	Dual host and device	Tray
CY8C6245A-ZI-S3D62	●	●	-	-	-	-	QFP	64	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	●	85	3.6	-40	1.7	1	2	-	12	2	-	6	-	-	8	Dual host and device	Tray
CY8C6245L-QI-S3D72	●	●	-	-	-	●	QFN	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	●	85	3.6	-40	1.7	1	2	-	12	2	-	6	-	●	8	Dual host and device	Tray
CY8C6247B-ZI-AUD54	●	●	-	-	-	●	BGA	104	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksp/s)	1024	288	1	●	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	●	16	Dual host and device	Tray
CY8C6246B-ZI-D04	●	●	-	-	-	-	BGA	104	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksp/s)	512	128	1	●	85	3.6	-40	1.7	-	2	-	32	32	-	9	-	●	16	Dual host and device	Tray
CY8C6247B-ZI-D54T	●	●	-	-	-	●	BGA	104	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksp/s)	1024	288	1	●	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	●	16	Dual host and device	Reel
CY8C6247B-ZI-D44T	●	●	-	-	-	●	BGA	104	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksp/s)	1024	288	1	●	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	●	16	Dual host and device	Reel
CY8C6245A-ZI-S3D02	●	●	-	-	-	-	QFP	64	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	●	85	3.6	-40	1.7	-	2	-	12	2	-	6	2	-	8	Dual host and device	Tray
CY8C6245L-QI-S3D42	●	●	-	-	-	●	QFN	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	●	85	3.6	-40	1.7	-	2	-	12	2	-	6	-	●	8	Dual host and device	Tray
CY8C6247B-ZI-D54	●	●	-	-	-	●	BGA	104	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksp/s)	1024	288	1	●	85	3.6	-40	1.7	-	2	2	32	32	12	9	-	●	16	Dual host and device	Tray

Industrial PSoC™ 6

Product type/partnumber	Industrial Consumer	BLE Maximum Data Rate [Mbps]	BLE Power Output [dBm]	BLE RX Sensitivity [dBm]	BLE Supported Frequency band [GHz]	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	I ² S	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	# Serial communication blocks (I ² C, UART, SPI)	PDM-PCM	Quad-SPI	Smart I/O	FS-USB	Package carrier	
PSoC™ 62 Series																																			
CY8C6245F-NI-S3D41T	•	•	-	-	-	•	WLC-SP	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	•	85	3.6	-40	1.7	-	2	-	12	2	-	6	-	•	8	Dual host and device	Reel	
CY8C6245F-NI-S3D11T	•	•	-	-	-	•	WLC-SP	-	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	•	85	3.6	-40	1.7	-	2	-	12	2	-	6	-	•	16	Dual host and device	Reel	
CY8C6245L-QI-S3D02	•	•	-	-	-	-	QFN	-	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	•	85	3.6	-40	1.7	-	2	-	12	2	-	6	-	•	8	Dual host and device	Tray	
CY8C624AB-ZI-S2D44	•	•	-	-	-	•	BGA	100	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	2048	1024	2	•	85	3.6	-40	1.7	-	2	-	32	4	-	12	2	•	16	Dual host and device	Tray	
CY8C6247F-DI-D02T	•	•	-	-	-	-	WLC-SP	-	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	-	•	16	Dual host and device	Reel	
CY8C6247B-ZI-D34	•	•	-	-	-	•	BGA	104	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	-	•	16	Dual host and device	Tray	
CY8C624AF-NI-S2D43T	•	•	-	-	-	•	WLC-SP	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	2048	1024	2	•	85	3.6	-40	1.7	-	2	-	32	-	-	2	•	16	Dual host and device	Reel		
CY8C624AA-ZI-S2D44	•	•	-	-	-	•	QFP	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	2048	1024	2	•	85	3.6	-40	1.7	-	2	-	32	-	-	2	•	16	Dual host and device	Tray		
CY8C6245A-ZI-S3D72	•	•	-	-	-	•	QFP	64	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	•	85	3.6	-40	1.7	1	2	-	12	2	-	6	-	-	8	Dual host and device	Tray	
CY8C6248F-NI-S2D43T	•	•	-	-	-	•	WLC-SP	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	1024	512	2	•	85	3.6	-40	1.7	-	2	-	32	-	-	2	•	16	Dual host and device	Reel		
CY8C6245F-NI-S3D71T	•	•	-	-	-	•	WLC-SP	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	-	512	256	-	•	85	3.6	-40	1.7	1	2	-	12	2	12	6	-	•	8	Dual host and device	Reel	
CY8C6247B-ZI-D44	•	•	-	-	-	•	BGA	104	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	-	•	16	Dual host and device	Tray	
PSoC™ 63 Series																																			
CY8C6347F-MI-BLD33T	•	•	2	+4	-95	2.4	•	WLC-SP	72	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msp/s)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	-	Reel

Industrial PSoC™ 6

Product type/partnumber	Industrial Consumer	BLE Maximum Data Rate [Mbps]	BLE Power Output [dBm]	BLE RX Sensitivity [dBm]	BLE Supported Frequency band [GHz]	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	I ² S	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	# Serial communication blocks (I ² C, UART, SPI)	PDM-PCM	Quad-SPI	Smart I/O	FS-USB	Package carrier
PSoC™ 63 Series																																		
CY8C6347F-MI-BLD13T	•	•	2 +4	-95	2.4	•	WLC-SP	72	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	-	Reel
CY8C6347F-MI-BLD53T	•	•	2 +4	-95	2.4	•	WLC-SP	72	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	-	Reel
CY8C6347F-MI-BUD43T	•	•	2 +4	-95	2.4	•	WLC-SP	69	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	Dual host and device	Reel
CY8C6347F-MI-BUD13T	•	•	2 +4	-95	2.4	•	WLC-SP	69	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	Dual host and device	Reel
CY8C6347F-MI-BUD33T	•	•	2 +4	-95	2.4	•	WLC-SP	69	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	Dual host and device	Reel
CY8C68237-FM-BLE	•	•	2 +4	-95	2.4	•	WLC-SP	72	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	5,5	-40	1.9	-	2	2	32	32	12	9	2	•	16	-	Tray
CY8C6347F-MI-BLD43T	•	•	2 +4	-95	2.4	•	WLC-SP	72	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	-	Reel
CY8C6336B-ZI-BLD14	•	•	2 +4	-95	2.4	•	BGA	84	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	Dual host and device	Tray
CY8C6347B-ZI-BLD34	•	•	2 +4	-95	2.4	•	BGA	84	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	Dual host and device	Tray
CY8C6316B-ZI-BLF54	•	•	2 +4	-95	2.4	•	BGA	84	Cortex®-M4	50	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	Dual host and device	Tray
CY8C6336B-ZI-BLF04	•	•	2 +4	-95	2.4	-	BGA	84	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	Dual host and device	Tray
CY8C6347B-ZI-BLD44	•	•	2 +4	-95	2.4	•	BGA	84	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	Dual host and device	Tray
CY8C6337B-ZI-BLF14	•	•	2 +4	-95	2.4	•	BGA	84	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	Dual host and device	Tray
CY8C6316B-ZI-BLF03	•	•	2 +4	-95	2.4	-	BGA	78	Cortex®-M4	50	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	160	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	-	•	16	-	Tray

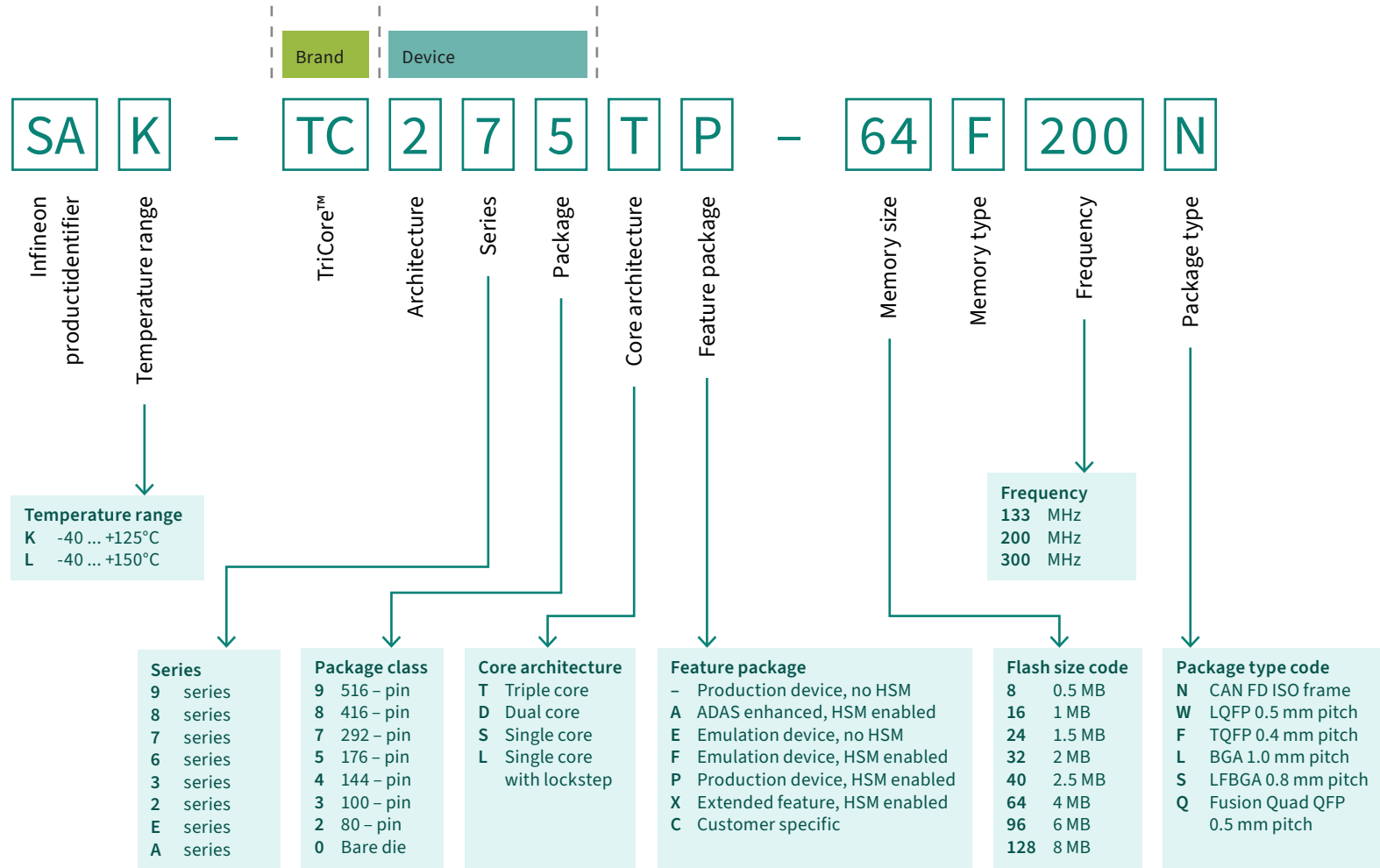
Industrial PSoC™ 6

Product type/partnumber	Industrial	Consumer	BLE Maximum Data Rate [Mbps]	BLE Power Output [dBm]	BLE RX Sensitivity [dBm]	BLE Supported Frequency band [GHz]	CapSense	Package	# GPIOs	Processor type	Max. Operating frequency [MHz]	Secondary processor type	Cryptographics accelerator	Dedicated ADC (# Max Resolution @ Sample rate)	Dedicated DAC (# Max Resolution @ Sample rate)	Flash [KB]	SRAM [KB]	I ² S	LCD direct drive	Max. Operating temp. [°C]	Max. Operating voltage [V]	Min. Operating temp. [°C]	Min. Operating voltage [V]	# CAN controllers	# Dedicated comparators	# Dedicated OpAmps	# Dedicated timer/Counter/PWM blocks	# DMA channels	# Programmable universal digital blocks	# Serial communication blocks (I ² C, UART, SPI)	PDM-PCM	Quad-SPI	Smart I/O	FS-USB	Package carrier
PSoC™ 63 Series																																			
CY8C6336B-ZI-BLF03	•	•	2	+4	-95	2.4	-	BGA	78	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	160	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	-	•	16	-	Tray
CY8C6347B-ZI-BLD43	•	•	2	+4	-95	2.4	•	BGA	78	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	-	Tray
CY8C6336B-ZI-BLD13	•	•	2	+4	-95	2.4	•	BGA	78	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	160	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	-	•	16	-	Tray
CY8C6337B-ZI-BLF13	•	•	2	+4	-95	2.4	•	BGA	78	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	-	Tray
CY8C6347B-ZI-BLD43T	•	•	2	+4	-95	2.4	•	BGA	78	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	-	Reel
CY8C6347B-ZI-BLD53T	•	•	2	+4	-95	2.4	•	BGA	78	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	-	Reel
CY8C6316B-ZI-BLF53	•	•	2	+4	-95	2.4	•	BGA	78	Cortex®-M4	50	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	160	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	-	•	16	-	Tray
CY8C6336L-QI-BLF42	•	•	2	+4	-95	2.4	•	QFN	41	Cortex®-M4	150	-	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	-	Tray
CY8C6316B-ZI-BLF04	•	•	2	+4	-95	2.4	-	BGA	84	Cortex®-M4	50	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	Dual host and device	Tray
CY8C6336L-QI-BLF02	•	•	2	+4	-95	2.4	-	QFN	41	Cortex®-M4	150	-	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	512	128	1	•	85	3.6	-40	1.7	-	2	-	32	32	-	9	2	•	16	-	Tray
CY8C6347F-MI-BUD53T	•	•	2	+4	-95	2.4	•	WLC-SP	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	-	-	16	Dual host and device	Reel
CY8C6347B-ZI-BLD33	•	•	2	+4	-95	2.4	•	BGA	78	Cortex®-M4	150	Cortex®-M0	-	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	-	Tray
CY8C6347L-QI-BLD52	•	•	2	+4	-95	2.4	•	QFN	-	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	-	Tray
CY8C6347B-ZI-BLD53	•	•	2	+4	-95	2.4	•	BGA	78	Cortex®-M4	150	Cortex®-M0	(AES, 3DES, RSA, SHA-512, SHA-256 and ECC)	SAR (1, 12-bit @ 1 msps)	(1, 12-bit @ 200 ksps)	1024	288	1	•	85	3.6	-40	1.7	-	2	2	32	32	12	9	2	•	16	-	Tray

Automotive, Off-Highway vehicles, and Safety Required Applications



AURIX™ Microcontroller – TC2x family



AURIX™ Microcontroller – TC2x family

Product type	Markets		Package		Tri Core™		Program flash		Data flash		SRAM	DMA	ADC		Timer-GTM			Timer	Interfaces												Safety	Security	Power							
	Automotive	Industrial	Consumer	Temperature T _A [°C]	Package (Pitch)	# Cores/Checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	Modules 12-bit (SAR) / 16-bit (DS)	Channels VADC/DSADC	GTM input/output channels	TOM – standard 16-bit PWM ch.	ATOM – complex 24-bit PWM ch.	DTM – 2x4 ch	CCU/GPT modules	FlexRay (#/ch.)	CAN-FD (nodes/obj)/(DIS 2014)	CAN-FD (nodes/obj)/(DIS 2015)	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I ² C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	FFT accelerator engine	“Camera (incl. pixel preprocessing) and ext. ADC 16-bit interface (CIF)”	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	Embedded Voltage Regulator (EVR)	Standby control unit
AURIX™ TC2x – family																																								
SAK-TC299TX-128F300	•	•	–	125	FBGA-516 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	84/10 diff	48/152	80	72	–	2/1	2/4	6/384	4	6	4	2	15	5	1	1	3 diff IVDS	1	–	–	1	ASIL-D	•	•	SRAM
SAK-TC299TY-128F300	•	•	–	125	FBGA-516 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	84/10 diff	48/152	80	72	–	2/1	2/4	6/384	4	6	4	2	15	5	1	1	3 diff IVDS	1	–	–	1	ASIL-D	–	•	SRAM
SAK-TC299TP-128F300	•	•	–	125, 150	FBGA-516 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	728	128	11/10	84/10 diff	48/152	80	72	–	2/1	2/4	6/384	4	6	4	2	15	5	1	1	3 diff IVDS	1	–	–	1	ASIL-D	•	•	SRAM
SAK-TC298TP-128F300	•	•	–	125, 150	FBGA-416 (1.0 mm)	3/1	300	8	20 years	768	125 k	10 years	728	128	11/10	62/10 diff	48/152	80	72	–	2/1	2/4	6/384	4	4	4	2	15	5	1	1	3 diff IVDS	1	–	–	1	ASIL-D	•	•	SRAM
SAK-TC297TA-128F300	•	•	–	125	FBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	60/6 diff	48/152	80	72	–	2/1	2/4	6/384	4	5	4	2	15	5	1	1	3 diff IVDS	–	1	1	1	ASIL-D	•	•	SRAM
SAK-TC297TB-128F300	•	•	–	125	FBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	60/6 diff	48/152	80	72	–	2/1	2/4	6/384	4	5	4	2	15	5	1	1	3 diff IVDS	–	1	1	1	ASIL-D	–	•	SRAM
SAK-TC297TX-128F300	•	•	–	125	FBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	60/6 diff	48/152	80	72	–	2/1	2/4	6/384	4	5	4	2	15	5	1	1	3 diff IVDS	–	–	–	1	ASIL-D	•	•	SRAM
SAK-TC297TY-128F300	•	•	–	125	FBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	2776	128	11/10	60/6 diff	48/152	80	72	–	2/1	2/4	6/384	4	5	4	2	15	5	1	1	3 diff IVDS	–	–	–	1	ASIL-D	–	•	SRAM
SAK-TC297TP-128F300	•	•	–	125, 150	FBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	728	128	11/10	60/6 diff	48/152	80	72	–	2/1	2/4	6/384	4	5	4	2	15	5	1	1	3 diff IVDS	–	–	–	1	ASIL-D	•	•	SRAM
SAK-TC297T-128F300	•	•	–	125, 150	FBGA-292 (0.8 mm)	3/1	300	8	20 years	768	125 k	10 years	728	128	11/10	60/6 diff	48/152	80	72	–	2/1	2/4	6/384	4	5	4	2	15	5	1	1	3 diff IVDS	–	–	–	1	ASIL-D	–	•	SRAM
SAK-TC277TP-64F200	•	•	–	125, 150	FBGA-292 (0.8 mm)	3/2	200	4	20 years	384	125 k	10 years	472	64	8/6	60/6 diff	32/88	48	40	–	2/1	1/2	4/256	4	4	4	1	10	3	1	1	2 diff IVDS	–	–	–	1	ASIL-D	•	•	SRAM
SAK-TC277T-64F200	•	•	–	125, 150	FBGA-292 (0.8 mm)	3/2	200	4	20 years	384	125 k	10 years	472	64	8/6	60/6 diff	32/88	48	40	–	2/1	1/2	4/256	4	4	4	1	10	3	1	1	2 diff IVDS	–	–	–	1	ASIL-D	–	•	SRAM
SAK-TC275TP-64F200	•	•	–	125, 150	IQFP-176 (0.5 mm)	3/2	200	4	20 years	384	125 k	10 years	472	64	8/6	48/6 diff	32/88	48	40	–	2/1	1/2	4/256	4	4	4	1	10	3	1	1	2 diff IVDS	–	–	–	1	ASIL-D	•	•	SRAM

AURIX™ Microcontroller – TC2x family

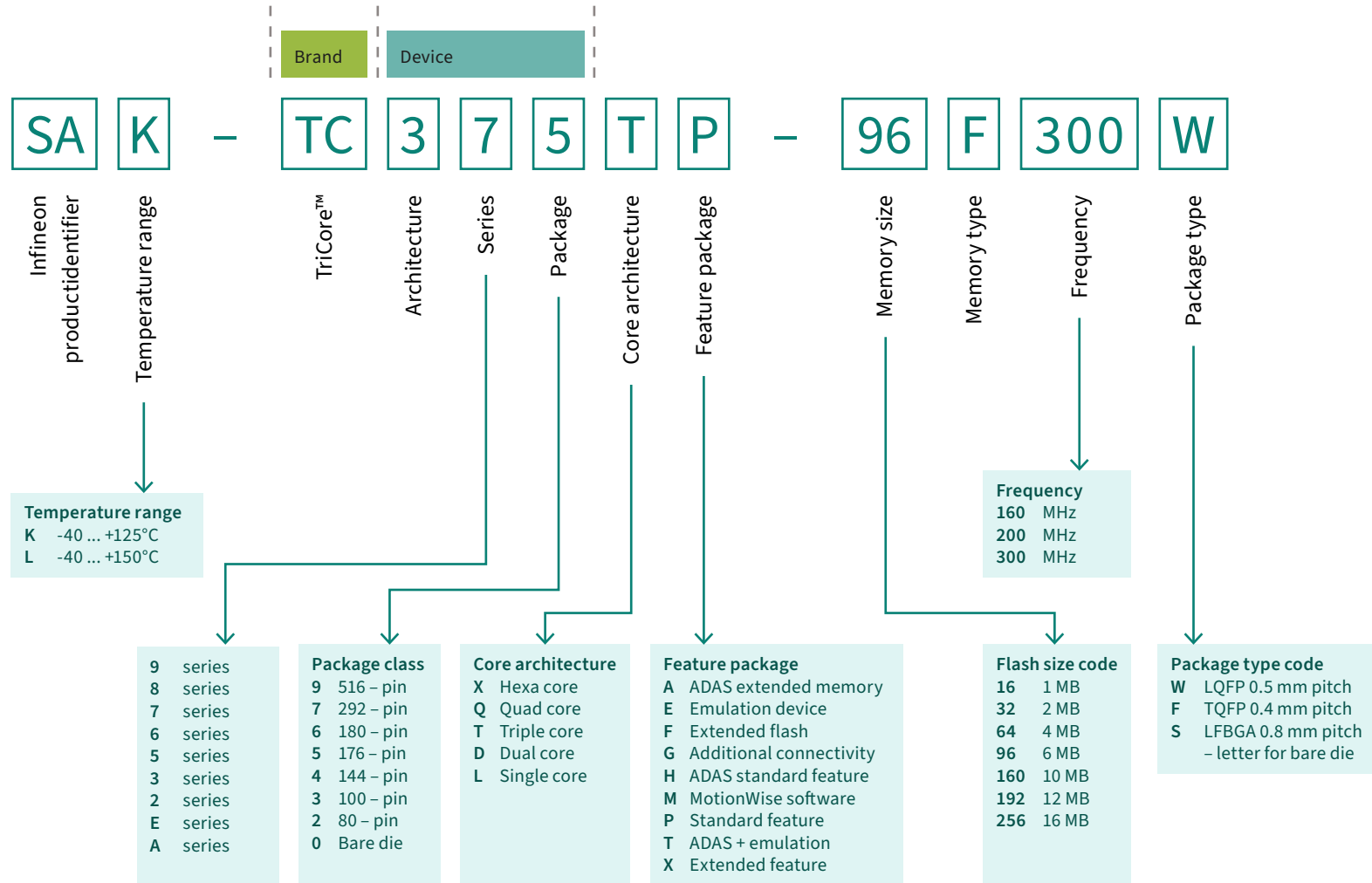
Product type	Markets		Package		Tri Core™	Program flash		Data flash			SRAM	DMA	ADC		Timer-GTM			Timer	Interfaces													Safety	Se-curity	Power								
	Automotive	Industrial	Consumer	Temperature T _A [°C]	Package (Pitch)	# Cores/Checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	Modules 12-bit (SAR) / 16-bit (DS)	Channels VADC/DSADC	GTM input/output channels	TOM – standard 16-bit PWM ch.	ATOM – complex 24-bit PWM ch.	DTM – 2x4 ch	CCU/GPT modules	FlexRay (#/ch.)	CAN-FD (nodes/obj)/(DIS 2014)	CAN-FD (nodes/obj)/(DIS 2015)	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I ² C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	FFT accelerator engine	“Camera (incl. pixel preprocessing) and ext. ADC 16-bit interface (CIF)”	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	Embedded Voltage Regulator (EVR)	Standby control unit		
AURIX™ TC2x – family																																										
SAK-TC275T-64F200	•	•	–	125, 150	IQFP-176 (0.5 mm)	3/2	200	4	20 years	384	125 k	10 years	472	64	8/6	48/6 diff	32/88	48	40	–	2/1	1/2	4/256	4	4	4	1	10	3	1	1	2 diff IVDS	–	–	–	1	ASIL-D	–	•	SRAM		
SAK-TC267D-40F200	•	•	–	125, 150	IFBGA-292 (0.8 mm)	2/1	200	2.5	20 years	96	125 k	10 years	240	48	4/3	56/3 diff	24/ 64	32	32	–	2/1	1/2	5/256	No	4	4	1	6	2	1	1	2 diff IVDS	–	–	–	1	ASIL-D	–	•	Yes		
SAK-TC265D-40F200	•	•	–	125, 150	IQFP-176 (0.5 mm)	2/1	200	2.5	20 years	96	125 k	10 years	240	48	4/3	50/3 diff	24/ 64	32	32	–	2/1	1/2	5/256	4	4	4	1	6	2	1	1	2 diff IVDS	–	–	–	1	ASIL-D	–	•	Yes		
SAK-TC264DA-40F200	•	•	–	125	IQFP-144 (0.5 mm)	2/1	200	2.5	20 years	96	125 k	10 years	752	48	4/3	40/3 diff	24/ 64	32	32	–	2/1	1/2	5/256	4	4	4	1	6	2	1	1	2 diff IVDS	–	1	1	1	ASIL-D	–	•	Yes		
SAK-TC264D-40F200	•	•	–	125, 150	IQFP-144 (0.5 mm)	2/1	200	2.5	20 years	96	125 k	10 years	240	48	4/3	40/3 diff	24/ 64	32	32	–	2/1	1/2	5/256	4	4	4	1	6	2	1	1	2 diff IVDS	–	–	–	1	ASIL-D	–	•	Yes		
SAK-TC234LA-32F200	•	•	–	125	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	704	16	4/-	24/-	8/32	32	–	2	2/1	1/2	6/256	No	4	2	–	4	–	–	–	–	–	–	1	–	1	ASIL-D	•	•	WUT + SRAM	
SAK-TC234LX-32F200	•	•	–	125	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	704	16	2/-	24/-	8/32	32	–	2	2/1	1/2	6/256	No	4	2	–	4	–	–	–	–	–	–	–	–	1	ASIL-D	•	•	WUT + SRAM	
SAK-TC237LP-32F200	•	•	–	125, 150	IFBGA-292 (0.8 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/-	24/-	8/32	32	–	2	2/1	1/2	6/256	4	4	2	–	4	–	–	–	–	–	–	–	–	–	–	ASIL-D	•	•	WUT + SRAM
SAK-TC234LP-32F200	•	•	–	125, 150	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/-	24/-	8/32	32	–	2	2/1	1/2	6/256	4	4	2	–	4	–	–	–	–	–	–	–	–	–	–	ASIL-D	•	•	WUT + SRAM
SAK-TC234L-32F200	•	•	–	125, 150	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/-	24/-	8/32	32	–	2	2/1	1/2	6/256	4	4	2	–	4	–	–	–	–	–	–	–	–	–	ASIL-D	–	•	WUT + SRAM	
SAK-TC233L-32F200	•	•	–	125, 150	TQFP-100 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/-	24/-	8/32	32	–	2	2/1	1/2	6/256	4	4	2	–	4	–	–	–	–	–	–	–	–	–	ASIL-D	–	•	WUT + SRAM	
SAK-TC233LP-32F200	•	•	–	125, 150	TQFP-100 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	192	16	2/-	24/-	8/32	32	–	2	2/1	1/2	6/256	4	4	2	–	4	–	–	–	–	–	–	–	–	–	–	ASIL-D	•	•	WUT + SRAM
SAK-TC224L-16F133	•	•	–	125, 150	TQFP-144 (0.4 mm)	1/1	133	1	20 years	96	125 k	10 years	96	16	2/-	24/-	8/32	32	–	2	2/1	–	3/128	3	4	2	–	4	–	–	–	–	–	–	–	–	–	ASIL-D	–	•	WUT + SRAM	

AURIX™ Microcontroller – TC2x family

Product type	Mar-kets		Package		Tri Core™		Program flash		Data flash			SRAM	DMA	ADC		Timer-GTM			Timer	Interfaces												Safe-ty	Se-curity	Power								
	Automotive	Industrial	Consumer	Temperature T _A [°C]	Package (Pitch)	# Cores/Checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	Modules 12-bit (SAR) / 16-bit (DS)	Channels VADC/DSADC	GTM input/output channels	TOM – standard 16-bit PWM ch.	ATOM – complex 24-bit PWM ch.	DTM – 2x4 ch	CCU/GPT modules	FlexRay (#/ch.)	CAN-FD (nodes/obj)/(DIS 2014)	CAN-FD (nodes/obj)/(DIS 2015)	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I ² C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	FFT accelerator engine	“Camera (incl. pixel preprocessing) and ext. ADC 16-bit interface (CIF)”	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	Embedded Voltage Regulator (EVR)	Standby control unit		
AURIX™ TC2x – family																																										
SAK-TC224S-16F133	●	●	-	125, 150	TQFP-144 (0.4 mm)	1/0	133	1	20 years	96	125 k	10 years	96	16	2/-	24/-	8/32	32	-	2	2/1	-	3/128	3	4	2	-	4	-	-	-	-	-	-	-	-	-	ASIL-B	-	●	WUT + SRAM	
SAK-TC223L-16F133	●	●	-	125, 150	TQFP-100 (0.4 mm)	1/1	133	1	20 years	96	125 k	10 years	96	16	2/-	24/-	8/32	32	-	2	2/1	-	3/128	3	4	2	-	4	-	-	-	-	-	-	-	-	-	-	ASIL-D	-	●	WUT + SRAM
SAK-TC223S-16F133	●	●	-	125, 150	TQFP-100 (0.4 mm)	1/0	133	1	20 years	96	125 k	10 years	96	16	2/-	24/-	8/32	32	-	2	2/1	-	3/128	3	4	2	-	4	-	-	-	-	-	-	-	-	-	-	ASIL-B	-	●	WUT + SRAM
SAK-TC222L-16F133	●	●	-	125, 150	TQFP-80 (0.4 mm)	1/1	133	1	20 years	96	125 k	10 years	96	16	2/-	24/-	8/32	32	-	2	2/1	-	3/128	3	4	2	-	4	-	-	-	-	-	-	-	-	-	-	ASIL-D	-	●	WUT + SRAM
SAK-TC222S-16F133	●	●	-	125, 150	TQFP-80 (0.4 mm)	1/0	133	1	20 years	96	125 k	10 years	96	16	2/-	24/-	8/32	32	-	2	2/1	-	3/128	3	4	2	-	4	-	-	-	-	-	-	-	-	-	-	ASIL-B	-	●	WUT + SRAM
SAK-TC214L-8F133	●	●	-	125, 150	TQFP-144 (0.4 mm)	1/1	133	0.5	20 years	64	125 k	10 years	56	16	2/-	24/-	8/32	32	-	2	2/1	-	3/128	3	4	2	-	4	-	-	-	-	-	-	-	-	-	-	ASIL-D	-	●	WUT + SRAM
SAK-TC214S-8F133	●	●	-	125, 150	TQFP-144 (0.4 mm)	1/0	133	0.5	20 years	64	125 k	10 years	56	16	2/-	24/-	8/32	32	-	2	2/1	-	3/128	3	4	2	-	4	-	-	-	-	-	-	-	-	-	-	ASIL-B	-	●	WUT + SRAM
SAK-TC213L-8F133	●	●	-	125, 150	TQFP-100 (0.4 mm)	1/1	133	0.5	20 years	64	125 k	10 years	56	16	2/-	24/-	8/32	32	-	2	2/1	-	3/128	3	4	2	-	4	-	-	-	-	-	-	-	-	-	-	ASIL-D	-	●	WUT + SRAM
SAK-TC213S-8F133	●	●	-	125, 150	TQFP-100 (0.4 mm)	1/0	133	0.5	20 years	64	125 k	10 years	56	16	2/-	24/-	8/32	32	-	2	2/1	-	3/128	3	4	2	-	4	-	-	-	-	-	-	-	-	-	-	ASIL-B	-	●	WUT + SRAM
SAK-TC212L-8F133	●	●	-	125, 150	TQFP-80 (0.4 mm)	1/1	133	0.5	20 years	64	125 k	10 years	56	16	2/-	24/-	8/32	32	-	2	2/1	-	3/128	3	4	2	-	4	-	-	-	-	-	-	-	-	-	-	ASIL-D	-	●	WUT + SRAM
SAK-TC212S-8F133	●	●	-	125, 150	TQFP-80 (0.4 mm)	1/0	133	0.5	20 years	64	125 k	10 years	56	16	2/-	24/-	8/32	32	-	2	2/1	-	3/128	3	4	2	-	4	-	-	-	-	-	-	-	-	-	-	ASIL-B	-	●	WUT + SRAM

ASC = Asynchronous Serial Channel
 EVR = Embedded Voltage Regulator
 MSC = Micro Second Channel
 SENT = Single Edge Nibble Transmission
 Ambient temperature range:
 K = -40 ... 125°C, L = -40 ... 150°C

AURIX™ Microcontroller – TC3x family



AURIX™ Microcontroller – TC3x family

Product type	Markets			Package		Tri Core™		Program flash		Data flash			SRAM	DMA	Timer	Interfaces														Safety	Security	Power	
	Automotive	Industrial	Consumer	Temperature T _A [°C]	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kjb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	GTM/CCU/GPT modules	FlexRay (#/ch.)	CAN-FD	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I ² C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	Signal Processing Unit (SPU)	“Camera (incl. pixel preprocessing), and ext. ADC 16-bit interface (CIF)”	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	“Embedded Voltage Regulator (EVR) (5 V/3.3 V)”	Standby control unit Standby control unit
AURIX™ TC3x – family																																	
TC397XA-256F300S	•	•	-	125	IFBGA-292 (0.8 mm)	6/4	300	16	20 years	1024	125 k	10 years	6912	128	•/•/•	4	12	6	12	2	17	4	•	2	1	-	2	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC399XX-256F300S	•	•	-	125-150	IFBGA-516 (0.8 mm)	6/4	300	16	20 years	1024	125 k	10 years	6912	128	•/•/•	4	12	6	12	2	25	4	•	2	4	•	-	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC399XP-256F300S	•	•	-	125-150	IFBGA-516 (0.8 mm)	6/4	300	16	20 years	1024	125 k	10 years	2816	128	•/•/•	4	12	6	12	2	25	4	•	2	4	•	-	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC397XX-256F300S	•	•	-	125-150	IFBGA-292 (0.8 mm)	6/4	300	16	20 years	1024	125 k	10 years	6912	128	•/•/•	4	12	6	12	2	20	4	•	2	2	-	-	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC397XP-256F300S	•	•	-	125-150	IFBGA-292 (0.8 mm)	6/4	300	16	20 years	1024	125 k	10 years	2816	128	•/•/•	4	12	6	12	2	20	4	•	2	2	-	-	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC397QA-160F300S	•	•	-	125	IFBGA-292 (0.8 mm)	4/4	300	16	20 years	1024	125 k	10 years	6368	128	•/•/•	4	12	6	12	2	20	4	•	2	1	-	-	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC397XM-256F300S	•	•	-	125	IFBGA-292 (0.8 mm)	6/4	300	16	20 years	1024	125 k	10 years	2816	128	•/•/•	4	12	6	12	2	20	4	•	2	2	-	-	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC389QP-160F300S	•	•	-	125-150	IFBGA-516 (0.8 mm)	4/2	300	10	20 years	512	125 k	10 years	1568	128	•/•/•	4	12	5	24	2	25	4	•	1	3	-	-	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC387QP-160F300S	•	•	-	125-150	IFBGA-292 (0.8 mm)	4/2	300	10	20 years	512	125 k	10 years	1568	128	•/•/•	4	12	5	24	2	20	4	•	1	2	-	-	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC3E7QG-160F300S	•	•	-	125	IFBGA-292 (0.8 mm)	4/2	300	10	20 years	512	125 k	10 years	1696	128	•/•/•	4	20	5	24	2	20	4	•	1	2	-	-	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC3E7QF-192F300S	•	•	-	125-150	IFBGA-292 (0.8 mm)	4/2	300	12	20 years	512	125 k	10 years	1696	128	•/•/•	4	16	5	24	2	20	4	•	1	2	-	-	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC3E7QX-192F300S	•	•	-	125-150	IFBGA-292 (0.8 mm)	4/2	300	12	20 years	512	125 k	10 years	1696	128	•/•/•	4	20	5	24	2	20	4	•	1	2	-	-	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC377TX-96F300S	•	•	-	125	IFBGA-292 (0.8 mm)	3/3	300	6	20 years	256	125 k	10 years	4208	128	•/•/•	2	12	5	12	1	15	2	•	1	2	-	-	1	2/2	ASIL-D	Full eVita	•	• (8 bit)

AURIX™ Microcontroller – TC3x family

Product type	Markets			Package		Tri Core™		Program flash		Data flash			SRAM	DMA	Timer	Interfaces													Safety	Security	Power		
	Automotive	Industrial	Consumer	Temperature T _A [°C]	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	GTM/CCU/GPT modules	FlexRay (#/ch.)	CAN-FD	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I ² C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	Signal Processing Unit (SPU)	“Camera (incl. pixel preprocessing), and ext. ADC 16-bit interface (CIF)”	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	“Embedded Voltage Regulator (EVR) (5 V/3.3 V)”	Standby control unit Standby control unit
AURIX™ TC3x – family																																	
TC377TP-96F300S	•	•	-	125–150	IFBGA-292 (0.8 mm)	3/2	300	6	20 years	256	125 k	10 years	1136	128	•/•/•	2	8	5	12	1	15	2	•	1	2	-	-	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC375TP-96F300W	•	•	-	125–150	IQFP-176 (0.5 mm)	3/2	300	6	20 years	256	125 k	10 years	1136	128	•/•/•	2	8	5	12	1	15	2	•	1	2	-	-	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC367DP-64F300S	•	•	-	125–150	IFBGA-292 (0.8 mm)	2/2	300	4	20 years	128	125 k	10 years	672	64	•/•/•	2	8	4	12	1	10	2	•	1	1	-	-	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC364DP-64F300W	•	•	-	125–150	IQFP-176 (0.5 mm)	2/2	300	4	20 years	128	125 k	10 years	672	64	•/•/•	2	8	4	12	1	10	2	•	1	1	-	-	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC364DP-64F300F	•	•	-	125–150	TQFP-144 (0.4 mm)	2/2	300	4	20 years	128	125 k	10 years	672	64	•/•/•	2	8	4	12	1	10	2	•	1	1	-	-	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC366DP-64F300S	•	•	-	125–150	BGA-180 (0.8 mm)	2/2	300	4	20 years	128	125 k	10 years	672	64	•/•/•	2	8	4	12	1	10	2	•	1	1	-	-	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC365DP-64F300W	•	•	-	125–150	IQFP-176 (0.5 mm)	2/2	300	4	20 years	128	125 k	10 years	672	64	•/•/•	2	8	4	12	1	10	2	•	1	1	-	-	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC357TA-64F300S	•	•	-	125	IFBGA-292 (0.8 mm)	3/2	300	4	20 years	128	125 k	10 years	3664	64	•/•/•	2	8	4	4	1	-	-	-	-	-	-	2	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC357TH-64F300S	•	•	-	125	IFBGA-292 (0.8 mm)	3/2	300	4	20 years	128	125 k	10 years	3152	64	•/•/•	2	8	4	4	1	-	-	-	-	-	-	2	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC356TH-64F300S	•	•	-	125	BGA-180 (0.8 mm)	3/2	300	4	20 years	128	125 k	10 years	3152	64	•/•/•	2	8	4	4	1	-	-	-	-	-	-	2	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC356TA-64F300S	•	•	-	125	BGA-180 (0.8 mm)	3/2	300	4	20 years	128	125 k	10 years	3664	64	•/•/•	2	8	4	4	1	-	-	-	-	-	-	2	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC337DA-32F200S	•	•	-	125	IFBGA-292 (0.8 mm)	2/1	200	2	20 years	128	125 k	10 years	1576	16	•/•/•	2	4	4	6	-	6	-	-	-	-	-	1	-	1/1	ASIL-D	Full eVita	•	• (8 bit)
TC337LP-32F200S	•	•	-	125–150	IFBGA-292 (0.8 mm)	1/1	200	2	20 years	128	125 k	10 years	248	16	•/•/•	2	8	4	12	-	6	-	-	-	-	-	-	-	-	ASIL-D	Full eVita	•	• (8 bit)

AURIX™ Microcontroller – TC3x family

Product type	Markets			Package		Tri Core™		Program flash		Data flash			SRAM	DMA	Timer	Interfaces													Safety	Security	Power			
	Automotive	Industrial	Consumer	Temperature T _A [°C]	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	GTM/CCU/GPT modules	FlexRay (#/ch.)	CAN-FD	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I ² C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	Signal Processing Unit (SPU)	“Camera (incl. pixel preprocessing), and ext. ADC 16-bit interface (CIF)”	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	“Embedded Voltage Regulator (EVR) (5 V/3.3 V)”	Standby control unit Standby control unit	
AURIX™ TC3x – family																																		
TC334LP-32F200F	•	•	-	125–150	TQFP-144 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	248	16	•/•/•	2	8	4	12	-	6	-	-	-	-	-	-	-	-	-	ASIL-D	Full eVita	•	• (8 bit)
TC333LP-32F200F	•	•	-	125–150	TQFP-100 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	248	16	•/•/•	2	6	4	5	-	6	-	-	-	-	-	-	-	-	ASIL-D	Full eVita	•	• (8 bit)	
TC337LP-32F300S	•	•	-	125–150	IFBGA-292 (0.8 mm)	1/1	300	2	20 years	128	125 k	10 years	248	16	•/•/•	2	8	4	12	-	6	-	-	-	-	-	-	-	ASIL-D	Full eVita	•	• (8 bit)		
TC337DA-32F300S	•	•	-	125	IFBGA-292 (0.8 mm)	2/1	300	2	20 years	128	125 k	10 years	1576	16	•/•/•	2	4	4	6	-	6	-	-	-	-	-	1	-	1/1	ASIL-D	Full eVita	•	• (8 bit)	
TC336LP-32F300S	•	•	-	125–150	BGA-180 (0.8 mm)	1/1	300	2	20 years	128	125 k	10 years	248	16	•/•/•	2	8	4	12	-	6	-	-	-	-	-	-	-	ASIL-D	Full eVita	•	• (8 bit)		
TC336LP-32F200S	•	•	-	125–150	BGA-180 (0.8 mm)	1/1	200	2	20 years	128	125 k	10 years	248	16	•/•/•	2	8	4	12	-	6	-	-	-	-	-	-	-	ASIL-D	Full eVita	•	• (8 bit)		
TC336DA-32F300S	•	•	-	125	BGA-180 (0.8 mm)	2/1	300	2	20 years	128	125 k	10 years	1576	16	•/•/•	2	4	4	5	-	6	-	-	-	-	-	1	-	1/1	ASIL-D	Full eVita	•	• (8 bit)	
TC336DA-32F200S	•	•	-	125	BGA-180 (0.8 mm)	2/1	200	2	20 years	128	125 k	10 years	1576	16	•/•/•	2	4	4	5	-	6	-	-	-	-	-	1	-	1/1	ASIL-D	Full eVita	•	• (8 bit)	
TC334LP-32F300F	•	•	-	125–150	TQFP-144 (0.4 mm)	1/1	300	2	20 years	128	125 k	10 years	248	16	•/•/•	2	8	4	12	-	6	-	-	-	-	-	-	-	ASIL-D	Full eVita	•	• (8 bit)		
TC333LP-32F300F	•	•	-	125–150	TQFP-100 (0.4 mm)	1/1	300	2	20 years	128	125 k	10 years	248	16	•/•/•	2	6	4	5	-	6	-	-	-	-	-	-	-	ASIL-D	Full eVita	•	• (8 bit)		
TC332LP-32F300F	•	•	-	125–150	TQFP-80 (0.4 mm)	1/1	300	2	20 years	128	125 k	10 years	248	16	•/•/•	2	6	4	5	-	6	-	-	-	-	-	-	-	ASIL-D	Full eVita	•	• (8 bit)		
TC332LP-32F200F	•	•	-	125–150	TQFP-80 (0.4 mm)	1/1	200	2	20 years	128	125 k	10 years	248	16	•/•/•	2	6	4	5	-	6	-	-	-	-	-	-	-	ASIL-D	Full eVita	•	• (8 bit)		
TC327LP-16F160S	•	•	-	125–150	IFBGA-292 (0.8 mm)	1/1	160	1	20 years	96	125 k	10 years	152	16	•/•/•	2	8	4	4	-	6	-	-	-	-	-	-	-	ASIL-D	Full eVita	•	• (8 bit)		

AURIX™ Microcontroller – TC3x family

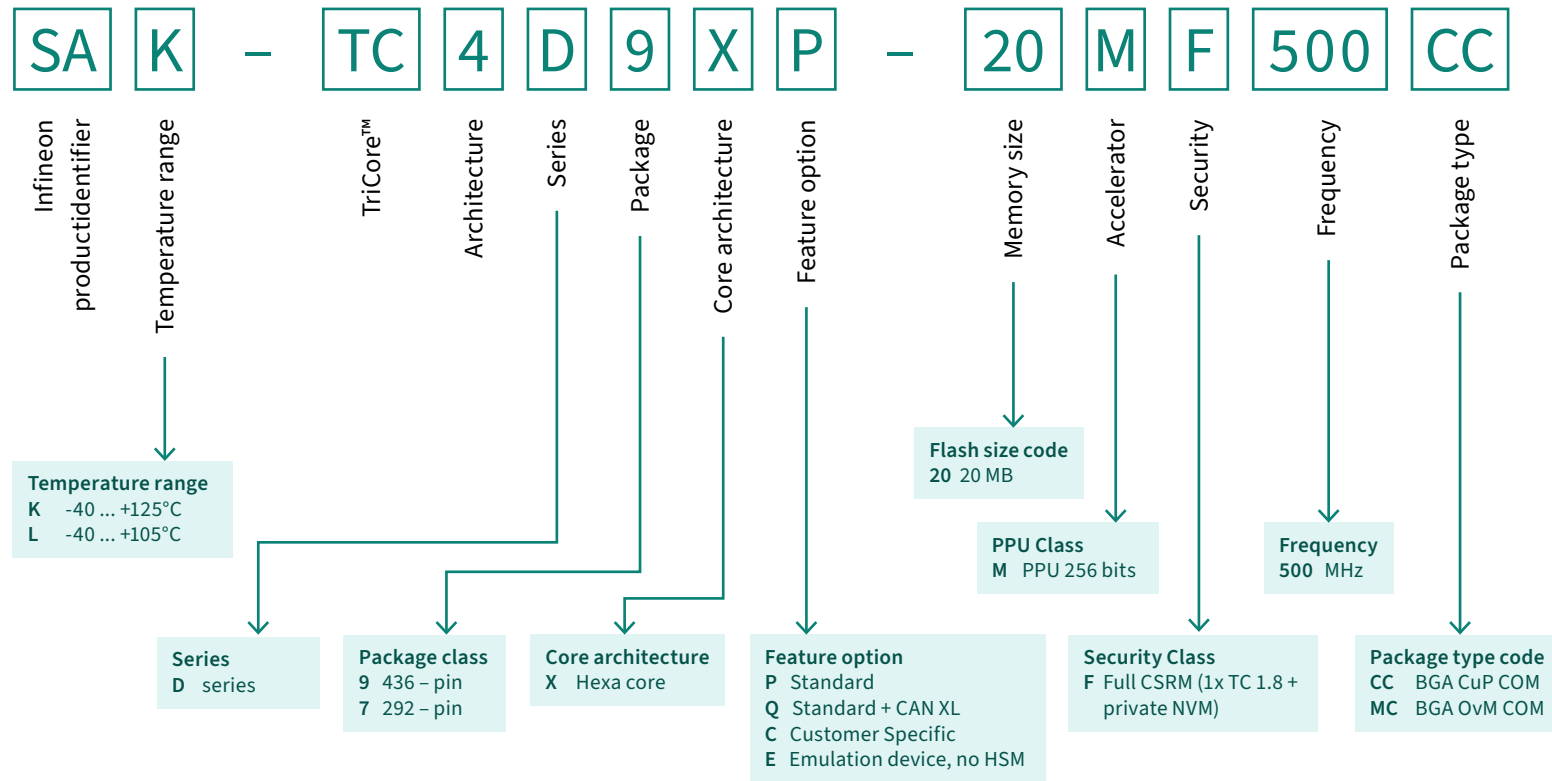
Product type	Markets			Package		Tri Core™		Program flash		Data flash			SRAM	DMA	Timer	Interfaces												Safety	Security	Power				
	Automotive	Industrial	Consumer	Temperature T _A [°C]	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	GTM/CCU/GPT modules	FlexRay (#/ch.)	CAN-FD	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I ² C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	Signal Processing Unit (SPU)	“Camera (incl. pixel preprocessing), and ext. ADC 16-bit interface (CIF)”	Ethernet MAC 100 Mbit/s	SIL level	Hardware Security Module (HSM)	“Embedded Voltage Regulator (EVR) (5 V/3.3 V)”	Standby control unit Standby control unit	
AURIX™ TC3x – family																																		
TC324LP-16F160F	•	•	-	125–150	TQFP-144 (0.4 mm)	1/1	160	1	20 years	96	125 k	10 years	152	16	•/•/•	2	8	4	4	-	6	-	-	-	-	-	-	-	-	-	ASIL-D	Full eVita	•	• (8 bit)
TC323LP-16F160F	•	•	-	125–150	TQFP-100 (0.4 mm)	1/1	160	1	20 years	96	125 k	10 years	152	16	•/•/•	2	6	4	4	-	6	-	-	-	-	-	-	-	-	ASIL-D	Full eVita	•	• (8 bit)	
TC322LP-16F160F	•	•	-	125–150	TQFP-80 (0.4 mm)	1/1	160	1	20 years	96	125 k	10 years	152	16	•/•/•	2	6	4	4	-	6	-	-	-	-	-	-	-	ASIL-D	Full eVita	•	• (8 bit)		

ASC = Asynchronous Serial Channel
EVR = Embedded Voltage Regulator

MSC = Micro Second Channel
SENT = Single Edge Nibble Transmission

Ambient temperature range:
K = -40 ... 125°C, L = -40 ... 150°C

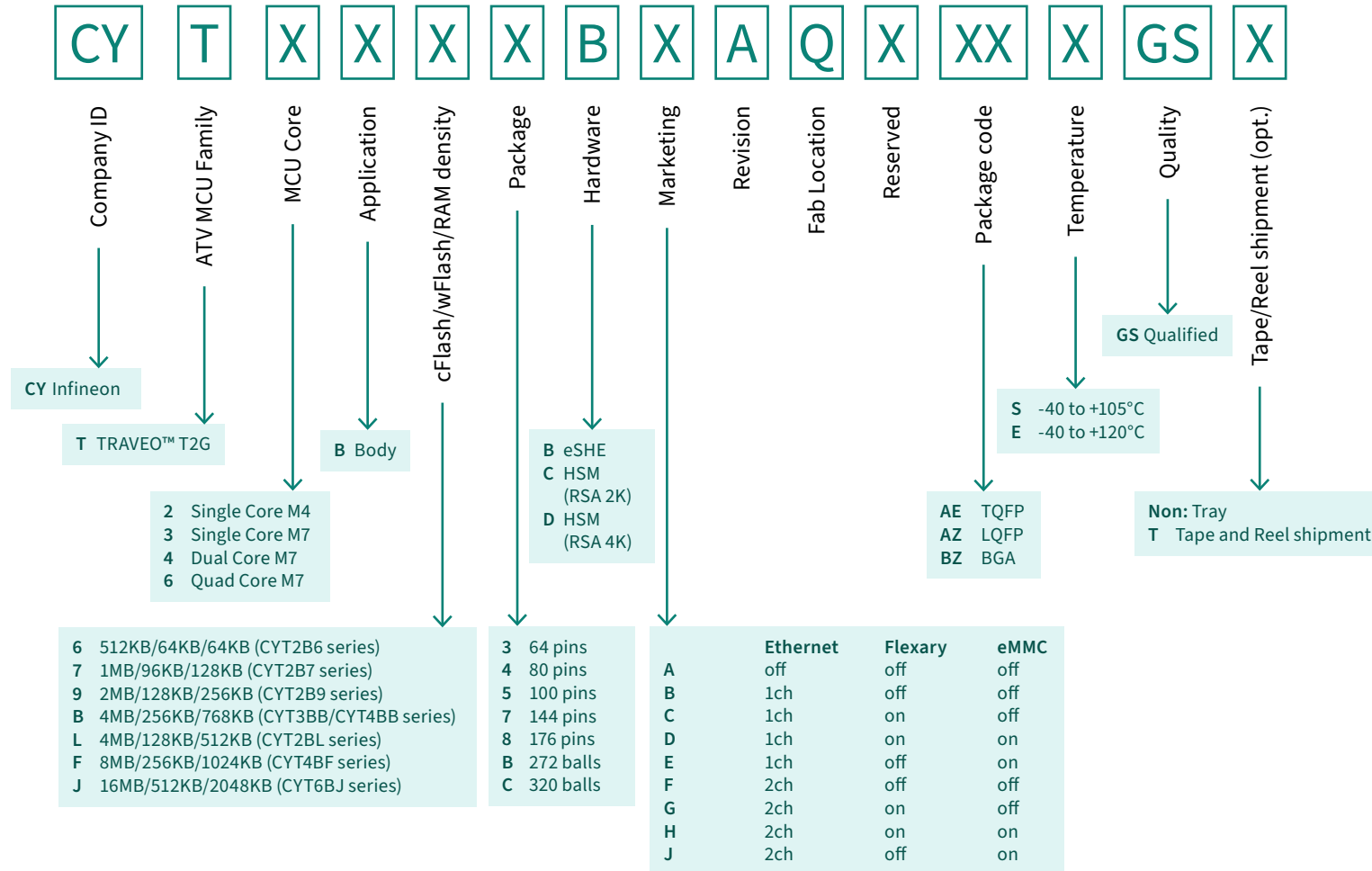
AURIX™ Microcontroller – TC4x family



AURIX™ Microcontroller – TC4x family

Product type	Markets			Package		Tri Core™		Program flash		Data flash			SRAM	DMA	Timer	Interfaces												Safety	Security	Power				
	Automotive	Industrial	Consumer	Temperature T _A [°C]	Package (Pitch)	# Cores/checker	Max frequency [MHz]	Size [MB]	Data retention	Physical size [kb]	Erase cycles	Data retention	Total (DMI, PMI) [KB]	Channels	GTM/CCU/GPT modules	FlexRay (#/ch.)	CAN-FD	Queued Synchronous Peripheral Interface (QSPI)	Asynchronous/Synchronous Interface (ASCLIN)	Inter-Integrated Circuit Bus Interface (I ² C)	Single Edge Nibble Transmission (SENT)	Peripheral Sensor Interface (PSI5)	PSI with Serial PHY Connection (PSI5S)	High-Speed Communication Tunnel (HSCT)	Micro Second Channel (MSC)	External bus interface e.g. ext. memory	Signal Processing Unit (SPU)	“Camera (incl. pixel preprocessing), and ext. ADC 16-bit interface (CIF)”	Ethernet MAC 100 Mbit/s	Gigabit Ethernet	SIL level	Hardware Security Module (HSM)	“Embedded Voltage Regulator (EVR) (5 V/3.3 V)”	Standby control unit Standby control unit
AURIX™ TC4x – family																																		
TC4D9XP-20MF500	•	•	-	125	BGA-436 (0.8 mm)	6/6	500	20	20 years	1024	250k	10 years	10016	128	eGTM/no/no	4	20	8	28	3	30	2	Yes	2	1	Yes	-	-	4	2 (5 Gbit)	ASIL-D	ISO-21434	Yes	Yes (8 bit)

TRAVEO™ T2G Body decoder



TRAVEO™ T2G Body

Ordering part number*	Package	Pin count	GPIO	Smart IO	Core		System						Debug	Supply voltage[V]	Operating temperature range TA[°C]	Memory		Analog	Timer			Communication						Ex. Interrupt	Safety	Security								
					Main Core type/ Crypto Core type -CM4F (Single Core with FPU) -CM7F (Single Core with FPU) -CM7E_D (Dual core with FPU) -CM7E_Q (Quad core with FPU)	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog				RTC channel	Temperature sensor		Debug Interface	Code Flash (KB)	Work Flash (KB)	SRAM (KB)	ADC Channel	32bit TCPWM	16bit TCPWM	16bit TCPWM (Motor control)	SCB channel			LIN channel	CAN FD channel	CXPI channel	I2S channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	SMIF (SPI/HyperBus)
TRAVEO™ T2G CYT2B6 Series																																						
CYT2B63BADQ0AZSGS	64-LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	80	Single precision	•	•	54/26/2	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	576	64	64	22	2	46	4	6	5	3	0	NA	0	NA	0	0	NA	49	ASIL-B	•	eSHE
CYT2B63BADQ0AZEGS	64-LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	80	Single precision	•	•	54/26/2	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	576	64	64	22	2	46	4	6	5	3	0	NA	0	NA	0	0	NA	49	ASIL-B	•	eSHE
CYT2B63CADQ0AZSGS	64-LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	80	Single precision	•	•	54/26/2	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	576	64	64	22	2	46	4	6	5	3	0	NA	0	NA	0	0	NA	49	ASIL-B	•	HSM
CYT2B63CADQ0AZEGS	64-LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	80	Single precision	•	•	54/26/2	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	576	64	64	22	2	46	4	6	5	3	0	NA	0	NA	0	0	NA	49	ASIL-B	•	HSM
CYT2B64BADQ0AZSGS	80-LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	80	Single precision	•	•	54/26/2	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	576	64	64	28	2	46	4	6	5	4	0	NA	0	NA	0	0	NA	63	ASIL-B	•	eSHE
CYT2B64BADQ0AZEGS	80-LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	80	Single precision	•	•	54/26/2	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	576	64	64	28	2	46	4	6	5	4	0	NA	0	NA	0	0	NA	63	ASIL-B	•	eSHE
CYT2B64CADQ0AZSGS	80-LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	80	Single precision	•	•	54/26/2	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	576	64	64	28	2	46	4	6	5	4	0	NA	0	NA	0	0	NA	63	ASIL-B	•	HSM
CYT2B64CADQ0AZEGS	80-LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	80	Single precision	•	•	54/26/2	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	576	64	64	28	2	46	4	6	5	4	0	NA	0	NA	0	0	NA	63	ASIL-B	•	HSM
CYT2B65BADQ0AZSGS	100-LQFP	100	78	16 (3port)	ARM_CM4F/CM0+	80	Single precision	•	•	54/26/2	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	576	64	64	32	2	46	4	6	5	4	0	NA	0	NA	0	0	NA	78	ASIL-B	•	eSHE
CYT2B65BADQ0AZEGS	100-LQFP	100	78	16 (3port)	ARM_CM4F/CM0+	80	Single precision	•	•	54/26/2	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	576	64	64	32	2	46	4	6	5	4	0	NA	0	NA	0	0	NA	78	ASIL-B	•	eSHE
CYT2B65CADQ0AZSGS	100-LQFP	100	78	16 (3port)	ARM_CM4F/CM0+	80	Single precision	•	•	54/26/2	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	576	64	64	32	2	46	4	6	5	4	0	NA	0	NA	0	0	NA	78	ASIL-B	•	HSM
CYT2B65CADQ0AZEGS	100-LQFP	100	78	16 (3port)	ARM_CM4F/CM0+	80	Single precision	•	•	54/26/2	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	576	64	64	32	2	46	4	6	5	4	0	NA	0	NA	0	0	NA	78	ASIL-B	•	HSM
TRAVEO™ T2G CYT2B7 Series																																						
CYT2B73BADQ0AZSGS	64-LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	1088	96	128	27	4	63	11	7	6	5	0	NA	0	NA	0	0	NA	49	ASIL-B	•	eSHE

*: Supported shipment types are "Tray" (default) and "Tape and Reel".
To order the "Tape and Reel" shipment type, add the character 'T' at the end of the ordering code.

TRAVEO™ T2G Body

Ordering part number*	Package	Pin count	GPIO	Smart IO	Core		System							Debug	Supply voltage[V]	Operating temperature range TA[°C]	Memory			Analog	Timer			Communication							Ex. Interrupt	Safety	Security					
					Main Core type/ Crypto Core type -CM4F (Single Core with FPU) -CM7F (Single Core with FPU) -CM7E_D (Dual core with FPU) -CM7E_Q (Quad core with FPU)	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel				Temperature sensor	Debug Interface	Code Flash (KB)		Work Flash (KB)	SRAM (KB)	ADC Channel	32bit TCPWM	16bit TCPWM	16bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel	CXPI channel			I2S channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	SMIF (SPI/HyperBus)
TRAVEO™ T2G CYT2B7 Series																																						
CYT2B73BADQ0AZEGS	64-LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	1088	96	128	27	4	63	11	7	6	5	0	NA	0	NA	0	0	NA	49	ASIL-B	•	eSHE
CYT2B73CADQ0AZSGS	64-LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	1088	96	128	27	4	63	11	7	6	5	0	NA	0	NA	0	0	NA	49	ASIL-B	•	HSM
CYT2B73CADQ0AZEGS	64-LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	1088	96	128	27	4	63	11	7	6	5	0	NA	0	NA	0	0	NA	49	ASIL-B	•	HSM
CYT2B74BADQ0AZSGS	80-LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	1088	96	128	34	4	63	12	8	7	6	0	NA	0	NA	0	0	NA	63	ASIL-B	•	eSHE
CYT2B74BADQ0AZEGS	80-LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	1088	96	128	34	4	63	12	8	7	6	0	NA	0	NA	0	0	NA	63	ASIL-B	•	eSHE
CYT2B74CADQ0AZSGS	80-LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	1088	96	128	34	4	63	12	8	7	6	0	NA	0	NA	0	0	NA	63	ASIL-B	•	HSM
CYT2B74CADQ0AZEGS	80-LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	1088	96	128	34	4	63	12	8	7	6	0	NA	0	NA	0	0	NA	63	ASIL-B	•	HSM
CYT2B75BADQ0AZSGS	100-LQFP	100	78	20 (4port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	1088	96	128	39	4	63	12	8	7	6	0	NA	0	NA	0	0	NA	78	ASIL-B	•	eSHE
CYT2B75BADQ0AZEGS	100-LQFP	100	78	20 (4port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	1088	96	128	39	4	63	12	8	7	6	0	NA	0	NA	0	0	NA	78	ASIL-B	•	eSHE
CYT2B75CADQ0AZSGS	100-LQFP	100	78	20 (4port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	1088	96	128	39	4	63	12	8	7	6	0	NA	0	NA	0	0	NA	78	ASIL-B	•	HSM
CYT2B75CADQ0AZEGS	100-LQFP	100	78	20 (4port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	1088	96	128	39	4	63	12	8	7	6	0	NA	0	NA	0	0	NA	78	ASIL-B	•	HSM
CYT2B77BADQ0AZSGS	144-LQFP	144	122	29 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	1088	96	128	54	4	63	12	8	8	6	0	NA	0	NA	0	0	NA	122	ASIL-B	•	eSHE
CYT2B77BADQ0AZEGS	144-LQFP	144	122	29 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	1088	96	128	54	4	63	12	8	8	6	0	NA	0	NA	0	0	NA	122	ASIL-B	•	eSHE
CYT2B77CADQ0AZSGS	144-LQFP	144	122	29 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	1088	96	128	54	4	63	12	8	8	6	0	NA	0	NA	0	0	NA	122	ASIL-B	•	HSM

*: Supported shipment types are “Tray” (default) and “Tape and Reel”.
To order the “Tape and Reel” shipment type, add the character ‘T’ at the end of the ordering code.

TRAVEO™ T2G Body

Ordering part number*	Package	Pin count	GPIO	Smart IO	Core		System							Debug	Supply voltage[V]	Operating temperature range TA[°C]	Memory		Analog	Timer			Communication						Ex. Interrupt	Safety		Security						
					Main Core type/ Crypto Core type -CM4F (Single Core with FPU) -CM7F (Single Core with FPU) -CM7E_D (Dual core with FPU) -CM7E_Q (Quad core with FPU)	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel				Temperature sensor	Debug Interface		Code Flash (KB)	Work Flash (KB)	SRAM (KB)	ADC Channel	32bit TCPWM	16bit TCPWM	16bit TCPWM (Motor control)	SCB channel	LIN channel		CAN FD channel	CXPI channel	I2S channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	SMIF (SPI/HyperBus)	External interrupt channel
TRAVEO™ T2G CYT2B7 Series																																						
CYT2B77CADQ0AZEGS	144-LQFP	144	122	29 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	1088	96	128	54	4	63	12	8	8	6	0	NA	0	NA	0	0	NA	122	ASIL-B	•	HSM
CYT2B78BADQ0AZSGS	176-LQFP	176	152	36 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	1088	96	128	64	4	63	12	8	8	6	0	NA	0	NA	0	0	NA	152	ASIL-B	•	eSHE
CYT2B78BADQ0AZEGS	176-LQFP	176	152	36 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	1088	96	128	64	4	63	12	8	8	6	0	NA	0	NA	0	0	NA	152	ASIL-B	•	eSHE
CYT2B78CADQ0AZSGS	176-LQFP	176	152	36 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	1088	96	128	64	4	63	12	8	8	6	0	NA	0	NA	0	0	NA	152	ASIL-B	•	HSM
CYT2B78CADQ0AZEGS	176-LQFP	176	152	36 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	89/33/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	1088	96	128	64	4	63	12	8	8	6	0	NA	0	NA	0	0	NA	152	ASIL-B	•	HSM
TRAVEO™ T2G CYT2B9 Series																																						
CYT2B93BACQ0AZSGS	64-LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	2112	128	256	27	8	63	11	7	7	5	2	NA	0	NA	0	0	NA	49	ASIL-B	•	eSHE
CYT2B93BACQ0AZEGS	64-LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	2112	128	256	27	8	63	11	7	7	5	2	NA	0	NA	0	0	NA	49	ASIL-B	•	eSHE
CYT2B93CACQ0AZSGS	64-LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	2112	128	256	27	8	63	11	7	7	5	2	NA	0	NA	0	0	NA	49	ASIL-B	•	HSM
CYT2B93CACQ0AZEGS	64-LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	2112	128	256	27	8	63	11	7	7	5	2	NA	0	NA	0	0	NA	49	ASIL-B	•	HSM
CYT2B94BACQ0AZSGS	80-LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	2112	128	256	34	8	63	12	8	9	7	3	NA	0	NA	0	0	NA	63	ASIL-B	•	eSHE
CYT2B94BACQ0AZEGS	80-LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	2112	128	256	34	8	63	12	8	9	7	3	NA	0	NA	0	0	NA	63	ASIL-B	•	eSHE
CYT2B94CACQ0AZSGS	80-LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	2112	128	256	34	8	63	12	8	9	7	3	NA	0	NA	0	0	NA	63	ASIL-B	•	HSM
CYT2B94CACQ0AZEGS	80-LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	2112	128	256	34	8	63	12	8	9	7	3	NA	0	NA	0	0	NA	63	ASIL-B	•	HSM

*: Supported shipment types are "Tray" (default) and "Tape and Reel".
To order the "Tape and Reel" shipment type, add the character 'T' at the end of the ordering code.

TRAVEO™ T2G Body

Ordering part number*	Package	Pin count	GPIO	Smart IO	Core				System					Debug	Supply voltage[V]	Operating temperature range TA[°C]	Memory			Analog	Timer				Communication						Ex. Interrupt	Safety		Security				
					Main Core type/ Crypto Core type -CM4F (Single Core with FPU) -CM7F (Single Core with FPU) -CM7E_D (Dual core with FPU) -CM7E_Q (Quad core with FPU)	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel				Temperature sensor	Debug Interface	Code Flash (KB)		Work Flash (KB)	SRAM (KB)	ADC Channel	32bit TCPWM	16bit TCPWM	16bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel	CXPI channel		I2S channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	SMIF (SPI/HyperBus)	External interrupt channel
TRAVEO™ T2G CYT2B9 Series																																						
CYT2B95BACQ0AZSGS	100-LQFP	100	78	20 (4port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	2112	128	256	39	8	63	12	8	9	8	4	NA	0	NA	0	0	NA	78	ASIL-B	•	eSHE
CYT2B95BACQ0AZECS	100-LQFP	100	78	20 (4port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	2112	128	256	39	8	63	12	8	9	8	4	NA	0	NA	0	0	NA	78	ASIL-B	•	eSHE
CYT2B95CACQ0AZSGS	100-LQFP	100	78	20 (4port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	2112	128	256	39	8	63	12	8	9	8	4	NA	0	NA	0	0	NA	78	ASIL-B	•	HSM
CYT2B95CACQ0AZECS	100-LQFP	100	78	20 (4port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	2112	128	256	39	8	63	12	8	9	8	4	NA	0	NA	0	0	NA	78	ASIL-B	•	HSM
CYT2B97BACQ0AZSGS	144-LQFP	144	122	29 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	2112	128	256	54	8	63	12	8	12	8	4	NA	0	NA	0	0	NA	122	ASIL-B	•	eSHE
CYT2B97BACQ0AZECS	144-LQFP	144	122	29 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	2112	128	256	54	8	63	12	8	12	8	4	NA	0	NA	0	0	NA	122	ASIL-B	•	eSHE
CYT2B97CACQ0AZSGS	144-LQFP	144	122	29 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	2112	128	256	54	8	63	12	8	12	8	4	NA	0	NA	0	0	NA	122	ASIL-B	•	HSM
CYT2B97CACQ0AZECS	144-LQFP	144	122	29 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	2112	128	256	54	8	63	12	8	12	8	4	NA	0	NA	0	0	NA	122	ASIL-B	•	HSM
CYT2B98BACQ0AZSGS	176-LQFP	176	152	36 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	2112	128	256	64	8	63	12	8	12	8	4	NA	0	NA	0	0	NA	152	ASIL-B	•	eSHE
CYT2B98BACQ0AZECS	176-LQFP	176	152	36 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	2112	128	256	64	8	63	12	8	12	8	4	NA	0	NA	0	0	NA	152	ASIL-B	•	eSHE
CYT2B98CACQ0AZSGS	176-LQFP	176	152	36 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	2112	128	256	64	8	63	12	8	12	8	4	NA	0	NA	0	0	NA	152	ASIL-B	•	HSM
CYT2B98CACQ0AZECS	176-LQFP	176	152	36 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	2112	128	256	64	8	63	12	8	12	8	4	NA	0	NA	0	0	NA	152	ASIL-B	•	HSM
TRAVEO™ T2G CYT2BL Series																																						
CYT2BL3BAAQ0AZSGS	64-LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	512	27	8	63	11	7	7	5	2	NA	0	NA	0	0	NA	49	ASIL-B	•	eSHE

*: Supported shipment types are “Tray” (default) and “Tape and Reel”.
To order the “Tape and Reel” shipment type, add the character ‘T’ at the end of the ordering code.

TRAVEO™ T2G Body

Ordering part number*	Package	Pin count	GPIO	Smart IO	Core		System							Debug	Supply voltage[V]	Operating temperature range TA[°C]	Memory			Analog	Timer			Communication							Ex. Interrupt	Safety		Security				
					Main Core type/ Crypto Core type -CM4F (Single Core with FPU) -CM7F (Single Core with FPU) -CM7E_D (Dual core with FPU) -CM7E_Q (Quad core with FPU)	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel				Temperature sensor	Debug Interface	Code Flash (KB)		Work Flash (KB)	SRAM (KB)	ADC Channel	32bit TCPWM	16bit TCPWM	16bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel	CXPI channel		I2S channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	SMIF (SPI/HyperBus)	External interrupt channel
TRAVEO™ T2G CYT2BL Series																																						
CYT2BL3BAAQ0AZEGS	64-LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	4160	128	512	27	8	63	11	7	7	5	2	NA	0	NA	0	0	NA	49	ASIL-B	•	eSHE
CYT2BL3CAAQ0AZSGS	64-LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	512	27	8	63	11	7	7	5	2	NA	0	NA	0	0	NA	49	ASIL-B	•	HSM
CYT2BL3CAAQ0AZEGS	64-LQFP	64	49	9 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	4160	128	512	27	8	63	11	7	7	5	2	NA	0	NA	0	0	NA	49	ASIL-B	•	HSM
CYT2BL4BAAQ0AZSGS	80-LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	512	34	8	63	12	8	9	7	3	NA	0	NA	0	0	NA	63	ASIL-B	•	eSHE
CYT2BL4BAAQ0AZEGS	80-LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	4160	128	512	34	8	63	12	8	9	7	3	NA	0	NA	0	0	NA	63	ASIL-B	•	eSHE
CYT2BL4CAAQ0AZSGS	80-LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	512	34	8	63	12	8	9	7	3	NA	0	NA	0	0	NA	63	ASIL-B	•	HSM
CYT2BL4CAAQ0AZEGS	80-LQFP	80	63	14 (3port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	4160	128	512	34	8	63	12	8	9	7	3	NA	0	NA	0	0	NA	63	ASIL-B	•	HSM
CYT2BL5BAAQ0AZSGS	100-LQFP	100	78	20 (4port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	512	39	8	63	12	8	9	8	4	NA	0	NA	0	0	NA	78	ASIL-B	•	eSHE
CYT2BL5BAAQ0AZEGS	100-LQFP	100	78	20 (4port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	4160	128	512	39	8	63	12	8	9	8	4	NA	0	NA	0	0	NA	78	ASIL-B	•	eSHE
CYT2BL5CAAQ0AZSGS	100-LQFP	100	78	20 (4port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	512	39	8	63	12	8	9	8	4	NA	0	NA	0	0	NA	78	ASIL-B	•	HSM
CYT2BL5CAAQ0AZEGS	100-LQFP	100	78	20 (4port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	4160	128	512	39	8	63	12	8	9	8	4	NA	0	NA	0	0	NA	78	ASIL-B	•	HSM
CYT2BL7BAAQ0AZSGS	144-LQFP	144	122	29 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	512	54	8	63	12	8	12	8	4	NA	0	NA	0	0	NA	122	ASIL-B	•	eSHE
CYT2BL7BAAQ0AZEGS	144-LQFP	144	122	29 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	4160	128	512	54	8	63	12	8	12	8	4	NA	0	NA	0	0	NA	122	ASIL-B	•	eSHE
CYT2BL7CAAQ0AZSGS	144-LQFP	144	122	29 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	512	54	8	63	12	8	12	8	4	NA	0	NA	0	0	NA	122	ASIL-B	•	HSM

*: Supported shipment types are "Tray" (default) and "Tape and Reel".
To order the "Tape and Reel" shipment type, add the character 'T' at the end of the ordering code.

TRAVEO™ T2G Body

Ordering part number*	Package	Pin count	GPIO	Smart IO	Core				System					Debug	Supply voltage[V]	Operating temperature range TA[°C]	Memory			Analog	Timer				Communication							Ex. Interrupt	Safety	Security					
					Main Core type/ Crypto Core type -CM4F (Single Core with FPU) -CM7F (Single Core with FPU) -CM7E_D (Dual core with FPU) -CM7E_Q (Quad core with FPU)	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel				Temperature sensor	Debug Interface	Code Flash (KB)		Work Flash (KB)	SRAM (KB)	ADC Channel	32bit TCPWM	16bit TCPWM	16bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel	CXPI channel	I2S channel			Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	SMIF (SPI/HyperBus)	External interrupt channel
TRAVEO™ T2G CYT2BL Series																																							
CYT2BL7CAAQ0AZEGS	144-LQFP	144	122	29 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	4160	128	512	54	8	63	12	8	12	8	4	NA	0	NA	0	0	NA	122	ASIL-B	•	HSM
CYT2BL8BAAQ1AZSGS	176-LQFP	176	152	36 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	512	64	8	63	12	8	12	8	4	NA	0	NA	0	0	NA	152	ASIL-B	•	eSHE
CYT2BL8BAAQ1AZEGS	176-LQFP	176	152	36 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	4160	128	512	64	8	63	12	8	12	8	4	NA	0	NA	0	0	NA	152	ASIL-B	•	eSHE
CYT2BL8CAAQ1AZSGS	176-LQFP	176	152	36 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	512	64	8	63	12	8	12	8	4	NA	0	NA	0	0	NA	152	ASIL-B	•	HSM
CYT2BL8CAAQ1AZEGS	176-LQFP	176	152	36 (5port)	ARM_CM4F/CM0+	160	Single precision	•	•	•	92/44/4	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	4160	128	512	64	8	63	12	8	12	8	4	NA	0	NA	0	0	NA	152	ASIL-B	•	HSM
TRAVEO™ T2G CYT3BB/4BB Series																																							
CYT3BB5CEBQ1AESGS	100-TE-QFP	100	72	15 (3port)	ARM_CM7F/CM0+	250	Dual precision	•	•	•	100/58/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	256	768	39	7	63	12	9	9	8	0	TX 2ch, RX 2ch (2 instances)	1	10/100	0	1	1	72	ASIL-B	•	HSM
CYT3BB5CEBQ1AEEGS	100-TE-QFP	100	72	15 (3port)	ARM_CM7F/CM0+	250	Dual precision	•	•	•	100/58/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	4160	256	768	39	7	63	12	9	9	8	0	TX 2ch, RX 2ch (2 instances)	1	10/100	0	1	1	72	ASIL-B	•	HSM
CYT3BB7CEBQ1AESGS	144-TE-QFP	144	116	27 (5port)	ARM_CM7F/CM0+	250	Dual precision	•	•	•	100/58/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	256	768	54	7	63	12	10	12	8	0	TX 3ch, RX 3ch (3 instances)	1	10/100	0	1	1	116	ASIL-B	•	HSM
CYT3BB7CEBQ1AEEGS	144-TE-QFP	144	116	27 (5port)	ARM_CM7F/CM0+	250	Dual precision	•	•	•	100/58/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	4160	256	768	54	7	63	12	10	12	8	0	TX 3ch, RX 3ch (3 instances)	1	10/100	0	1	1	116	ASIL-B	•	HSM
CYT3BB8CEBQ1AESGS	176-TE-QFP	176	148	36 (5port)	ARM_CM7F/CM0+	250	Dual precision	•	•	•	100/58/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	256	768	64	8	63	12	10	16	8	0	TX 3ch, RX 3ch (3 instances)	1	10/100	0	1	1	148	ASIL-B	•	HSM
CYT3BB8CEBQ1AEEGS	176-TE-QFP	176	148	36 (5port)	ARM_CM7F/CM0+	250	Dual precision	•	•	•	100/58/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	4160	256	768	64	8	63	12	10	16	8	0	TX 3ch, RX 3ch (3 instances)	1	10/100	0	1	1	148	ASIL-B	•	HSM
CYT3BB8CEBQ1BZSGS	272-BGA	272	220	36 (5port)	ARM_CM7F/CM0+	250	Dual precision	•	•	•	100/58/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	256	768	72	8	63	12	11	16	8	0	TX 3ch, RX 3ch (3 instances)	1	10/100	0	1	1	220	ASIL-B	•	HSM
CYT3BB8CEBQ1BZEGS	272-BGA	272	220	36 (5port)	ARM_CM7F/CM0+	250	Dual precision	•	•	•	100/58/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	4160	256	768	72	8	63	12	11	16	8	0	TX 3ch, RX 3ch (3 instances)	1	10/100	0	1	1	220	ASIL-B	•	HSM

*: Supported shipment types are "Tray" (default) and "Tape and Reel".
To order the "Tape and Reel" shipment type, add the character 'T' at the end of the ordering code.

TRAVEO™ T2G Body

Ordering part number*	Package	Pin count	GPIO	Smart IO	Core		System						Debug	Supply voltage[V]	Operating temperature range TA[°C]	Memory		Analog	Timer			Communication						Ex. Interrupt	Safety	Security								
					Main Core type/ Crypto Core type -CM4F (Single Core with FPU) -CM7F (Single Core with FPU) -CM7E_D (Dual core with FPU) -CM7E_Q (Quad core with FPU)	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog				RTC channel	Temperature sensor		Debug Interface	Code Flash (KB)	Work Flash (KB)	SRAM (KB)	ADC Channel	32bit TCPWM	16bit TCPWM	16bit TCPWM (Motor control)	SCB channel			LIN channel	CAN FD channel	CXPI channel	I2S channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	SMIF (SPI/HyperBus)
TRAVEO™ T2G CYT3BB/4BB Series																																						
CYT4BB5CEBQ1AESGS	100-TE-QFP	100	72	15 (3port)	ARM_CM7F_D/CM0+	250	Dual precision	•	•	100/58/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	256	768	39	7	63	12	9	9	8	0	TX 2ch, RX 2ch (2 instances)	1	10/100	0	1	1	72	ASIL-B	•	HSM
CYT4BB5CEBQ1AEEGS	100-TE-QFP	100	72	15 (3port)	ARM_CM7F_D/CM0+	250	Dual precision	•	•	100/58/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	4160	256	768	39	7	63	12	9	9	8	0	TX 2ch, RX 2ch (2 instances)	1	10/100	0	1	1	72	ASIL-B	•	HSM
CYT4BB7CEBQ1AESGS	144-TE-QFP	144	116	27 (5port)	ARM_CM7F_D/CM0+	250	Dual precision	•	•	100/58/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	256	768	54	7	63	12	10	12	8	0	TX 3ch, RX 3ch (3 instances)	1	10/100	0	1	1	116	ASIL-B	•	HSM
CYT4BB7CEBQ1AEEGS	144-TE-QFP	144	116	27 (5port)	ARM_CM7F_D/CM0+	250	Dual precision	•	•	100/58/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	4160	256	768	54	7	63	12	10	12	8	0	TX 3ch, RX 3ch (3 instances)	1	10/100	0	1	1	116	ASIL-B	•	HSM
CYT4BB8CEBQ1AESGS	176-TE-QFP	176	148	36 (5port)	ARM_CM7F_D/CM0+	250	Dual precision	•	•	100/58/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	256	768	64	8	63	12	10	16	8	0	TX 3ch, RX 3ch (3 instances)	1	10/100	0	1	1	148	ASIL-B	•	HSM
CYT4BB8CEBQ1AEEGS	176-TE-QFP	176	148	36 (5port)	ARM_CM7F_D/CM0+	250	Dual precision	•	•	100/58/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	4160	256	768	64	8	63	12	10	16	8	0	TX 3ch, RX 3ch (3 instances)	1	10/100	0	1	1	148	ASIL-B	•	HSM
CYT4BBBCEBQ1BZSGS	272-BGA	272	220	36 (5port)	ARM_CM7F_D/CM0+	250	Dual precision	•	•	100/58/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	256	768	72	8	63	12	11	16	8	0	TX 3ch, RX 3ch (3 instances)	1	10/100	0	1	1	220	ASIL-B	•	HSM
CYT4BBBCEBQ1BZEGS	272-BGA	272	220	36 (5port)	ARM_CM7F_D/CM0+	250	Dual precision	•	•	100/58/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	4160	256	768	72	8	63	12	11	16	8	0	TX 3ch, RX 3ch (3 instances)	1	10/100	0	1	1	220	ASIL-B	•	HSM
TRAVEO™ T2G CYT4BF Series																																						
CYT4BF8CEDQ0AESGS	176-TE-QFP	176	148	36 (5port)	ARM_CM7F_D/CM0+	350	Dual precision	•	•	143/65/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	8384	256	1024	81	16	87	15	10	17	10	0	TX 3ch, RX 3ch (3 instances)	1	10/100	0	1	1	148	ASIL-B	•	HSM
CYT4BF8CEDQ0AEEGS	176-TE-QFP	176	148	36 (5port)	ARM_CM7F_D/CM0+	350	Dual precision	•	•	143/65/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	8384	256	1024	81	16	87	15	10	17	10	0	TX 3ch, RX 3ch (3 instances)	1	10/100	0	1	1	148	ASIL-B	•	HSM
CYT4BF8CDDQ0AESGS	176-TE-QFP	176	148	36 (5port)	ARM_CM7F_D/CM0+	350	Dual precision	•	•	143/65/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	8384	256	1024	81	16	87	15	10	17	10	0	TX 3ch, RX 3ch (3 instances)	1	10/100	2	1	1	148	ASIL-B	•	HSM
CYT4BF8CDDQ0AEEGS	176-TE-QFP	176	148	36 (5port)	ARM_CM7F_D/CM0+	350	Dual precision	•	•	143/65/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	8384	256	1024	81	16	87	15	10	17	10	0	TX 3ch, RX 3ch (3 instances)	1	10/100	2	1	1	148	ASIL-B	•	HSM
CYT4BFBCJDQ0BZSGS	272-BGA	272	220	36 (5port)	ARM_CM7F_D/CM0+	350	Dual precision	•	•	143/65/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	8384	256	1024	96	16	87	15	11	20	10	0	TX 3ch, RX 3ch (3 instances)	2	10/100/1000	0	1	1	220	ASIL-B	•	HSM

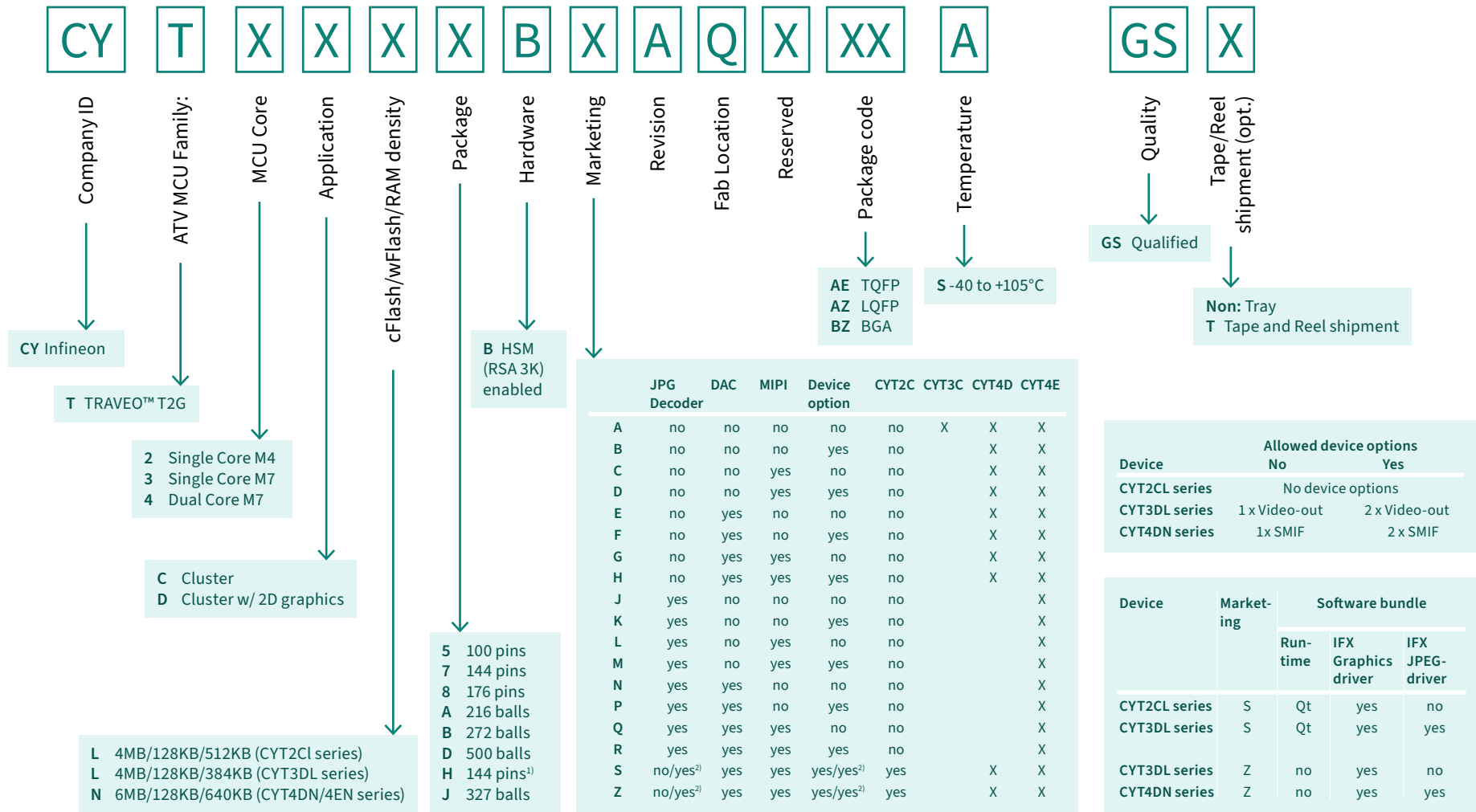
*: Supported shipment types are "Tray" (default) and "Tape and Reel".
To order the "Tape and Reel" shipment type, add the character 'T' at the end of the ordering code.

TRAVEO™ T2G Body

Ordering part number*	Package	Pin count	GPIO	Smart IO	Core		System							Debug	Supply voltage[V]	Operating temperature range TA[°C]	Memory		Analog	Timer			Communication							Ex. Interrupt	Safety	Security								
					Main Core type/ Crypto Core type -CM4F (Single Core with FPU) -CM7F (Single Core with FPU) -CM7E_D (Dual core with FPU) -CM7E_Q (Quad core with FPU)	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel				Temperature sensor	Debug Interface		Code Flash (KB)	Work Flash (KB)	SRAM (KB)	ADC Channel	32bit TCPWM	16bit TCPWM	16bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel			CXPI channel	I2S channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	SMIF (SPI/HyperBus)	External interrupt channel	SIL level
TRAVEO™ T2G CYT4BF Series																																								
CYT4BFBCJDQ0BZEGS	272-BGA	272	220	36 (5port)	ARM_CM7F_D/CM0+	350	Dual precision	•	•	•	•	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	8384	256	1024	96	16	87	15	11	20	10	0	TX 3ch, RX 3ch (3 instances)	2	10/100/1000	0	1	1	220	ASIL-B	•	HSM
CYT4BFBCDQ0BZSGS	272-BGA	272	220	36 (5port)	ARM_CM7F_D/CM0+	350	Dual precision	•	•	•	•	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	8384	256	1024	96	16	87	15	11	20	10	0	TX 3ch, RX 3ch (3 instances)	2	10/100/1000	2	1	1	220	ASIL-B	•	HSM
CYT4BFBCDQ0BZEGS	272-BGA	272	220	36 (5port)	ARM_CM7F_D/CM0+	350	Dual precision	•	•	•	•	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	8384	256	1024	96	16	87	15	11	20	10	0	TX 3ch, RX 3ch (3 instances)	2	10/100/1000	2	1	1	220	ASIL-B	•	HSM
CYT4BFCCJDQ0BZSGS	320-BGA	320	240	36 (5port)	ARM_CM7F_D/CM0+	350	Dual precision	•	•	•	•	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	8384	256	1024	96	16	87	15	11	20	10	0	TX 3ch, RX 3ch (3 instances)	2	10/100/1000	0	1	1	240	ASIL-B	•	HSM
CYT4BFCCJDQ0BZEGS	320-BGA	320	240	36 (5port)	ARM_CM7F_D/CM0+	350	Dual precision	•	•	•	•	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	8384	256	1024	96	16	87	15	11	20	10	0	TX 3ch, RX 3ch (3 instances)	2	10/100/1000	0	1	1	240	ASIL-B	•	HSM
CYT4BFCCDQ0BZSGS	320-BGA	320	240	36 (5port)	ARM_CM7F_D/CM0+	350	Dual precision	•	•	•	•	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	8384	256	1024	96	16	87	15	11	20	10	0	TX 3ch, RX 3ch (3 instances)	2	10/100/1000	2	1	1	240	ASIL-B	•	HSM
CYT4BFCCDQ0BZEGS	320-BGA	320	240	36 (5port)	ARM_CM7F_D/CM0+	350	Dual precision	•	•	•	•	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	8384	256	1024	96	16	87	15	11	20	10	0	TX 3ch, RX 3ch (3 instances)	2	10/100/1000	2	1	1	240	ASIL-B	•	HSM
TRAVEO™ T2G CYT6BJ Series																																								
CYT6BJ8DDA0AESGS	176-TE-QFP	176	145	36 (5port)	ARM_CM7F_Q/CM0+	320	Dual precision	•	•	•	•	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	16768	512	2048	77	16	87	15	10	17	10	0	TX 3ch, RX 2ch (3 instances)	1	10/100	2	1	1	145	ASIL-B	•	HSM
CYT6BJ8DDA0AEEGS	176-TE-QFP	176	145	36 (5port)	ARM_CM7F_Q/CM0+	320	Dual precision	•	•	•	•	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	16768	512	2048	77	16	87	15	10	17	10	0	TX 3ch, RX 2ch (3 instances)	1	10/100	2	1	1	145	ASIL-B	•	HSM
CYT6BJBDHAQ0BZSGS	272-BGA	272	221	36 (5port)	ARM_CM7F_Q/CM0+	320	Dual precision	•	•	•	•	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	16768	512	2048	96	16	87	15	11	20	10	0	TX 3ch, RX 2ch (3 instances)	2	10/100/1000	2	1	1	220	ASIL-B	•	HSM
CYT6BJBDHAQ0BZEGS	272-BGA	272	221	36 (5port)	ARM_CM7F_Q/CM0+	320	Dual precision	•	•	•	•	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	16768	512	2048	96	16	87	15	11	20	10	0	TX 3ch, RX 2ch (3 instances)	2	10/100/1000	2	1	1	220	ASIL-B	•	HSM
CYT6BJCDHAQ0BZSGS	320-BGA	320	241	36 (5port)	ARM_CM7F_Q/CM0+	320	Dual precision	•	•	•	•	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	16768	512	2048	96	16	87	15	11	20	10	0	TX 3ch, RX 2ch (3 instances)	2	10/100/1000	2	1	1	240	ASIL-B	•	HSM
CYT6BJCDHAQ0BZEGS	320-BGA	320	241	36 (5port)	ARM_CM7F_Q/CM0+	320	Dual precision	•	•	•	•	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 125	16768	512	2048	96	16	87	15	11	20	10	0	TX 3ch, RX 2ch (3 instances)	2	10/100/1000	2	1	1	240	ASIL-B	•	HSM

*: Supported shipment types are "Tray" (default) and "Tape and Reel".
To order the "Tape and Reel" shipment type, add the character 'T' at the end of the ordering code.

TRAVEO™ T2G Cluster decoder



¹⁾ 0.4mm pitch

²⁾ CY3DL/CY4DN

TRAVEO™ T2G Cluster

Ordering part number*	Package	Pin count	GPIO	Smart IO	Core		System					Debug		Supply voltage[V]	Operating temperature range TA[°C]	Memory			Analog	Timer	Communication										External	Graphics							LC	Safety	Security												
					Main Core type/ Crypto Core type	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel			Temperature sensor	Debug interface	Code Flash (KB)			Work Flash (KB)	SRAM (KB)	ADC Channel	32bit TCPWM	16bit TCPWM	16bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel	CXPI channel		I ² S channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	SMIF (SPI/HyperBus)	External interrupt channel				MIPI-D-PHY	LVDS TX PHY	LPDDR4/DDR3 PHY	Graphics	2.5 D Engine (IRIS on-the-fly)	Video-In	Video-out	Drawing engine	VRAM	VRAM Protection	JPEG Decoder	LCDC
TRAVEO™ T2G CYT4DN Series																																																					
CYT4DNJBA CQ1BZSGS	327-BGA	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to5.5	-40 to105	6336	128	640	48	32	50	0	12	2	4	2	4	2	4	1	10/100/1000	0	0	1	168	0	2 x single / 1 x dual	NA	•	•	•	1	2	•	4 MB	•	0	NA	ASIL-B	•	HSM
CYT4DNJBB CQ1BZSGS	327-BGA	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to5.5	-40 to105	6336	128	640	48	32	50	0	12	2	4	2	4	2	4	1	10/100/1000	0	0	2	168	0	2 x single / 1 x dual	NA	•	•	•	1	2	•	4 MB	•	0	NA	ASIL-B	•	HSM
CYT4DNJBC CQ1BZSGS	327-BGA	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to5.5	-40 to105	6336	128	640	48	32	50	0	12	2	4	2	4	2	4	1	10/100/1000	0	0	1	168	1	2 x single / 1 x dual	NA	•	•	•	1	2	•	4 MB	•	0	NA	ASIL-B	•	HSM
CYT4DNJBD CQ1BZSGS	327-BGA	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to5.5	-40 to105	6336	128	640	48	32	50	0	12	2	4	2	4	2	4	1	10/100/1000	0	0	2	168	1	2 x single / 1 x dual	NA	•	•	•	1	2	•	4 MB	•	0	NA	ASIL-B	•	HSM
CYT4DNJBE CQ1BZSGS	327-BGA	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to5.5	-40 to105	6336	128	640	48	32	50	0	12	2	4	2	4	2	4	1	10/100/1000	0	0	1	168	0	2 x single / 1 x dual	NA	•	•	•	1	2	•	4 MB	•	0	NA	ASIL-B	•	HSM
CYT4DNJBF CQ1BZSGS	327-BGA	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to5.5	-40 to105	6336	128	640	48	32	50	0	12	2	4	2	4	2	4	1	10/100/1000	0	0	2	168	0	2 x single / 1 x dual	NA	•	•	•	1	2	•	4 MB	•	0	NA	ASIL-B	•	HSM
CYT4DNJBG CQ1BZSGS	327-BGA	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to5.5	-40 to105	6336	128	640	48	32	50	0	12	2	4	2	4	2	4	1	10/100/1000	0	0	1	168	1	2 x single / 1 x dual	NA	•	•	•	1	2	•	4 MB	•	0	NA	ASIL-B	•	HSM
CYT4DNJBH CQ1BZSGS	327-BGA	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to5.5	-40 to105	6336	128	640	48	32	50	0	12	2	4	2	4	2	4	1	10/100/1000	0	0	2	168	1	2 x single / 1 x dual	NA	•	•	•	1	2	•	4 MB	•	0	NA	ASIL-B	•	HSM
CYT4DNJBJ CQ1BZSGS	327-BGA	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to5.5	-40 to105	6336	128	640	48	32	50	0	12	2	4	2	4	2	4	1	10/100/1000	0	0	1	168	0	2 x single / 1 x dual	NA	•	•	•	1	2	•	4 MB	•	1	NA	ASIL-B	•	HSM
CYT4DNJBK CQ1BZSGS	327-BGA	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to5.5	-40 to105	6336	128	640	48	32	50	0	12	2	4	2	4	2	4	1	10/100/1000	0	0	2	168	0	2 x single / 1 x dual	NA	•	•	•	1	2	•	4 MB	•	1	NA	ASIL-B	•	HSM
CYT4DNJBL CQ1BZSGS	327-BGA	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to5.5	-40 to105	6336	128	640	48	32	50	0	12	2	4	2	4	2	4	1	10/100/1000	0	0	1	168	1	2 x single / 1 x dual	NA	•	•	•	1	2	•	4 MB	•	1	NA	ASIL-B	•	HSM
CYT4DNJBM CQ1BZSGS	327-BGA	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to5.5	-40 to105	6336	128	640	48	32	50	0	12	2	4	2	4	2	4	1	10/100/1000	0	0	2	168	1	2 x single / 1 x dual	NA	•	•	•	1	2	•	4 MB	•	1	NA	ASIL-B	•	HSM
CYT4DNJBN CQ1BZSGS	327-BGA	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to5.5	-40 to105	6336	128	640	48	32	50	0	12	2	4	2	4	2	4	1	10/100/1000	0	0	1	168	0	2 x single / 1 x dual	NA	•	•	•	1	2	•	4 MB	•	1	NA	ASIL-B	•	HSM

*: Supported shipment types are “Tray” (default) and “Tape and Reel”.
To order the “Tape and Reel” shipment type, add the character ‘T’ at the end of the ordering code.

TRAVEO™ T2G Cluster

Ordering part number*					Core		System					Debug		Memory		Analog	Timer	Communication										External	Graphics					LC	Safety	Security														
Package	Pin count	GPIO	Smart IO	Main Core type/ Crypto Core type	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog	RTC channel	Temperature sensor	Debug interface	Supply voltage[V]	Operating temperature range TA[°C]	Code Flash (KB)	Work Flash (KB)	SRAM (KB)	ADC Channel	32bit TCPWM	16bit TCPWM	16bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel	CXPI channel	I ² S channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	SMIF (SPI/HyperBus)	External interrupt channel	MIPI-D-PHY	LVDS TX PHY	LPDDR4/DDR3 PHY	Graphics	2.5 D Engine (IRIS on-the-fly)	Video-In	Video-out	Drawing engine	VRAM	VRAM Protection	JPEG Decoder	LCDC	SIL level	Flash Security	eSHE/HSM	
TRAVEO™ T2G CYT4DN Series																																																		
CYT4DNJBPCQ1BZSGS	327-BGA	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100	0	0	2	168	0	2 x single / 1 x dual	NA	•	•	1	2	•	4 MB	•	1	NA	ASIL-B	•	HSM
CYT4DNJBQCQ1BZSGS	327-BGA	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100	0	0	1	168	1	2 x single / 1 x dual	NA	•	•	1	2	•	4 MB	•	1	NA	ASIL-B	•	HSM
CYT4DNJBRCQ1BZSGS	327-BGA	327	168	8 (1port)	ARM_CM7F_D/CM0+	320	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	6336	128	640	48	32	50	0	12	2	4	2	4	1	10/100	0	0	2	168	1	2 x single / 1 x dual	NA	•	•	1	2	•	4 MB	•	1	NA	ASIL-B	•	HSM
TRAVEO™ T2G CYT3DL Series																																																		
CYT3DLBBABQ1BZSGS	272-BGA	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	384	48	32	50	0	12	2	4	2	4	1	10/100	0	0	2	135	0	1 x single	NA	•	•	1	1	•	2 MB	•	0	NA	ASIL-B	•	HSM
CYT3DLBBBQ1BZSGS	272-BGA	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	384	48	32	50	0	12	2	4	2	4	1	10/100	0	0	2	135	0	1 x single	NA	•	•	1	2	•	2 MB	•	0	NA	ASIL-B	•	HSM
CYT3DLBBABQ1BZSGS	272-BGA	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	384	48	32	50	0	12	2	4	2	4	1	10/100	0	0	2	135	1	1 x single	NA	•	•	1	1	•	2 MB	•	0	NA	ASIL-B	•	HSM
CYT3DLBBBQ1BZSGS	272-BGA	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	384	48	32	50	0	12	2	4	2	4	1	10/100	0	0	2	135	1	1 x single	NA	•	•	1	2	•	2 MB	•	0	NA	ASIL-B	•	HSM
CYT3DLBBABQ1BZSGS	272-BGA	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	384	48	32	50	0	12	2	4	2	4	1	10/100	0	0	2	135	0	1 x single	NA	•	•	1	1	•	2 MB	•	0	NA	ASIL-B	•	HSM
CYT3DLBBBQ1BZSGS	272-BGA	272	135	8 (1port)	ARM_CM7F/CM0+	240	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	384	48	32	50	0	12	2	4	2	4	1	10/100	0	0	2	135	1	1 x single	NA	•	•	1	2	•	2 MB	•	0	NA	ASIL-B	•	HSM
CYT3DLBBABQ1BZSGS	216-TEQFP	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double-precision	•	•	76/84/8	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	384	48	32	50	0	12	2	4	2	4	1	10/100	0	0	2	108	0	1 x single	NA	•	•	1	1	•	2 MB	•	0	NA	ASIL-B	•	HSM

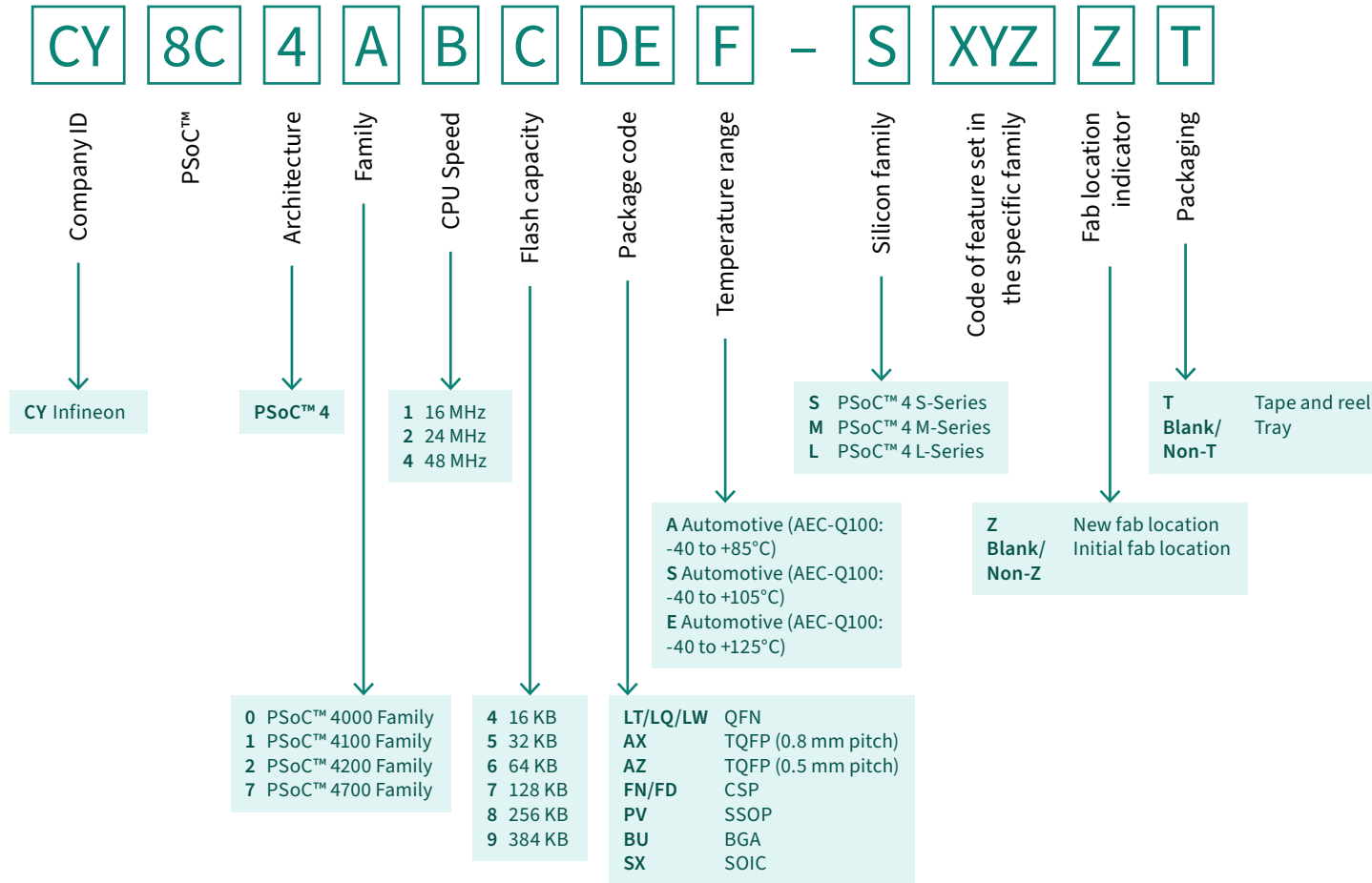
*: Supported shipment types are “Tray” (default) and “Tape and Reel”.
To order the “Tape and Reel” shipment type, add the character ‘T’ at the end of the ordering code.

TRAVEO™ T2G Cluster

Ordering part number*	Package	Pin count	GPIO	Smart IO	Core		System					Debug		Supply voltage[V]	Operating temperature range TA[°C]	Memory			Analog	Timer	Communication										External	Graphics							LCDC	Safety	Security												
					Main Core type/Crypto Core type	-CM4F (Single Core with FPU) -CM7F (Single Core with FPU) -CM7F_D (Dual core with FPU)	Main Core frequency [MHz]	FPU	MPU	PPU	DMA (P-DMA0/P-DMA1/M-DMA0)	RC-OSC	Hardware Watchdog			RTC channel	Temperature sensor	Debug Interface			Code Flash (KB)	Work Flash (KB)	SRAM (KB)	ADC Channel	32bit TCPWM	16bit TCPWM	16bit TCPWM (Motor control)	SCB channel	LIN channel	CAN FD channel		CXPI channel	I ² S channel	Ethernet channel	Ethernet speed	FlexRay channel	eMMC channel	SMIF (SPI/HyperBus)				External Interrupt channel	MIPID-PHY	LVDS TX PHY	LPDDR4/DDR3 PHY	Graphics	2.5 D Engine (IRIS on-the-fly)	Video-In	Video-out	Drawing engine	VRAM	VRAM Protection	JPEG Decoder
TRAVEO™ T2G CYT3DL Series																																																					
CYT3DLBBA BQ1BZSGS	216-TEQFP	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double-precision	•	•	76/84/8	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	384	48	32	50	0	12	2	4	2	4	1	10/100	0	0	2	108	0	1 x single	NA	•	•	•	1	2	•	2 MB	•	0	NA	ASIL-B	•	HSM	
CYT3DLABC BQ1AESGS	216-TEQFP	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double-precision	•	•	76/84/8	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	384	48	32	50	0	12	2	4	2	4	1	10/100	0	0	2	108	1	1 x single	NA	•	•	•	1	1	•	2 MB	•	0	NA	ASIL-B	•	HSM	
CYT3DLABD BQ1AESGS	216-TEQFP	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double-precision	•	•	76/84/8	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	384	48	32	50	0	12	2	4	2	4	1	10/100	0	0	2	108	1	1 x single	NA	•	•	•	1	2	•	2 MB	•	0	NA	ASIL-B	•	HSM	
CYT3DLABE BQ1AESGS	216-TEQFP	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double-precision	•	•	76/84/8	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	384	48	32	50	0	12	2	4	2	4	1	10/100	0	0	2	108	0	1 x single	NA	•	•	•	1	1	•	2 MB	•	0	NA	ASIL-B	•	HSM	
CYT3DLABF BQ1AESGS	216-TEQFP	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double-precision	•	•	76/84/8	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	384	48	32	50	0	12	2	4	2	4	1	10/100	0	0	2	108	0	1 x single	NA	•	•	•	1	2	•	2 MB	•	0	NA	ASIL-B	•	HSM	
CYT3DLABG BQ1AESGS	216-TEQFP	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double-precision	•	•	76/84/8	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	384	48	32	50	0	12	2	4	2	4	1	10/100	0	0	2	108	1	1 x single	NA	•	•	•	1	1	•	2 MB	•	0	NA	ASIL-B	•	HSM	
CYT3DLABH BQ1AESGS	216-TEQFP	216	108	8 (1port)	ARM_CM7F/CM0+	240	Double-precision	•	•	76/84/8	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	384	48	32	50	0	12	2	4	2	4	1	10/100	0	0	2	108	1	1 x single	NA	•	•	•	1	2	•	2 MB	•	0	NA	ASIL-B	•	HSM	
TRAVEO™ T2G CYT2CL Series																																																					
CYT2CL7BA AQ0AZSGS	144-LQFP	144	108	8 (1port)	ARM_CM4F/CM0+	160	Double-precision	•	•	76/84/4	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	512	48	16	46	0	12	2	4	2	2	0	NA	0	0	1	108	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	2seg x 4com	ASIL-B	•	HSM
CYT2CLHBA AQ0AZSGS	144-LQFP	1440.4 mm	108	8 (1port)	ARM_CM4F/CM0+	160	Double-precision	•	•	76/84/4	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	512	48	16	46	0	12	2	4	2	2	0	NA	0	0	1	108	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	2seg x 4com	ASIL-B	•	HSM	
CYT2CL8BA AQ0AZSGS	176-LQFP	176	140	8 (1port)	ARM_CM4F/CM0+	160	Double-precision	•	•	76/84/4	•	•	•	1	•	SWD/JTAG/Trace	2.7 to 5.5	-40 to 105	4160	128	512	48	16	46	0	12	2	4	2	2	0	NA	0	0	1	140	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	2seg x 4com	ASIL-B	•	HSM		

*: Supported shipment types are “Tray” (default) and “Tape and Reel”.
To order the “Tape and Reel” shipment type, add the character ‘T’ at the end of the ordering code.

Automotive PSoC™ 4 decoder



Automotive PSoC™ 4 Series

Product type/ part number	Features																			Packages										Operating Temp.												
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C				
PSoC™ 4000-Series																																										
CY8C4014SXA-421/Z	16	16	2	-	-	•	-	-	-	-	1	1	1	-	-	-	-	-	-	-	10	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-			
CY8C4014LQA-422	16	16	2	-	-	•	-	-	-	-	1	1	1	-	-	-	-	-	-	-	16	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-		
CY8C4014LQA-422/Z	16	16	2	-	-	•	-	-	-	-	1	1	1	-	-	-	-	-	-	-	16	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-		
CY8C4014SXS-421/Z	16	16	2	-	-	•	-	-	-	-	1	1	1	-	-	-	-	-	-	-	10	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-		
CY8C4014LQS-422	16	16	2	-	-	•	-	-	-	-	1	1	1	-	-	-	-	-	-	-	16	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-		
CY8C4014LQS-422/Z	16	16	2	-	-	•	-	-	-	-	1	1	1	-	-	-	-	-	-	-	16	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-		
CY8C4014LQE-422/Z	16	16	2	-	-	•	-	-	-	-	1	1	1	-	-	-	-	-	-	-	16	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•		
PSoC™ 4100-Series																																										
CY8C4124PVA-442/Z	24	16	4	-	1	•	-	-	•	806 Ksps	2	4	2	-	-	-	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4125PVA-482	24	32	4	-	1	•	-	-	•	806 Ksps	2	4	2	-	-	-	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4125PVA-482/Z	24	32	4	-	1	•	-	-	•	806 Ksps	2	4	2	-	-	-	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4124PVS-442/Z	24	16	4	-	1	•	-	-	•	806 Ksps	2	4	2	-	-	-	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4125PVS-482/Z	24	32	4	-	1	•	-	-	•	806 Ksps	2	4	2	-	-	-	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
PSoC™ 4200-Series																																										
CY8C4244PVA-442Z	48	16	4	2	1	•	-	-	•	1000 Ksps	2	4	2	-	-	-	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4245PVA-452Z	48	32	4	4	-	-	-	-	•	-	0	4	2	-	-	-	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4245PVA-472Z	48	32	4	4	1	-	-	-	•	1000Ksps	2	4	2	-	-	-	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4245PVA-482	48	32	4	4	1	•	-	-	•	1000 Ksps	2	4	2	-	-	-	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4245PVA-482Z	48	32	4	4	1	•	-	-	•	1000 Ksps	2	4	2	-	-	-	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-

Automotive PSoC™ 4 Series

Product type/ part number	Features																			Packages										Operating Temp.									
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C	
PSoc™ 4200-Series																																							
CY8C4244PVS-442Z	48	16	4	2	1	●	-	-	●	1000 Ksps	2	4	2	-	-	-	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4245PVS-452Z	48	32	4	4	-	-	-	-	●	-	0	4	2	-	-	-	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4245PVS-472Z	48	32	4	4	1	-	-	-	●	1000 Ksps	2	4	2	-	-	-	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4245PVS-482Z	48	32	4	4	1	●	-	-	●	1000 Ksps	2	4	2	-	-	-	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	●	-
PSoc™ 4100M-Series																																							
CY8C4125AZA-M443	24	32	4	-	2	●	-	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4125AZA-M445	24	32	4	-	2	●	-	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4126AZA-M443	24	64	8	-	2	●	-	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4126AZA-M445	24	64	8	-	2	●	-	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4127AZA-M485	24	128	16	-	4	●	-	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4125AZS-M443	24	32	4	-	2	●	-	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4125AZS-M445	24	32	4	-	2	●	-	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4126AZS-M443	24	64	8	-	2	●	-	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4126AZS-M445	24	64	8	-	2	●	-	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4127AZS-M485	24	128	16	-	4	●	-	-	●	806 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4245AZA-M443	48	32	4	4	2	●	-	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4245AZA-M445	48	32	4	4	2	●	-	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4246AZA-M443	48	64	8	4	2	●	-	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4246AZA-M445	48	64	8	4	2	●	-	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-

Automotive PSoC™ 4 Series

Product type/ part number	Features																	Packages											Operating Temp.														
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C					
PSoC™ 4200M-Series																																											
CY8C4247LWA-M464	48	128	16	4	4	●	-	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	46	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-			
CY8C4247AZA-M475	48	128	16	4	4	-	-	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	●	-	-			
CY8C4247AZA-M483	48	128	16	4	4	●	-	-	●	1000 Ksps	2	8	4	●	-	-	2	-	-	-	38	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-			
CY8C4247AZA-M485	48	128	16	4	4	●	-	-	●	1000 Ksps	2	8	4	●	-	-	2	-	-	-	51	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	●	-	-		
CY8C4247LWA-M484	48	128	16	4	4	●	-	-	●	1000 Ksps	2	8	4	●	-	-	2	-	-	-	46	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-			
CY8C4245AZS-M443	48	32	4	4	2	●	-	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	38	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	●	-	-		
CY8C4245AZS-M445	48	32	4	4	2	●	-	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	●	-	-	
CY8C4246AZS-M443	48	64	8	4	2	●	-	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	38	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-	
CY8C4246AZS-M445	48	64	8	4	2	●	-	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-
CY8C4247LWS-M464	48	128	16	4	4	●	-	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	46	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-	
CY8C4247AZS-M475	48	128	16	4	4	-	-	-	●	1000 Ksps	2	8	4	●	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-
CY8C4247AZS-M483	48	128	16	4	4	●	-	-	●	1000 Ksps	2	8	4	●	-	-	2	-	-	-	38	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	-	
CY8C4247AZS-M485	48	128	16	4	4	●	-	-	●	1000 Ksps	2	8	4	●	-	-	2	-	-	-	51	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	●	-	-
CY8C4247LWS-M484	48	128	16	4	4	●	-	-	●	1000 Ksps	2	8	4	●	-	-	2	-	-	-	46	-	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	●	-	-
PSoC™ 4000S-Series																																											
CY8C4024LQA-S411	24	16	2	-	-	●	-	-	-	-	2	5	2	-	-	-	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	
CY8C4024PVA-S412	24	16	2	-	-	●	-	-	-	-	2	5	2	-	-	-	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	
CY8C4025LQA-S411	24	32	4	-	-	●	-	-	-	-	2	5	2	-	-	-	-	-	-	-	19	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	
CY8C4025PVA-S412	24	32	4	-	-	●	-	-	-	-	2	5	2	-	-	-	-	-	-	-	24	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	

Automotive PSoC™ 4 Series

Product type/ part number	Features																			Packages												Operating Temp.							
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C	
PSoC™ 4000S-Series																																							
CY8C4045LQA-S411	48	32	4	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	-	19	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4045PVA-S412	48	32	4	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4024LQS-S411	24	16	2	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	-	19	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4024PVS-S412	24	16	2	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4025LQS-S411	24	32	4	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	-	19	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4025PVS-S412	24	32	4	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4045LQS-S411	48	32	4	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	-	19	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4045PVS-S412	48	32	4	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4024LQA-S413	24	16	2	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4025LQA-S413	24	32	4	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4045LQA-S413	48	32	4	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4024LQS-S413	24	16	2	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4025LQS-S413	24	32	4	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4045LQS-S413	48	32	4	-	-	•	-	-	-	-	2	5	2	-	-	-	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
PSoC™ 4100S-Series																																							
CY8C4124PVA-S412	24	16	4	-	2	•	-	-	-	•	-	2	5	2	-	-	16	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4124LQA-S413	24	16	4	-	2	•	-	-	-	•	-	2	5	2	-	-	16	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4124PVA-S422	24	16	4	-	2	-	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4124LQA-S423	24	16	4	-	2	-	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-

Automotive PSoC™ 4 Series

Product type/ part number	Features																			Packages										Operating Temp.										
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4100S-Series																																								
CY8C4124PVA-S432	24	16	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4124LQA-S433	24	16	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4125PVA-S412	24	32	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4125LQA-S413	24	32	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4125PVA-S422	24	32	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4125LQA-S423	24	32	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4125PVA-S432	24	32	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4125LQA-S433	24	32	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4146PVA-S422	48	64	8	-	2	-	-	-	•	1000 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4146LQA-S423	48	64	8	-	2	-	-	-	•	1000 Ksps	2	5	3	-	-	16	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4146PVA-S432	48	64	8	-	2	•	-	-	•	1000 Ksps	2	5	3	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4146LQA-S433	48	64	8	-	2	•	-	-	•	1000 Ksps	2	5	3	-	-	16	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4124PVS-S412	24	16	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4124LQS-S413	24	16	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4124PVS-S422	24	16	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4124LQS-S423	24	16	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4124PVS-S432	24	16	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4124LQS-S433	24	16	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4125PVS-S412	24	32	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-	-	

Automotive PSoC™ 4 Series

Product type/ part number	Features																				Packages										Operating Temp.									
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4100S-Series																																								
CY8C4125LQS-S413	24	32	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4125PVS-S422	24	32	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4125LQS-S423	24	32	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4125PVS-S432	24	32	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4125LQS-S433	24	32	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4146PVS-S422	48	64	8	-	2	-	-	-	•	1000 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4146LQS-S423	48	64	8	-	2	-	-	-	•	1000 Ksps	2	5	3	-	-	16	-	-	-	-	34	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4146PVS-S432	48	64	8	-	2	•	-	-	•	1000 Ksps	2	5	3	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4146LQS-S433	48	64	8	-	2	•	-	-	•	1000 Ksps	2	5	3	-	-	16	-	-	-	-	34	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4124PVE-S412	24	16	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4124LQE-S413	24	16	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4124PVE-S422	24	16	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4124LQE-S423	24	16	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4124PVE-S432	24	16	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4124LQE-S433	24	16	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4125PVE-S412	24	32	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4125LQE-S413	24	32	4	-	2	•	-	-	•	-	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4125PVE-S422	24	32	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4125LQE-S423	24	32	4	-	2	-	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•	

Automotive PSoC™ 4 Series

Product type/ part number	Features																			Packages										Operating Temp.													
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C					
PSoc™ 4100S-Series																																											
CY8C4125PVE-S432	24	32	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•			
CY8C4125LQE-S433	24	32	4	-	2	•	-	-	•	806 Ksps	2	5	2	-	-	16	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•			
CY8C4146PVE-S422	48	64	8	-	2	-	-	-	•	1000 Ksps	2	5	2	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•		
CY8C4146LQE-S423	48	64	8	-	2	-	-	-	•	1000 Ksps	2	5	3	-	-	16	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•		
CY8C4146PVE-S432	48	64	8	-	2	•	-	-	•	1000 Ksps	2	5	3	-	-	16	-	-	-	-	24	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•		
CY8C4146LQE-S433	48	64	8	-	2	•	-	-	•	1000 Ksps	2	5	3	-	-	16	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•		
PSoc™ 4100S Plus-Series																																											
CY8C4126AZA-S455	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4146AZA-S245	48	64	8	-	-	-	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4146AZA-S255	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4146AZA-S265	48	64	8	-	-	•	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4146AZA-S275	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4146AZA-S455	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4127AZA-S445	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4127AZA-S455	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147AZA-S245	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147AZA-S255	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147AZA-S265	48	128	16	-	-	•	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147AZA-S275	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•

Automotive PSoC™ 4 Series

Product type/ partnumber	Features																			Packages										Operating Temp.																													
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C																					
PSoC™ 4100S Plus-Series																																																											
CY8C4147AZA-S285	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-																
CY8C4147AZA-S295	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-													
CY8C4147AZA-S445	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-									
CY8C4147AZA-S455	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-							
CY8C4147AZA-S465	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-							
CY8C4147AZA-S475	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-						
CY8C4126AZS-S455	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-				
CY8C4146AZS-S245	48	64	8	-	-	-	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-			
CY8C4146AZS-S255	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-		
CY8C4146AZS-S265	48	64	8	-	-	•	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-		
CY8C4146AZS-S275	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-		
CY8C4146AZS-S455	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-	
CY8C4127AZS-S445	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-	
CY8C4127AZS-S455	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-	
CY8C4147AZS-S245	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-
CY8C4147AZS-S255	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-
CY8C4147AZS-S265	48	128	16	-	-	•	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-	
CY8C4147AZS-S275	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-	
CY8C4147AZS-S285	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	•	-	-

Automotive PSoC™ 4 Series

Product type/ part number	Features																				Packages										Operating Temp.																
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C									
PSoC™ 4100S Plus-Series																																															
CY8C4147AZS-S295	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	-	-	•	-			
CY8C4147AZS-S445	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-		
CY8C4147AZS-S455	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4147AZS-S465	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147AZS-S475	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4126LQA-S453	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4146LQA-S243	48	64	8	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4146LQA-S253	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4146LQA-S263	48	64	8	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4146LQA-S273	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4146LQA-S453	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4127LQA-S443	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4127LQA-S453	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LQA-S243	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LQA-S253	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LQA-S263	48	128	16	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LQA-S273	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LQA-S283	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LQA-S293	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-

Automotive PSoC™ 4 Series

Product type/ part number	Features																				Packages										Operating Temp.								
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C	
PSoC™ 4100S Plus-Series																																							
CY8C4147LQA-S443	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LQA-S453	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LQA-S463	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LQA-S473	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4126LQS-S453	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4146LQS-S243	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4146LQS-S253	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4146LQS-S263	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4146LQS-S273	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4146LQS-S453	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4127LQS-S443	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4127LQS-S453	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LQS-S243	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LQS-S253	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LQS-S263	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LQS-S273	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LQS-S283	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LQS-S293	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LQS-S443	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-

Automotive PSoC™ 4 Series

Product type/ part number	Features																				Packages										Operating Temp.									
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4100S Plus-Series																																								
CY8C4147LQS-S453	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4147LQS-S463	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LQS-S473	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4126LQE-S453	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4146LQE-S243	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4146LQE-S253	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4146LQE-S263	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4146LQE-S273	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4146LQE-S453	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4127LQE-S443	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4127LQE-S453	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LQE-S243	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LQE-S253	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LQE-S263	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LQE-S273	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LQE-S283	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LQE-S293	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LQE-S443	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	34	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147AZE-S465	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	

Automotive PSoC™ 4 Series

Product type/ part number	Features																			Packages										Operating Temp.									
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C	
PSoC™ 4100S Plus-Series																																							
CY8C4147AZE-S475	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4126LQA-S455	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4146LQA-S245	48	64	8	-	-	-	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4146LQA-S255	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4146LQA-S265	48	64	8	-	-	•	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4146LQA-S275	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4146LQA-S455	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4127LQA-S445	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4127LQA-S455	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LQA-S245	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LQA-S255	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LQA-S265	48	128	16	-	-	•	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LQA-S275	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LQA-S285	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LQA-S295	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LQA-S445	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LQA-S455	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LQA-S465	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LQA-S475	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•

Automotive PSoC™ 4 Series

Product type/ part number	Features																			Packages											Operating Temp.											
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C				
PSoC™ 4100S Plus-Series																																										
CY8C4126LQS-S455	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4146LQS-S245	48	64	8	-	-	-	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4146LQS-S255	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4146LQS-S265	48	64	8	-	-	•	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4146LQS-S275	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4146LQS-S455	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4127LQS-S445	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4127LQS-S455	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4147LQS-S245	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LQS-S255	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LQS-S265	48	128	16	-	-	•	-	-	-	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LQS-S275	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LQS-S285	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LQS-S295	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LQS-S445	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LQS-S455	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LQS-S465	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LQS-S475	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	5	•	•	24	1	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4126LDA-S453	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	

Automotive PSoC™ 4 Series

Product type/ part number	Features																				Packages										Operating Temp.									
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4100S Plus-Series																																								
CY8C4146LDA-S243	48	64	8	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-	-	
CY8C4146LDA-S253	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4146LDA-S263	48	64	8	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4146LDA-S273	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4146LDA-S453	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4127LDA-S443	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4127LDA-S453	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S243	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S253	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S263	48	128	16	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S273	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S283	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S293	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S443	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S453	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S463	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S473	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4126LDS-S453	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4146LDS-S243	48	64	8	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-

Automotive PSoC™ 4 Series

Product type/ part number	Features																				Packages										Operating Temp.								
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C	
PSoC™ 4100S Plus-Series																																							
CY8C4146LDA-S243	48	64	8	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4146LDA-S253	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4146LDA-S263	48	64	8	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4146LDA-S273	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4146LDA-S453	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4127LDA-S443	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4127LDA-S453	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S243	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S253	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S263	48	128	16	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S273	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S283	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S293	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S443	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S453	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S463	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4147LDA-S473	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4126LDS-S453	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4146LDS-S243	48	64	8	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-

Automotive PSoC™ 4 Series

Product type/ part number	Features																				Packages										Operating Temp.										
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C			
PSoC™ 4100S Plus-Series																																									
CY8C4146LDS-S253	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-		
CY8C4146LDS-S263	48	64	8	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4146LDS-S273	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4146LDS-S453	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4127LDS-S443	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4127LDS-S453	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4147LDS-S243	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4147LDS-S253	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4147LDS-S263	48	128	16	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4147LDS-S273	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4147LDS-S283	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4147LDS-S293	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4147LDS-S443	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4147LDS-S453	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4147LDS-S463	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4147LDS-S473	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4126LDE-S453	24	64	8	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	
CY8C4146LDE-S243	48	64	8	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4146LDE-S253	48	64	8	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-

Automotive PSoC™ 4 Series

Product type/ partnumber	Features																				Packages										Operating Temp.									
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4100S Plus-Series																																								
CY8C4146LDE-S263	48	64	8	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4146LDE-S273	48	64	8	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4146LDE-S453	48	64	8	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4127LDE-S443	24	128	16	-	2	-	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4127LDE-S453	24	128	16	-	2	•	-	-	•	806 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LDE-S243	48	128	16	-	-	-	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LDE-S253	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LDE-S263	48	128	16	-	-	•	-	-	-	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LDE-S273	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LDE-S283	48	128	16	-	-	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LDE-S293	48	128	16	-	-	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LDE-S443	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LDE-S453	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LDE-S463	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LDE-S473	48	128	16	-	2	•	-	-	•	1000 Ksps	2	8	4	•	•	24	1	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•
PSoC™ 4100S Max-Series																																								
CY8C4147AZE-S598	48	128	16		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4147AZE-S578	48	128	16		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4148AZE-S598	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	

Automotive PSoC™ 4 Series

Product type/ part number	Features																				Packages										Operating Temp.													
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C						
PSoC™ 4100S Max-Series																																												
CY8C4148LDE-S573	48	256	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	●				
CY8C4148LDE-S593	48	256	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	1	●	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	●			
CY8C4147AZA-S548	48	128	16		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CY8C4147AZE-S548	48	128	16		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	
CY8C4147AZS-S548	48	128	16		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	
CY8C4147AZA-S555	48	128	16		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	
CY8C4147AZS-S555	48	128	16		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	
CY8C4147AZE-S555	48	128	16		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	
CY8C4147AZA-S558	48	128	16		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●
CY8C4147AZS-S558	48	128	16		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●
CY8C4147AZE-S558	48	128	16		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●
CY8C4147AZA-S565	48	128	16		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●
CY8C4147AZS-S565	48	128	16		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●
CY8C4147AZE-S565	48	128	16		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●
CY8C4147AZA-S568	48	128	16		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●
CY8C4147AZS-S568	48	128	16		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●
CY8C4147AZE-S568	48	128	16		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●
CY8C4147AZA-S575	48	128	16		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●
CY8C4147AZS-S575	48	128	16		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●

Automotive PSoC™ 4 Series

Product type/ partnumber	Features																			Packages										Operating Temp.														
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart IOs	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C						
PSoC™ 4100S Max-Series																																												
CY8C4147AZE-S575	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•					
CY8C4147AZA-S578	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	•	-	-				
CY8C4147AZS-S578	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	-	-				
CY8C4147AZA-S585	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-				
CY8C4147AZS-S585	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-				
CY8C4147AZE-S585	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-			
CY8C4147AZA-S588	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	•	-	-			
CY8C4147AZS-S588	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	-			
CY8C4147AZE-S588	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	-		
CY8C4147AZA-S595	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	-	-		
CY8C4147AZS-S595	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	-		
CY8C4147AZE-S595	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	-		
CY8C4147AZA-S598	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	•	-	-		
CY8C4147AZS-S598	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	-		
CY8C4148AZA-S545	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	-		
CY8C4148AZS-S545	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	-	
CY8C4148AZE-S545	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	-
CY8C4148AZA-S548	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	•	-	-		
CY8C4148AZS-S548	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-	-	•	-		

Automotive PSoC™ 4 Series

Product type/ partnumber	Features																			Packages										Operating Temp.									
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C	
PSoC™ 4100S Max-Series																																							
CY8C4148AZE-S548	48	256	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4148AZA-S555	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4148AZS-S555	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4148AZE-S555	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4148AZA-S558	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4148AZS-S558	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4148AZE-S558	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4148AZA-S565	48	256	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•		
CY8C4148AZS-S565	48	256	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•		
CY8C4148AZE-S565	48	256	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•		
CY8C4148AZA-S568	48	256	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•		
CY8C4148AZS-S568	48	256	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•		
CY8C4148AZE-S568	48	256	32		2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•		
CY8C4148AZA-S575	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•		
CY8C4148AZS-S575	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•		
CY8C4148AZE-S575	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•		
CY8C4148AZA-S578	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•		
CY8C4148AZS-S578	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•		
CY8C4148AZE-S578	48	256	32		2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•		

Automotive PSoC™ 4 Series

Product type/ partnumber	Features																			Packages										Operating Temp.																			
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C											
PSoC™ 4100S Max-Series																																																	
CY8C4148AZA-S585	48	256	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	●	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-						
CY8C4148AZS-S585	48	256	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	●	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-	-				
CY8C4148AZE-S585	48	256	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	●	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-		
CY8C4148AZA-S588	48	256	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	●	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
CY8C4148AZS-S588	48	256	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	●	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CY8C4148AZE-S588	48	256	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	●	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CY8C4148AZA-S595	48	256	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	1	●	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CY8C4148AZS-S595	48	256	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	1	●	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
CY8C4148AZE-S595	48	256	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	1	●	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CY8C4148AZA-S598	48	256	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	1	●	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CY8C4148AZS-S598	48	256	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	1	●	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CY8C4149AZA-S545	48	384	32		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CY8C4149AZS-S545	48	384	32		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CY8C4149AZE-S545	48	384	32		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CY8C4149AZA-S548	48	384	32		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CY8C4149AZS-S548	48	384	32		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CY8C4149AZE-S548	48	384	32		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CY8C4149AZA-S555	48	384	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CY8C4149AZS-S555	48	384	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Automotive PSoC™ 4 Series

Product type/ part number	Features																			Packages										Operating Temp.																			
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C											
PSoC™ 4100S Max-Series																																																	
CY8C4149AZE-S555	48	384	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●										
CY8C4149AZA-S558	48	384	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	●	-	-								
CY8C4149AZS-S558	48	384	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-							
CY8C4149AZE-S558	48	384	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●							
CY8C4149AZA-S565	48	384	32		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	-						
CY8C4149AZS-S565	48	384	32		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●						
CY8C4149AZE-S565	48	384	32		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●					
CY8C4149AZA-S568	48	384	32		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●					
CY8C4149AZS-S568	48	384	32		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●				
CY8C4149AZE-S568	48	384	32		2	-	-	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●			
CY8C4149AZA-S575	48	384	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●			
CY8C4149AZS-S575	48	384	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●			
CY8C4149AZE-S575	48	384	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●		
CY8C4149AZA-S578	48	384	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●		
CY8C4149AZS-S578	48	384	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	
CY8C4149AZE-S578	48	384	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	1	-	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	
CY8C4149AZA-S585	48	384	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	●	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	
CY8C4149AZS-S585	48	384	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	●	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	
CY8C4149AZE-S585	48	384	32		2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	●	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●

Automotive PSoC™ 4 Series

Product type/ partnumber	Features																			Packages										Operating Temp.																
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C								
PSoC™ 4100S Max-Series																																														
CY8C4149AZE-S585	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•						
CY8C4149AZA-S588	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•					
CY8C4149AZS-S588	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•				
CY8C4149AZE-S588	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•			
CY8C4149AZA-S595	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•				
CY8C4149AZS-S595	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•			
CY8C4149AZE-S595	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•			
CY8C4149AZA-S598	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•			
CY8C4149AZS-S598	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•		
CY8C4149AZE-S598	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	-	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4147LDA-S543	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4147LDE-S543	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4147LDS-S543	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4147LDA-S553	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4147LDS-S553	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4147LDE-S553	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	38	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4147LDA-S563	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	38	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LDS-S563	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	38	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	
CY8C4147LDE-S563	48	128	16	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	38	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•

Automotive PSoC™ 4 Series

Product type/ part number	Features																			Packages										Operating Temp.										
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C		
PSoC™ 4100S Max-Series																																								
CY8C4147LDA-S573	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	•	-	-	
CY8C4147LDS-S573	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LDE-S573	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•
CY8C4147LDA-S583	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LDS-S583	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LDE-S583	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LDA-S593	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LDS-S593	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4147LDE-S593	48	128	16	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4148LDA-S543	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4148LDS-S543	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4148LDE-S543	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4148LDA-S553	48	256	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4148LDS-S553	48	256	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4148LDE-S553	48	256	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4148LDA-S563	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4148LDS-S563	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4148LDE-S563	48	256	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-
CY8C4148LDA-S573	48	256	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-

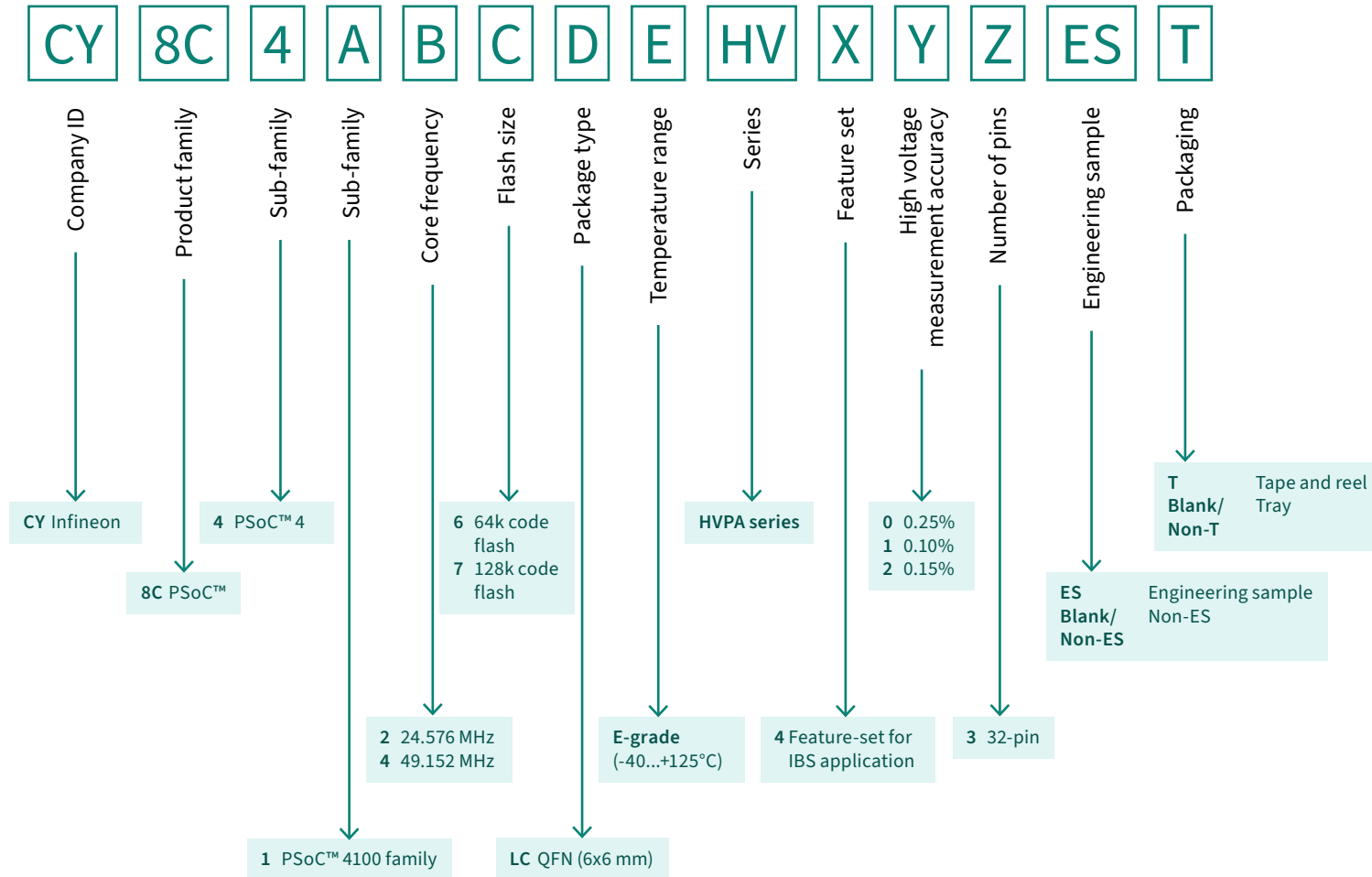
Automotive PSoC™ 4 Series

Product type/ part number	Features																			Packages												Operating Temp.										
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C				
PSoC™ 4100S Max-Series																																										
CY8C4148LDS-S573	48	256	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-		
CY8C4148LDA-S583	48	256	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-		
CY8C4148LDS-S583	48	256	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4148LDE-S583	48	256	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	•	-	-
CY8C4148LDA-S593	48	256	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-		
CY8C4148LDS-S593	48	256	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	•	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-		
CY8C4149LDA-S543	48	384	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-		
CY8C4149LDS-S543	48	384	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-		
CY8C4149LDE-S543	48	384	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	•	-	-	
CY8C4149LDA-S553	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-		
CY8C4149LDS-S553	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-		
CY8C4149LDE-S553	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-		
CY8C4149LDA-S563	48	384	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-		
CY8C4149LDS-S563	48	384	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-		
CY8C4149LDE-S563	48	384	32	-	2	-	-	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-		
CY8C4149LDA-S573	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-		
CY8C4149LDS-S573	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-		
CY8C4149LDE-S573	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	1	-	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-		
CY8C4149LDA-S583	48	384	32	-	2	2	•	-	•	1000 Ksps	2	8	5	•	•	24	-	-	•	-	38	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	•	-	-		

Automotive PSoC™ 4 Series

Product type/ part number	Features																				Packages												Operating Temp.								
	Max CPU Speed (MHz)	Flash (KB)	SRAM (KB)	UDB	Op-amp (CTBm)	CAPSENSE	I ² S	USB Full Speed	Direct LCD Drive	12-bit SAR ADC	LP Comparators	TCPWM Blocks	SCB Blocks	WCO	ECO	Smart I/Os	CAN	CAN-FD	CRYPTO	USB Full Speed	GPIO	16-SOIC	20-SSOP	24-QFN	28-SSOP	32-QFN	40-QFN	48-QFN	48-TQFP	56-QFN	64-WQFN	64-TQFP	80-TQFP	100-TQFP	124-VFBGA	-40 to +85°C	-40 to +105°C	-40 to +125°C			
PSoc™ 4100S Max-Series																																									
CY8C4149LDS-S583	48	384	32	-	2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	●	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	
CY8C4149LDE-S583	48	384	32	-	2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	-	●	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	●	
CY8C4149LDA-S593	48	384	32	-	2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	1	●	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	●	-	
CY8C4149LDS-S593	48	384	32	-	2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	1	●	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4149LDE-S593	48	384	32	-	2	2	●	-	●	1000 Ksps	2	8	5	●	●	24	-	1	●	-	38	-	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	●	
PSoc™ 4700S Plus-Series																																									
CY8C4746LQS-S263	48	64	8	-	-	●	-	-	-	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	●	-
CY8C4747LQS-S453	48	128	16	-	2	●	-	-	●	1000 Ksps	2	8	4	●	●	24	-	-	-	-	34	-	-	-	-	-	●	-	-	-	-	-	-	-	-	-	-	-	-	●	-
PSoc™ 4200L-Series																																									
CY8C4248BZA-L489	48	256	32	8	4	●	-	●	●	1000 Ksps	2	8	4	-	-	-	2	-	-	●	98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	●	-	-
CY8C4248BZS-L489	48	256	32	8	4	●	-	●	●	1000 Ksps	2	8	4	-	-	-	2	-	-	●	98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	●	-	●	-

PSoC™ 4 HVPA (High Voltage Precision Analog)



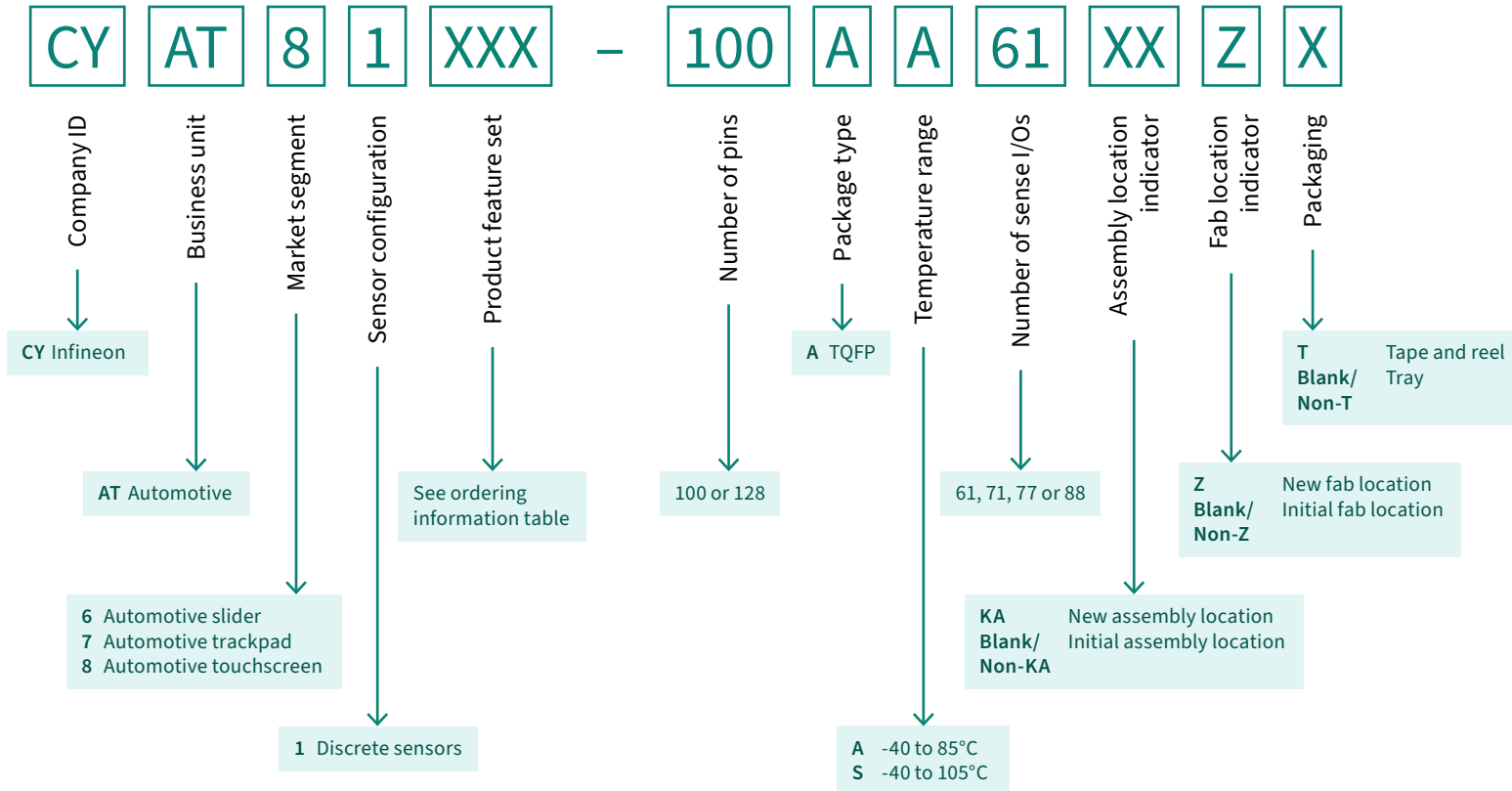
PSoC™ 4 HVPA (High Voltage Precision Analog)

MPN	Features																Packages		Operating Temp	Target Applications		
	Max CPU Speed (MHz)	Code Flash (KB) with ECC	Data Flash EEPROM with ECC	SRAM (KB) with ECC	16-20 bit Precision ΔΣ ADC	Digital Channels	Overcurrent Detection (OCD) comparators	Current measurement accuracy	“High Voltage measurement los (with 28V HV divider)”	“High Voltage (w/HV dividers) measurement accuracy”	TCPWM Blocks	SCB Blocks	LIN Controller	“High Voltage Subsystem (LDO, LIN PHY)”	CRYPTO	CAN / CAN-FD	iso-UART	GPIO	32-QFN (5*5mm)		48-QFN (7*7mm)	-40 to +125C
HVPA-144k 412X LIN																						
CY8C4126LCE-HV403	24,576	64	8	4	2	4	-	0.30% ²	2	0,25%	4	1	●	●	-	-	-	9	●	-	●	Intelligent Battery Sensors (IBS) for 12V Pb
CY8C4126LCE-HV413	24,576	64	8	4	2	4	-	0.30% ²	2	0.1% ¹	4	1	●	●	-	-	-	9	●	-	●	Intelligent Battery Sensors (IBS) for 12V Pb
CY8C4126LCE-HV423	24,576	64	8	4	2	4	-	0.30% ²	2	0.15% ¹	4	1	●	●	-	-	-	9	●	-	●	Intelligent Battery Sensors (IBS) for 12V Pb
CY8C4127LCE-HV403	24,576	128	8	8	2	4	-	0.30% ²	2	0,25%	4	1	●	●	-	-	-	9	●	-	●	Intelligent Battery Sensors (IBS) for 12V Pb
CY8C4127LCE-HV413	24,576	128	8	8	2	4	-	0.30% ²	2	0.1% ¹	4	1	●	●	-	-	-	9	●	-	●	Intelligent Battery Sensors (IBS) for 12V Pb
CY8C4127LCE-HV423	24,576	128	8	8	2	4	-	0.30% ²	2	0.15% ¹	4	1	●	●	-	-	-	9	●	-	●	Intelligent Battery Sensors (IBS) for 12V Pb
HVPA-144k 414X LIN																						
CY8C4147LCE-HV403	49,152	128	8	8	2	4	-	0.30% ²	2	0,25%	4	1	●	●	-	-	-	9	●	-	●	Intelligent Battery Sensors (IBS) for 12V Pb
CY8C4147LCE-HV413	49,152	128	8	8	2	4	-	0.30% ²	2	0.1% ¹	4	1	●	●	-	-	-	9	●	-	●	Intelligent Battery Sensors (IBS) for 12V Pb
CY8C4147LCE-HV423	49,152	128	8	8	2	4	-	0.30% ²	2	0.15% ¹	4	1	●	●	-	-	-	9	●	-	●	Intelligent Battery Sensors (IBS) for 12V Pb

1 -40°C <TA< 85°C, 11V<VBAT<14V

2 -40°C <TA< 105°C, VBAT<19V

Gen6XL – First high performance single chip Touch Controller



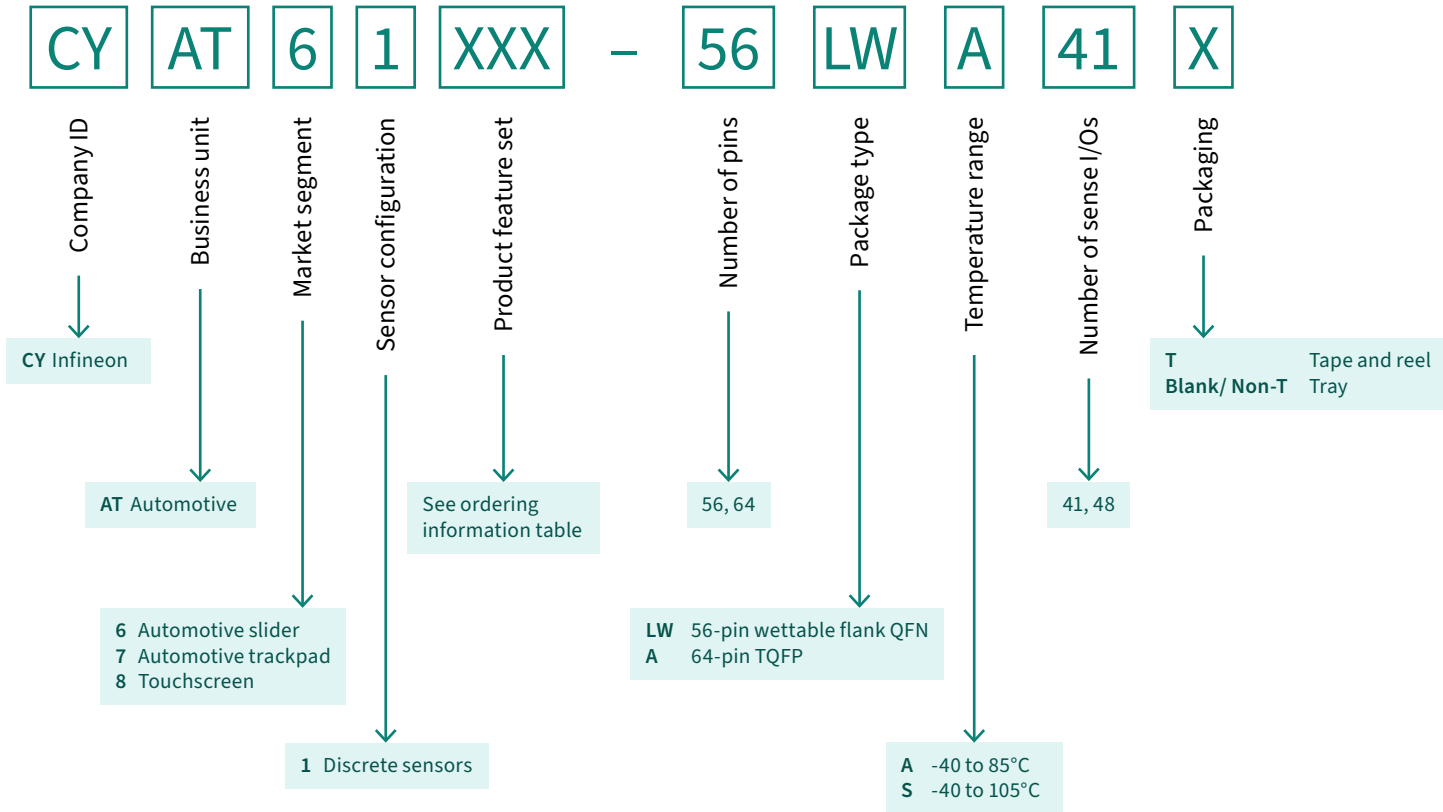
Gen6XL – First high performance single chip Touch Controller

Product type/ partnumber	Number of Sense pins	Number of fingers	Low power wake-up button	CapSense Buttons	Water Rejection	Thin Glove support	Display Armor	Gestures	Thick Overlay/Thick Glove support	5-V TX	Package
TSG6_XL											
CYAT81682-100AA61Z	61	10	-	•	•	•	•	-	-	-	100 TQFP
CYAT81682-100AS61Z	61	10	-	•	•	•	•	-	-	-	100 TQFP
CYAT81682-100AA71Z	71	10	-	•	•	•	•	-	-	-	100 TQFP
CYAT81682-100AS71Z	71	10	-	•	•	•	•	-	-	-	100 TQFP
CYAT81682-100AA77Z	77	10	-	•	•	•	•	-	-	-	100 TQFP
CYAT81682-100AS77Z	77	10	-	•	•	•	•	-	-	-	100 TQFP
CYAT81682-128AA88Z	88	10	-	•	•	•	•	-	-	-	128 TQFP
CYAT81682-128AS88Z	88	10	-	•	•	•	•	-	-	-	128 TQFP
CYAT81685-100AA61Z	61	10	-	•	•	•	•	•	-	-	100 TQFP
CYAT81685-100AS61Z	61	10	-	•	•	•	•	•	-	-	100 TQFP
CYAT81685-100AA71Z	71	10	-	•	•	•	•	•	-	-	100 TQFP
CYAT81685-100AS71Z	71	10	-	•	•	•	•	•	-	-	100 TQFP
CYAT81685-100AA77Z	77	10	-	•	•	•	•	•	-	-	100 TQFP
CYAT81685-100AS77Z	77	10	-	•	•	•	•	•	-	-	100 TQFP
CYAT81685-128AA88Z	88	10	-	•	•	•	•	•	-	-	128 TQFP
CYAT81685-128AS88Z	88	10	-	•	•	•	•	•	-	-	128 TQFP
CYAT81688-100AA61Z	61	10	-	•	•	•	•	•	•	•	100 TQFP
CYAT81688-100AS61Z	61	10	-	•	•	•	•	•	•	•	100 TQFP
CYAT81688-100AA71Z	71	10	-	•	•	•	•	•	•	•	100 TQFP

Gen6XL – First high performance single chip Touch Controller

Product type/ partnumber	Number of Sense pins	Number of fingers	Low power wake-up button	CapSense Buttons	Water Rejection	Thin Glove support	Display Armor	Gestures	Thick Overlay/Thick Glove support	5-V TX	Package
TSG6_XL											
CYAT81688-100AS71Z	71	10	-	•	•	•	•	•	•	•	100 TQFP
CYAT81688-100AA77Z	77	10	-	•	•	•	•	•	•	•	100 TQFP
CYAT81688-100AS77Z	77	10	-	•	•	•	•	•	•	•	100 TQFP
CYAT81688-128AA88Z	88	10	-	•	•	•	•	•	•	•	128 TQFP
CYAT81688-128AS88Z	88	10	-	•	•	•	•	•	•	•	128 TQFP
CYAT81689-100AA61Z	61	10	•	•	•	•	•	•	•	•	100 TQFP
CYAT81689-100AS61Z	61	10	•	•	•	•	•	•	•	•	100 TQFP
CYAT81689-100AA77Z	77	10	•	•	•	•	•	•	•	•	100 TQFP
CYAT81689-100AS77Z	77	10	•	•	•	•	•	•	•	•	100 TQFP
CYAT81689-128AA88Z	88	10	•	•	•	•	•	•	•	•	128 TQFP
CYAT81689-128AS88Z	88	10	•	•	•	•	•	•	•	•	128 TQFP
CYAT81689-100AS71Z	71	10	•	•	•	•	•	•	•	•	100 TQFP

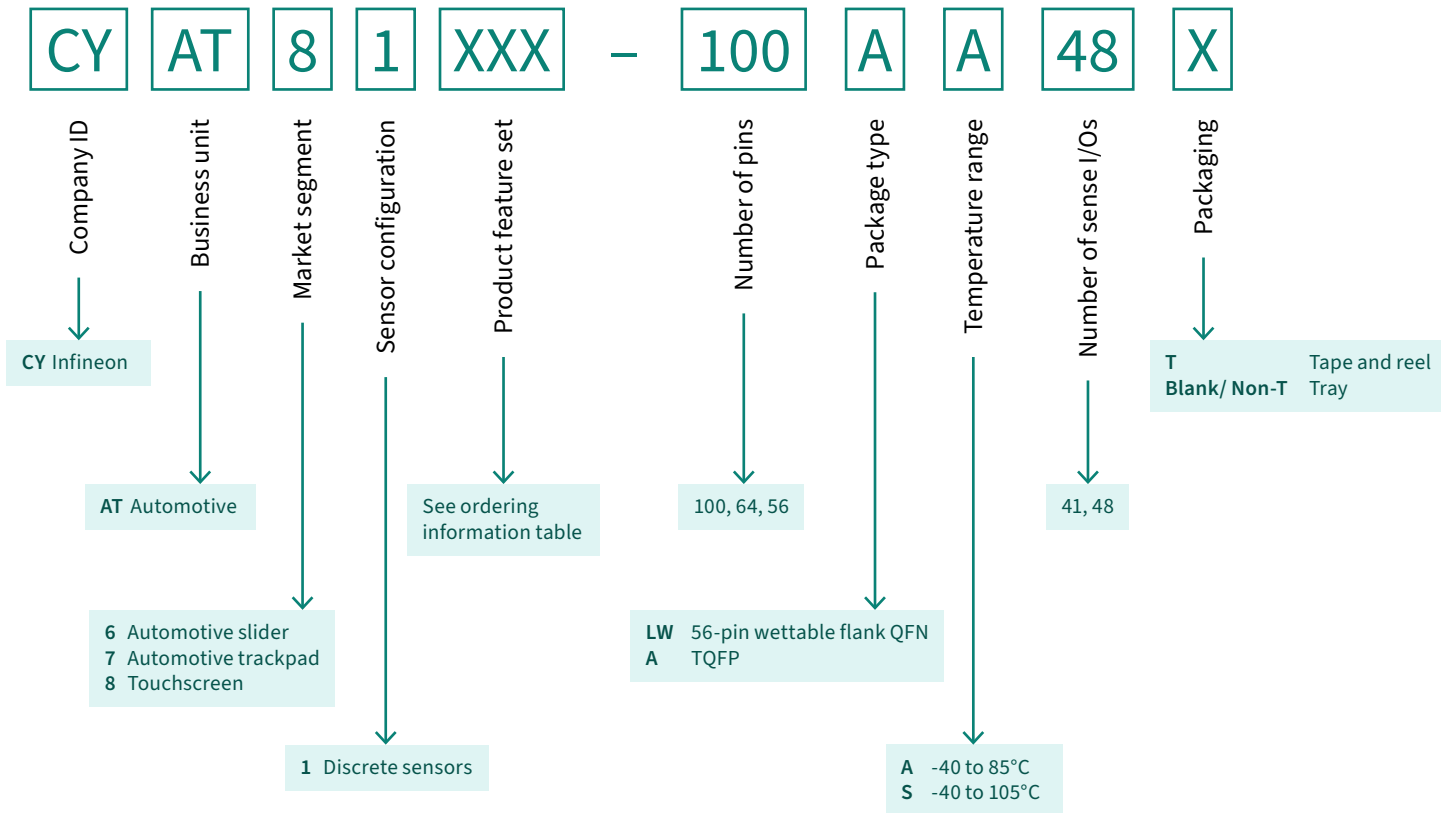
Gen6L – Slider solution



Gen6L – Slider solution

Product type/ partnumber	No of Sense pins	No of Fingers	Slider	Wake up button support	Capsense Buttons	Water Rejection	Thin Glove Support	Thick Overlay/Thick Glove support	Package
TSG6_L									
CYAT61652-56LWA41	41	10	•		•	•	•		56 QFN
CYAT61652-56LWS41	41	10	•		•	•	•		56 QFN
CYAT61658-56LWA41	41	10	•		•	•	•	•	56 QFN
CYAT61658-56LWS41	41	10	•		•	•	•	•	56 QFN
CYAT61659-56LWA41	41	10	•	•	•	•	•	•	56 QFN
CYAT61659-56LWS41	41	10	•	•	•	•	•	•	56 QFN
CYAT61652-64AA48	48	10	•		•	•	•		64 TQFP
CYAT61652-64AS48	48	10	•		•	•	•		64 TQFP
CYAT61658-64AA48	48	10	•		•	•	•	•	64 TQFP
CYAT61658-64AS48	48	10	•		•	•	•	•	64 TQFP
CYAT61659-64AA48	48	10	•	•	•	•	•	•	64 TQFP
CYAT61659-64AS48	48	10	•	•	•	•	•	•	64 TQFP

Gen6L – Low cost Touch controller solution



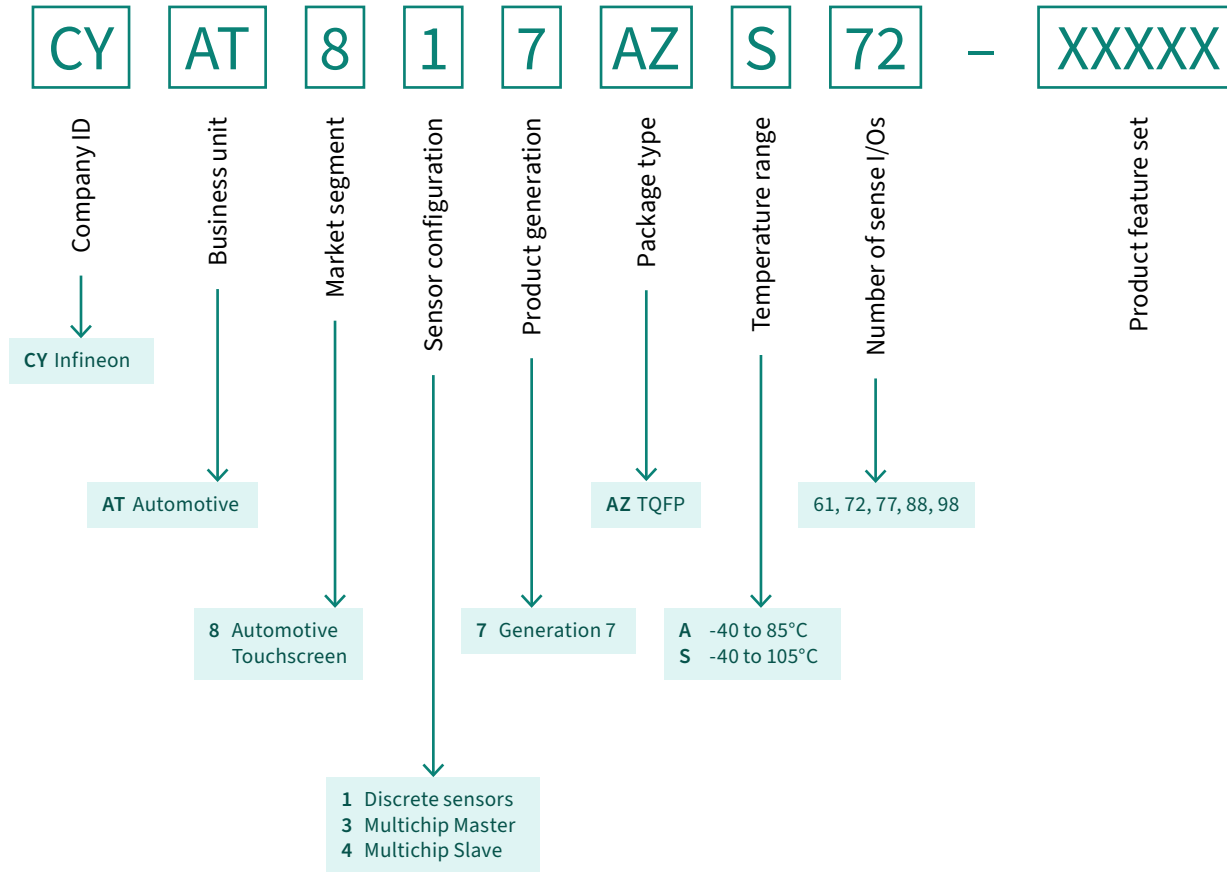
Gen6L – Low cost Touch controller solution

Product type/ partnumber	No of Sense pins	No of Fingers	Wake up button/Wake on screen	CapSense Buttons	Water Rejection	Thin Glove Support	Gestures	Thick Overlay/Thick Glove support	Package
TSG6_L									
CYAT81650-100AA48	48	10	-	-	-	-	-	-	100-pin TQFP
CYAT81650-100AS48	48	10	-	-	-	-	-	-	100-pin TQFP
CYAT81652-100AA48	48	10	-	•	•	•	-	-	100-pin TQFP
CYAT81652-100AS48	48	10	-	•	•	•	-	-	100-pin TQFP
CYAT81655-100AA48	48	10	-	•	•	•	•	-	100-pin TQFP
CYAT81655-100AS48	48	10	-	•	•	•	•	-	100-pin TQFP
CYAT81658-100AA48	48	10	-	•	•	•	•	•	100-pin TQFP
CYAT81658-100AS48	48	10	-	•	•	•	•	•	100-pin TQFP
CYAT81659-100AA48	48	10	•	•	•	•	•	•	100-pin TQFP
CYAT81659-100AS48	48	10	•	•	•	•	•	•	100-pin TQFP
CYAT81650-64AA48	48	10	-	-	-	-	-	-	64-pin TQFP
CYAT81650-64AS48	48	10	-	-	-	-	-	-	64-pin TQFP
CYAT81652-64AA48	48	10	-	•	•	•	-	-	64-pin TQFP
CYAT81652-64AS48	48	10	-	•	•	•	-	-	64-pin TQFP
CYAT81655-64AA48	48	10	-	•	•	•	•	-	64-pin TQFP
CYAT81655-64AS48	48	10	-	•	•	•	•	-	64-pin TQFP
CYAT81658-64AA48	48	10	-	•	•	•	•	•	64-pin TQFP
CYAT81658-64AS48	48	10	-	•	•	•	•	•	64-pin TQFP
CYAT81659-64AA48	48	10	•	•	•	•	•	•	64-pin TQFP

Gen6L – Low cost Touch controller solution

Product type/ partnumber	No of Sense pins	No of Fingers	Wake up button/Wake on screen	Capsense Buttons	Water Rejection	Thin Glove Support	Gestures	Thick Overlay/Thick Glove support	Package
TSG6_L									
CYAT81659-64AS48	48	10	•	•	•	•	•	•	64-pin TQFP
CYAT71658-56LWS41	41	10	•	•	•	•	•	•	56-pin QFN
CYAT71658-56LWA41	41	10	•	•	•	•	•	•	56-pin QFN

Gen7XL – Touch Controller with advanced features



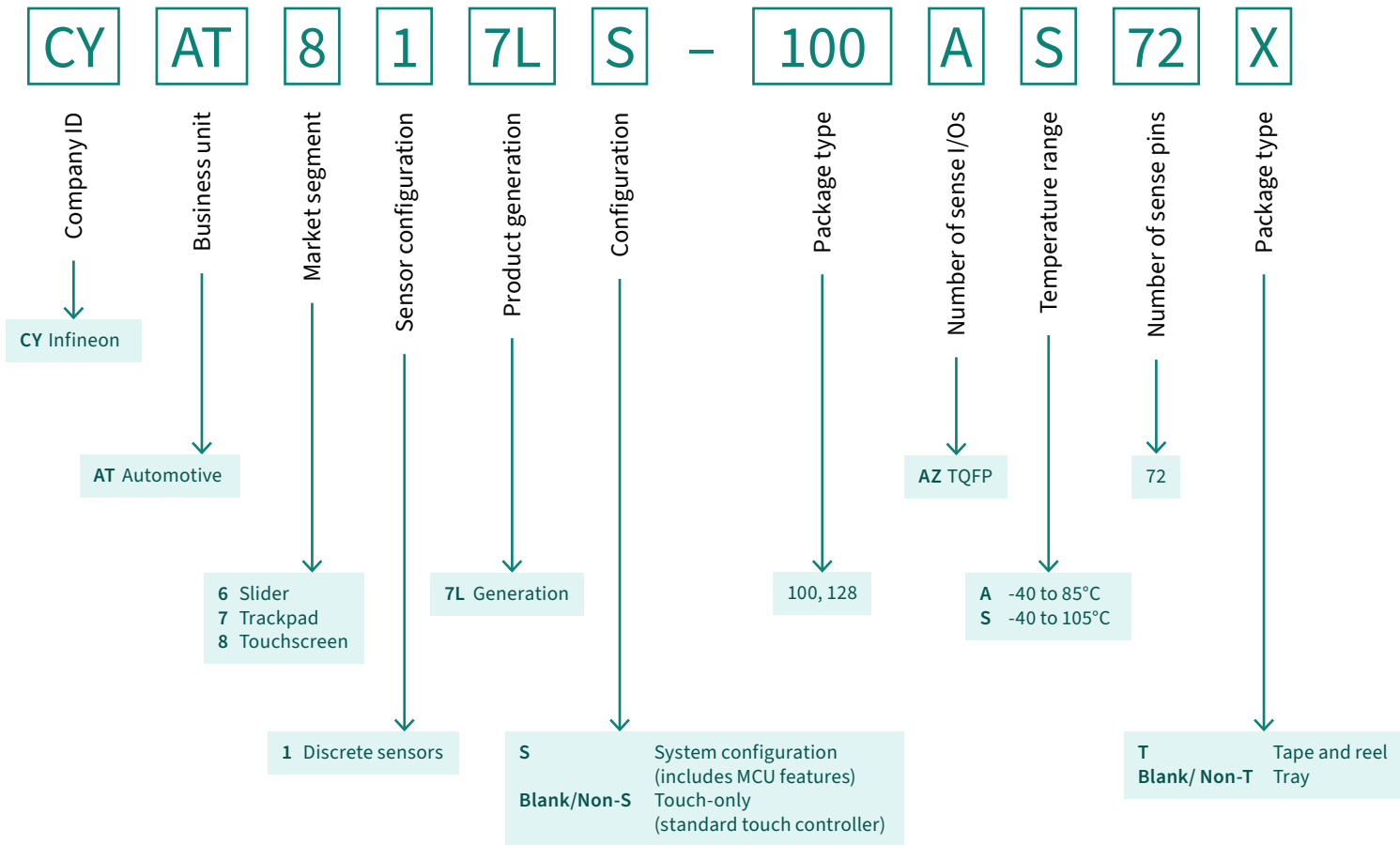
Gen7XL – Touch Controller with advanced features

Product type/ partnumber	Number of Pins	Number of Fingers	Hover	Force Touch	CapSense Buttons	Low-power Wake-up Button	Slider	Haptic	Acoustic	Secondary SCB (Touch Data)	CAN	Proximity	Crypto	Gesture Touchscreen	Gesture Slider	H ₂ O	Package
TSG7_XL																	
CYAT817AZS61-3A002	61	10	●	●	-	-	-	-	-	-	-	-	-	-	-	●	100-TQFP
CYAT817AZS61-3A202	61	10	●	●	-	-	-	●	-	-	-	-	-	-	-	●	100-TQFP
CYAT817AZS61-22002	61	10	-	-	-	-	-	-	-	-	-	-	-	-	-	●	100-TQFP
CYAT817AZA72-3BFBA	72	10	●	●	●	●	●	●	●	●	-	●	●	●	-	●	100-TQFP
CYAT817AZS72-32002	72	10	●	-	-	-	-	-	-	-	-	-	-	-	-	●	100-TQFP
CYAT817AZS72-33002	72	10	●	-	●	-	-	-	-	-	-	-	-	-	-	●	100-TQFP
CYAT817AZS72-3B002	72	10	●	●	●	-	-	-	-	-	-	-	-	-	-	●	100-TQFP
CYAT817AZS72-3B202	72	10	●	●	●	-	-	●	-	-	-	-	-	-	-	●	100-TQFP
CYAT817AZS72-3BFBA	72	10	●	●	●	●	●	●	●	●	-	●	●	●	-	●	100-TQFP
CYAT817AZS72-22002	72	10	-	-	-	-	-	-	-	-	-	-	-	-	-	●	100-TQFP
CYAT817AZA77-5BFBA	77	10	●	●	●	●	●	●	●	●	-	●	●	●	-	●	128-TQFP
CYAT817AZS77-5A002	77	10	●	●	-	-	-	-	-	-	-	-	-	-	-	●	128-TQFP
CYAT817AZS77-5A202	77	10	●	●	-	-	-	●	-	-	-	-	-	-	-	●	128-TQFP
CYAT817AZS77-5BFBA	77	10	●	●	●	●	●	●	●	●	-	●	●	●	-	●	128-TQFP
CYAT817AZS77-520DA	77	10	●	-	-	-	-	-	-	●	-	-	●	●	-	●	128-TQFP
CYAT817AZS77-53C02	77	10	●	-	●	●	●	-	-	-	-	-	-	-	-	●	128-TQFP
CYAT817AZS77-42002	77	10	-	-	-	-	-	-	-	-	-	-	-	-	-	●	128-TQFP
CYAT817AZA88-5BFBA	88	10	●	●	●	●	●	●	●	●	-	●	●	●	-	●	128-TQFP
CYAT817AZA88-53002	88	10	●	-	●	-	-	-	-	-	-	-	-	-	-	●	128-TQFP

Gen7XL – Touch Controller with advanced features

Product type/ partnumber	Number of Pins	Number of Fingers	Hover	Force Touch	CapSense Buttons	Low-power Wake-up Button	Slider	Haptic	Acoustic	Secondary SCB (Touch Data)	CAN	Proximity	Crypto	Gesture Touchscreen	Gesture Slider	H ₂ O	Package
TSG7_XL																	
CYAT817AZA88-5B002	88	10	●	●	●	-	-	-	-	-	-	-	-	-	-	●	128-TQFP
CYAT817AZA88-5B202	88	10	●	●	●	-	-	●	-	-	-	-	-	-	-	●	128-TQFP
CYAT817AZS88-5BFBA	88	10	●	●	●	●	●	●	●	●	-	●	●	●	-	●	128-TQFP
CYAT817AZS88-52002	88	10	●	-	-	-	-	-	-	-	-	-	-	-	-	●	128-TQFP
CYAT817AZA88-42002	88	10	-	-	-	-	-	-	-	-	-	-	-	-	-	●	128-TQFP
CYAT817AZS88-42002	88	10	-	-	-	-	-	-	-	-	-	-	-	-	-	●	128-TQFP
CYAT817AZA98-42002	98	10	-	-	-	-	-	-	-	-	-	-	-	-	-	●	128-TQFP
CYAT817AZA98-5BFBA	103	10	●	●	●	●	●	●	●	●	-	●	●	●	-	●	128-TQFP
CYAT817AZA98-53002	103	10	●	-	●	-	-	-	-	-	-	-	-	-	-	●	128-TQFP
CYAT817AZA98-5B002	103	10	●	●	●	-	-	-	-	-	-	-	-	-	-	●	128-TQFP
CYAT817AZA98-5B202	103	10	●	●	●	-	-	●	-	-	-	-	-	-	-	●	128-TQFP
CYAT817AZS98-42002	103	10	-	-	-	-	-	-	-	-	-	-	-	-	-	●	128-TQFP
CYAT817AZS98-523DA	103	10	●	-	-	-	-	●	●	●	●	-	●	●	-	●	128-TQFP
CYAT817AZS98-5BFBA	103	10	●	●	●	●	●	●	●	●	-	●	●	●	-	●	128-TQFP
CYAT817AZS98-5BFBE	103	10	●	●	●	●	●	●	●	●	●	●	●	●	●	●	128-TQFP

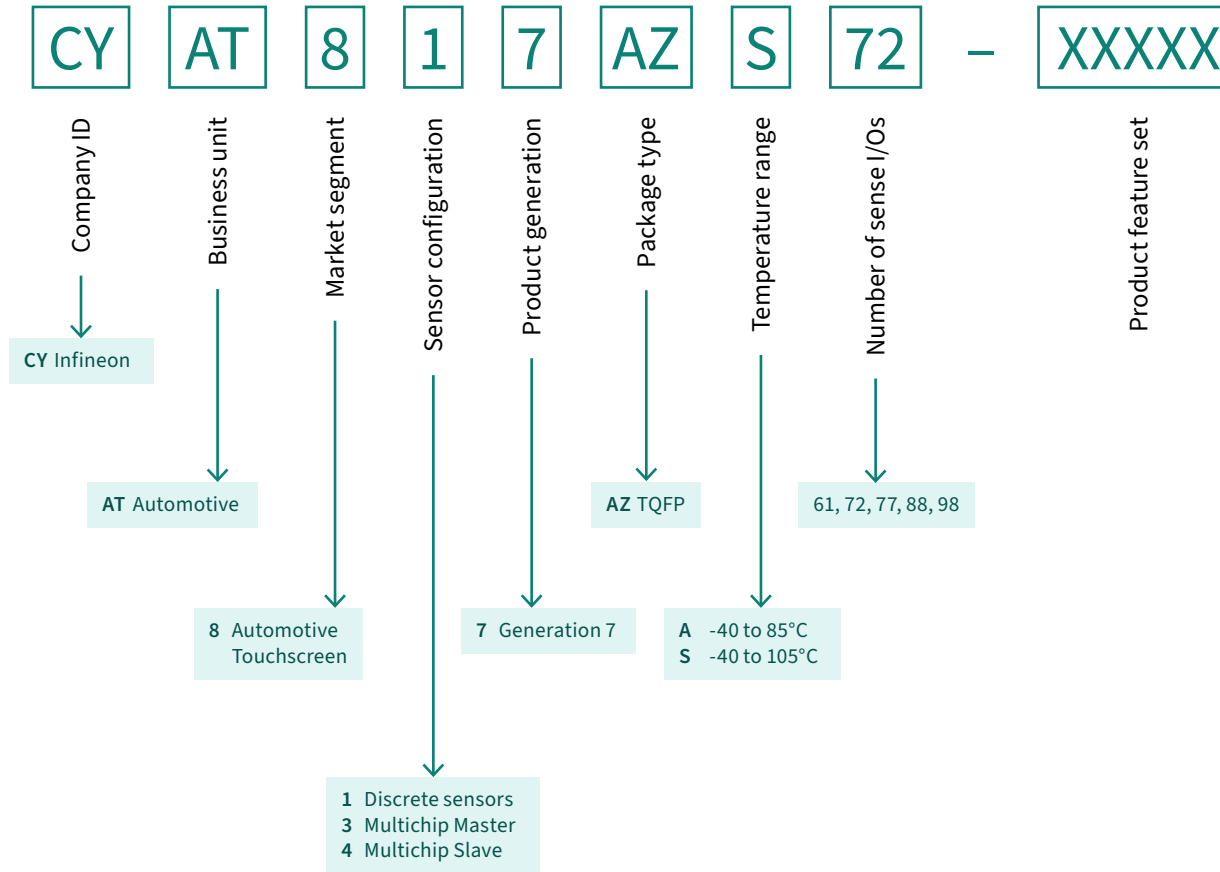
Gen7L – Touch + MCU features



Gen7L – Touch + MCU features

Product type/ partnumber	Number of sense pins	Multitouch	Touch only	Touch+ MCU functions	No. of GPIOs	Package
TSG7_L						
CYAT817L-100AA72	72	•	•	-	13	100-TQFP
CYAT817L-100AS72	72	•	•	-	13	100-TQFP
CYAT817LS-100AA72	72	•	-	•	13	100-TQFP
CYAT817LS-100AS72	72	•	-	•	13	100-TQFP
CYAT817L-128AA72	72	•	•	-	29	128-TQFP
CYAT817L-128AS72	72	•	•	-	29	128-TQFP
CYAT817LS-128AA72	72	•	-	•	29	128-TQFP
CYAT817LS-128AS72	72	•	-	•	29	128-TQFP

Gen7XL – Multi-chip



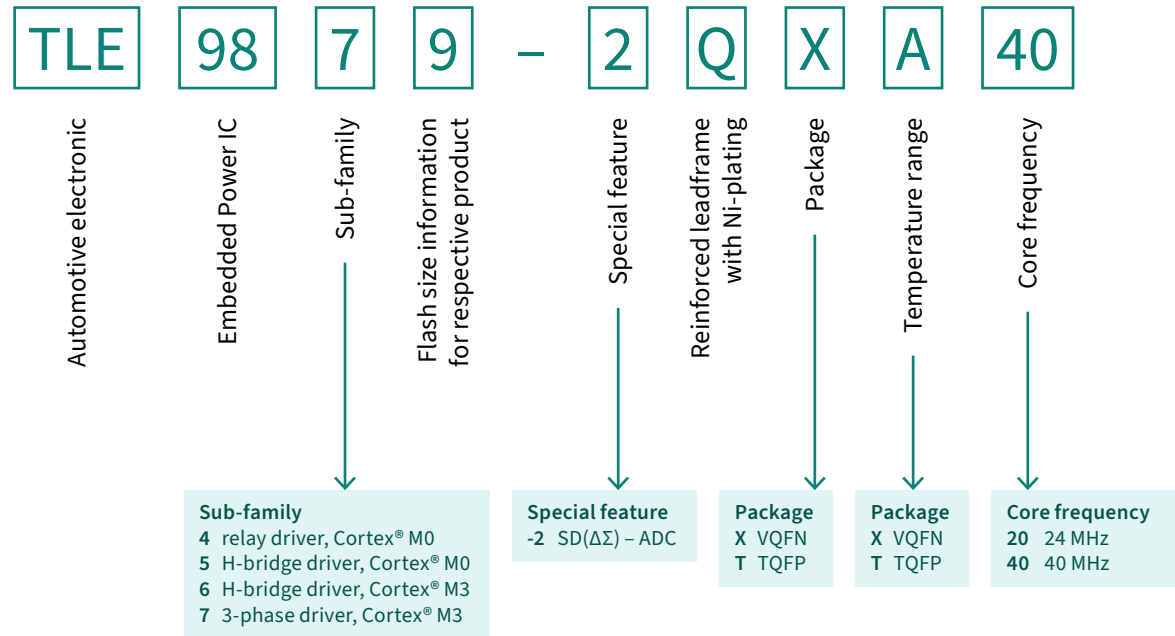
Gen7XL – Multi-chip

Product type/ partnumber	Number of Pins	Multitouch	Glove	H2O	Package
TSG7_XL MC					
CYAT837AZA98-42002	98	•	•	•	128-pin TQFP
CYAT837AZS98-42002	98	•	•	•	128-pin TQFP
CYAT847AZA98-42002	98	•	•	•	128-pin TQFP
CYAT847AZS98-42002	98	•	•	•	128-pin TQFP
CYAT837AZA88-42002	88	•	•	•	128-pin TQFP
CYAT837AZS88-42002	88	•	•	•	128-pin TQFP
CYAT847AZA88-42002	88	•	•	•	128-pin TQFP
CYAT847AZS88-42002	88	•	•	•	128-pin TQFP
CYAT837AZA77-42002	77	•	•	•	128-pin TQFP
CYAT837AZS77-42002	77	•	•	•	128-pin TQFP
CYAT847AZA77-42002	77	•	•	•	128-pin TQFP
CYAT847AZS77-42002	77	•	•	•	128-pin TQFP
CYAT847AZA72-22002	72	•	•	•	100-pin TQFP
CYAT847AZS72-22002	72	•	•	•	100-pin TQFP
CYAT847AZA61-22002	61	•	•	•	100-pin TQFP
CYAT847AZS61-22002	61	•	•	•	100-pin TQFP

PSoC™ Fingerprint FPG1

Product type/ part number	Active Imaging Area	Resolution	CPU	Firmware	Communication Interface	Encryption	Encryption Mode	Package Type	Package Size	Automotive Qualification	Operating Temperature
CYFP10020A00	8 x 8 mm	340 dpi	Cortex®-M0	Supplied by Infineon	SPI slave bit rates up to 7.8 Mbps	256-bit AES	ECB, CBC	BGA-73	8.87x9.26x0.70 mm	AEC-Q100	Automotive AECQ-Q100: -40 to +85°C
CYFP10020S00	8 x 8 mm	340 dpi	Cortex®-M0	Supplied by Infineon	SPI slave bit rates up to 7.8 Mbps	256-bit AES	ECB, CBC	BGA-73	8.87x9.26x0.70 mm	AEC-Q100	Automotive AECQ-Q100: -40 to +105°C

32-bit Embedded Power ICs based on Arm[®] Cortex[®] M



Selection table – Embedded Power ICs for Motor Control

Criteria	TLE984x	TLE9845QX	TLE9850/1QX(W)	TLE985x	TLE986x	TLE987x
Controller	Arm® Cortex®-M0				Arm® Cortex®-M3	
Core frequency	25/40 MHz	40 MHz			24/40 MHz	
Flash size	36–64 KB	48 KB	64 KB	48–96 KB	36–256 KB	
Driver stage	Relay	H-bridge		Half-bridge		B6-bridge
		PN FET	NN FET	N FET		N FET
High-voltage monitor inputs	4 – 5	5	4		1	
Junction temperature levels	150°C	150°C	175°C	150°C/175°C	150°C/175°C	
Package	VQFN-48-31		VQFN-48-29	VQFN-48-29 VQFN-48-31	TQFP-48-10 VQFN-48-29 VQFN-48-31	
Applications	Window lift Sunroof	Engine cooling fan Auxiliary water pump HVAC blower Fuel pump		Window lift Sunroof Wiper Power lift gate	Engine cooling fan Oil/water/fuel pump HVAC blower Power tools	

32-bit Embedded Power ICs based on Arm® Cortex® M

Product type/part number	Markets			GPIOs	Core Processor type	Core frequency [MHz]	System					De-bug	Supply voltage [V]	Operating temperature range TA [°C]	Memory					Data/IP protection	Fast LIN BSL bootloader	Peripherals clock [MHz]	Driver circuits			Analog				Timer				LIN										
	Automotive	Industrial	Consumer				Package	ERU	DMA	Watchdog	Real-Time Clock				SWD, SPD	JTAG, Trace	Flash	ECC	RAM [kByte]				Cache	EEPROM emulation in flash [kByte]	3 phase	2 phase	1 phase	High side switches	Low side switches	No. of 10-bit ADC channels	No. of 8-bit ADC channels	Operational amplifier	ΔΣ ADC		CCU6	GPT12	Timer 2/21	Timer 3	SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I ² C	IIS/I ² S
Relay Driver IC																																												
TLE9842QX	•	-	-	VQFN-48	10	Cortex® M0	25	-	-	•	•	•	•	-	5.5 to 28	-40 to 150	36 kByte	•	2 kByte	-	4 kByte	•	selectable	-	-	-	•	••	12 ch	7 ch	-	-	3 ch	•	•	-	•	-	•	-	-	•		
TLE9842-2QX	•	-	-	VQFN-48	10	Cortex® M0	40	-	-	•	•	•	•	-	5.5 to 28	-40 to 150	40 kByte	•	2 kByte	-	4 kByte	•	selectable	-	-	-	••	••	13 ch	7 ch	-	-	3 ch	•	•	-	•	-	•	-	-	•		
TLE9843QX	•	-	-	VQFN-48	10	Cortex® M0	25	-	-	•	•	•	•	-	5.5 to 28	-40 to 150	48 kByte	•	4 kByte	-	4 kByte	•	selectable	-	-	-	•	••	12 ch	7 ch	-	-	3 ch	•	•	-	•	-	•	-	-	•		
TLE9843-2QX	•	-	-	VQFN-48	10	Cortex® M0	40	-	-	•	•	•	•	-	5.5 to 28	-40 to 150	52 kByte	•	4 kByte	-	4 kByte	•	selectable	-	-	-	••	••	13 ch	7 ch	-	-	3 ch	•	•	-	•	-	•	-	-	•		
TLE9844QX	•	-	-	VQFN-48	10	Cortex® M0	25	-	-	•	•	•	•	-	5.5 to 28	-40 to 150	64 kByte	•	4 kByte	-	4 kByte	•	selectable	-	-	-	•	••	12 ch	7 ch	-	-	3 ch	•	•	-	•	-	•	-	-	•		
TLE9844-2QX	•	-	-	VQFN-48	10	Cortex® M0	40	-	-	•	•	•	•	-	5.5 to 28	-40 to 150	64 kByte	•	4 kByte	-	4 kByte	•	selectable	-	-	-	••	••	13 ch	7 ch	-	-	3 ch	•	•	-	•	-	•	-	-	•		
Relay Driver IC																																												
TLE9845QX	•	-	-	VQFN-48	10	Cortex® M0	40	-	-	•	•	•	•	-	5.5 to 28	-40 to 150	48 kByte	•	4 kByte	-	4 kByte	•	selectable	-	-	-	••	••	13 ch	7 ch	-	-	3 ch	•	•	-	•	-	•	-	-	•		
TLE9850QX	•	-	-	VQFN-48	10	Cortex® M0	40	-	-	•	•	•	•	-	5.5 to 28	-40 to 150	48 kByte	•	4 kByte	-	4 kByte	-	selectable	-	-	•	•	-	12 ch	9 ch	•	-	3 ch	•	•	-	•	-	•	-	-	•		
TLE9851QXW	•	-	-	VQFN-48	10	Cortex® M0	40	-	-	•	•	•	•	-	5.5 to 28	-40 to 175	64 kByte	•	4 kByte	-	4 kByte	•	selectable	-	-	•	•	-	12 ch	9 ch	•	-	3 ch	•	•	-	•	-	•	-	-	•		
Relay Driver IC																																												
TLE9852QX	•	-	-	VQFN-48	10	Cortex® M0	40	-	-	•	•	•	•	-	5.5 to 28	-40 to 150	48 kByte	•	4 kByte	-	4 kByte	•	selectable	-	•	-	•	-	11 ch	9 ch	-	-	3 ch	•	•	-	•	-	•	-	-	•		
TLE9853QX	•	-	-	VQFN-48	10	Cortex® M0	40	-	-	•	•	•	•	-	5.5 to 28	-40 to 150	48 kByte	•	4 kByte	-	4 kByte	•	selectable	-	•	-	•	-	12 ch	9 ch	•	-	3 ch	•	•	-	•	-	•	-	-	•		
TLE9854QX	•	-	-	VQFN-48	10	Cortex® M0	40	-	-	•	•	•	•	-	5.5 to 28	-40 to 150	64 kByte	•	4 kByte	-	4 kByte	•	selectable	-	•	-	•	-	12 ch	9 ch	•	-	3 ch	•	•	-	•	-	•	-	-	•		
TLE9854QXW	•	-	-	VQFN-48	10	Cortex® M0	40	-	-	•	•	•	•	-	5.5 to 28	-40 to 150	64 kByte	•	4 kByte	-	4 kByte	•	selectable	-	•	-	•	-	12 ch	9 ch	•	-	3 ch	•	•	-	•	-	•	-	-	•		

32-bit Embedded Power ICs based on Arm® Cortex® M

Product type/part number	Markets			Package	GPIOs	Core		System				De-bug	Supply voltage [V]	Operating temperature range TA [°C]	Memory					Data/IP protection	Fast LIN BSL bootloader	Peripherals clock [MHz]	Driver circuits			Analog				Timer				SPI	Dual SPI	Quad SPI	UART/SCI	IIC/I ² C	IIS/I ² S	LIN			
	Automotive	Industrial	Consumer			Processor type	Core frequency [MHz]	ERU	DMA	Watchdog	Real-Time Clock				SWD, SPD	JTAG, Trace	Flash	ECC	RAM [kByte]				Cache	EEPROM emulation in flash [kByte]	3 phase	2 phase	1 phase	High side switches	Low side switches	No. of 10-bit ADC channels	No. of 8-bit ADC channels	Operational amplifier	ΔΣ ADC								CCU6	GPT12	Timer 2/21
H-Bridge Driver IC																																											
TLE9855QX	•	-	-	VQFN-48	10	Cortex® M0	40	-	-	•	•	•	•	-	5.5 to 28	-40 to 150	96 kByte	•	4 kByte	-	4 kByte	•	selectable	•	-	-	•	-	12 ch	9 ch	•	-	3 ch	•	•	-	•	-	-	•	-	-	•
TLE-9861QXA20	•	-	-	VQFN-48	10	Cortex® M3	24	-	13 ch	•	•	•	•	-	5.5 to 28	-40 to 150	36 kByte	•	3 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	10 ch	•	-	3 ch	•	•	•	•	-	-	•	-	-	-
TLE-9862QXA40	•	-	-	VQFN-48	10	Cortex® M4	40	-	13 ch	•	•	•	•	-	5.5 to 28	-40 to 150	256 kByte	•	8 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	10 ch	•	-	3 ch	•	•	•	•	-	-	•	-	-	•
TLE-9867QXA20	•	-	-	VQFN-48	10	Cortex® M3	24	-	13 ch	•	•	•	•	-	5.5 to 28	-40 to 150	64 kByte	•	6 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	10 ch	•	-	3 ch	•	•	•	•	-	-	•	-	-	•
TLE-9867QXA40	•	-	-	VQFN-48	10	Cortex® M3	40	-	13 ch	•	•	•	•	-	5.5 to 28	-40 to 150	64 kByte	•	6 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	10 ch	•	-	3 ch	•	•	•	•	-	-	•	-	-	•
TLE-9867QXW20	•	-	-	VQFN-48	10	Cortex® M3	24	-	13 ch	•	•	•	•	-	5.5 to 28	-40 to 175	64 kByte	•	6 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	10 ch	•	-	3 ch	•	•	•	•	-	-	•	-	-	•
TLE9868QXB20	•	-	-	VQFN-48	10	Cortex® M3	20	-	-	•	•	•	-	•	5.5 to 28	-40 to 150	128 kByte	•	4 kByte	-	5 kByte	•	selectable	•	-	-	-	-	6 ch	10 ch	-	••	3 ch	•	•	•	•	-	-	•	-	-	•
TLE-9869QXA20	•	-	-	VQFN-48	10	Cortex® M3	24	-	13 ch	•	•	•	•	-	5.5 to 28	-40 to 150	128 kByte	•	6 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	10 ch	•	-	3 ch	•	•	•	•	-	-	•	-	-	•
3-Phase Bridge Driver IC																																											
TLE-9871QXA20	•	-	-	VQFN-48	10	Cortex® M3	24	-	13 ch	•	•	•	•	-	5.5 to 28	-40 to 150	36 kByte	•	3 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	•	-	-	•	-	-	-
TLE-9872QTW40	•	-	-	TQFP-48	10	Cortex® M3	40	-	13 ch	•	•	•	•	-	5.5 to 28	-40 to 175	256 kByte	•	8 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	•	-	-	•	-	-	•
TLE-9872QXA40	•	-	-	VQFN-48	10	Cortex® M3	40	-	13 ch	•	•	•	•	-	5.5 to 28	-40 to 150	256 kByte	•	8 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	•	-	-	•	-	-	•
TLE9872-2QXA40	•	-	-	VQFN-48	10	Cortex® M3	40	-	14 ch	•	•	•	•	-	5.5 to 28	-40 to 150	256 kByte	•	8 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	9 ch	•	••	3 ch	•	•	•	•	-	-	•	-	-	•
TLE-9873QXW40	•	-	-	VQFN-48	10	Cortex® M3	40	-	13 ch	•	•	•	•	-	5.5 to 28	-40 to 175	48 kByte	•	3 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	•	-	-	•	-	-	•
TLE-9877QXA20	•	-	-	VQFN-48	10	Cortex® M3	24	-	13 ch	•	•	•	•	-	5.5 to 28	-40 to 150	64 kByte	•	6 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	•	-	-	•	-	-	•

32-bit Embedded Power ICs based on Arm® Cortex® M

Product type/part number	Markets			GPIOs	Core	System							De-bug	Supply voltage [V]	Operating temperature range TA [°C]	Memory					Data/IP protection	Fast LIN BSL bootloader	Peripherals clock [MHz]	Driver circuits			Analog				Timer				Dual SPI	Quad SPI	UART/SCI	IIC/I ² C	IIS/I ² S	LIN			
	Automotive	Industrial	Consumer			Package	Processor type	Core frequency [MHz]	ERU	DMA	Watchdog	Real-Time Clock				SWD, SPD	JTAG, Trace	Flash	ECC	RAM [kByte]				Cache	EEPROM emulation in flash [kByte]	3 phase	2 phase	1 phase	High side switches	Low side switches	No. of 10-bit ADC channels	No. of 8-bit ADC channels	Operational amplifier	ΔΣ ADC							CCU6	GPT12	Timer 2/21
3-Phase Bridge Driver IC																																											
TLE-9877QTW40	•	-	-	TQFP-48	10	Cortex® M3	40	-	13 ch	•	•	•	•	-	5.5 to 28	-40 to 175	64 kByte	•	6 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	•	-	-	•	-	-	•
TLE-9877QXA40	•	-	-	VQFN-48	10	Cortex® M3	40	-	13 ch	•	•	•	•	-	5.5 to 28	-40 to 150	64 kByte	•	6 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	•	-	-	•	-	-	•
TLE-9877QXW40	•	-	-	VQFN-48	10	Cortex® M3	40	-	13 ch	•	•	•	•	-	5.5 to 28	-40 to 175	64 kByte	•	6 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	•	-	-	•	-	-	•
TLE-9879QTW40	•	-	-	TQFP-48	10	Cortex® M3	40	-	13 ch	•	•	•	•	-	5.5 to 28	-40 to 175	128 kByte	•	6 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	•	-	-	•	-	-	•
TLE-9879QXA20	•	-	-	VQFN-48	10	Cortex® M3	24	-	13 ch	•	•	•	•	-	5.5 to 28	-40 to 150	128 kByte	•	6 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	•	-	-	•	-	-	•
TLE-9879QXA40	•	-	-	VQFN-48	10	Cortex® M3	40	-	13 ch	•	•	•	•	-	5.5 to 28	-40 to 150	128 kByte	•	6 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	•	-	-	•	-	-	•
TLE9879-2QXA40	•	-	-	VQFN-48	10	Cortex® M3	40	-	14 ch	•	•	•	•	-	5.5 to 28	-40 to 150	128 kByte	•	6 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	9 ch	•	•	3 ch	•	•	•	•	-	-	•	-	-	•
TLE-9879QXW40	•	-	-	VQFN-48	10	Cortex® M3	40	-	13 ch	•	•	•	•	-	5.5 to 28	-40 to 175	128 kByte	•	6 kByte	-	4 kByte	•	selectable	•	-	-	-	-	7 ch	9 ch	•	-	3 ch	•	•	•	•	-	-	•	-	-	•

Legacy: 16/32-bit Microcontroller

Product type	Automotive	Industrial	Consumer	Temperature ranges	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [kByte]	Co-processor	Digital I/O lines	Number of ADC channels	Timed IO channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces	Additional features /remarks
XC2000 for automotive applications																	
XC2200 for body applications																	
U-series																	
XC2220U	•	-	-	F, K	VQFN-48	40	32-64	8	MAC	33	10	17	•	-	-	1x USIC	-
L-series																	
XC2224L	•	-	-	F, K	VQFN-48	66	96-160	12	MAC	33	10	23	•	2	-	2x USIC	-
XC2234L	•	-	-	F, K	LQFP-64	66	96-160	12	MAC	49	19	24	•	2	-	2x USIC	CuWb
N-series																	
XC2238N	•	-	-	F, K	LQFP-64	80	192-320	34	MAC	38	9	22	•	6	-	4x USIC	CuWb
XC2268N	•	-	-	F, K	LQFP-100	80	192-320	34	MAC	76	16	32	•	6	-	6x USIC	CuWb
M-series																	
XC2237M	•	-	-	F, K	LQFP-64	80	448-832	50	MAC	38	9	22	•	6	-	6x USIC	-
XC2267M	•	-	-	F, K	LQFP-100	80	448-832	50	MAC	76	16	32	•	6	-	8x USIC	CuWb
XC2287M	•	-	-	F, K	LQFP-144	80	448-832	50	MAC	119	24	44	•	6	-	8x USIC	CuWb
I-series																	
XC2269I	•	-	-	F, K	LQFP-100	128	1088	90	MAC	76	19	32	•	6	-	10x USIC, 2x FlexRay	CuWb
XC2289I	•	-	-	F, K	LQFP-144	128	1088	90	MAC	118	28	44	•	6	-	10x USIC, 2x FlexRay	CuWb
H-series																	
XC2289H	•	-	-	F, K	LQFP-144	100	1600	138	MAC	119	24	44	•	4	-	10x USIC, 2x FlexRay	-
XC2299H	•	-	-	F, K	LQFP-176	100	1600	138	MAC	150	30	66	•	6	-	10x USIC, 2x FlexRay	-

Legacy: 16/32-bit Microcontroller

Product type	Automotive	Industrial	Consumer	Temperature ranges	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [kByte]	Co-processor	Digital I/O lines	Number of ADC channels	Timed IO channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces	Additional features /remarks
XC2300 for safety applications																	
A-series																	
XC2336A	•	-	-	F, K	LQFP-64	40	448-832	50	MAC	38	9	24	•	2	-	4x USIC	-
XC2365A	•	-	-	F, K	LQFP-100	80	448-832	50	MAC	76	16	24	•	3	-	6x USIC	CuWb
XC2387A	•	-	-	F, K	LQFP-144	80	448-832	50	MAC	119	24	32	•	3	-	6x USIC	CuWb
B-series																	
XC2336B	•	-	-	F, K	LQFP-64	80	320	34	MAC	38	9	20	•	2	-	4x USIC	CuWb
XC2365B	•	-	-	F, K	LQFP-100	80	192-320	18-34	MAC	76	16	24	•	3	-	6x USIC	CuWb
C-series																	
XC2388C	•	-	-	F, K	LQFP-144	100	1088-1600	138	MAC	119	24	32	•	4	-	10x USIC, 2x FlexRay	-
D-series																	
XC2321D	•	-	-	F, K	VQFN-48	80	96-160	12	MAC	33	10	23	•	2	-	2x USIC	-
XC2331D	•	-	-	F, K	LQFP-64	80	96-160	12	MAC	49	19	24	•	2	-	2x USIC	CuWb
E-series																	
XC2368E	•	-	-	F, K	LQFP-100	128	576-1088	90	MAC	75	16	32	•	3	-	6x USIC, 2x FlexRay	CuWb
XC2388E	•	-	-	F, K	LQFP-144	128	576-1088	90	MAC	118	24	32	•	3	-	8x USIC, 2x FlexRay	CuWb
S-series																	
XC2320S	•	-	-	F, K	VQFN-48	66	32-64	8	MAC	33	10	17	•	-	-	1x USIC	-

Legacy: 16/32-bit Microcontroller

Product type	Automotive	Industrial	Consumer	Temperature ranges	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [kByte]	Co-processor	Digital I/O lines	Number of ADC channels	Timed IO channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces	Additional features /remarks
XC2700 for powertrain applications																	
2-series																	
XC2722X	•	-	-	K	VQFN-48	40	64	8	MAC	33	10	17	•	-	-	2x USIC	-
3-series																	
XC2723X	•	-	-	K	VQFN-48	66	160	12	MAC	33	10	23	•	2	-	2x USIC	-
XC2733X	•	-	-	K	LQFP-64	66	160	12	MAC	49	19	24	•	2	-	2x USIC	CuWb
4-series																	
XC2734X	•	-	-	K	LQFP-64	80	320	34	MAC	38	9	20	•	2	-	4x USIC	CuWb
XC2764X	•	-	-	K	LQFP-100	80	320	34	MAC	76	16	24	•	2	-	4x USIC	CuWb
5-series																	
XC2765X	•	-	-	K	LQFP-100	80	576-832	50	MAC	76	16	37	•	2	-	4x USIC	CuWb
XC2785X	•	-	-	K	LQFP-144	80	576-832	50	MAC	119	24	44	•	2	-	4x USIC	CuWb
7-series																	
XC2787X	•	-	-	K	LQFP-144	100	1600	138	MAC	119	24	60	•	2	-	6x USIC	-
8-series																	
XC2768X	•	-	-	K	LQFP-100	128	1088	90	MAC	76	19	32	•	2	-	10x USIC, 2x FlexRay	CuWb
XC2788X	•	-	-	K	LQFP-144	128	1088	90	MAC	118	28	44	•	2	-	10x USIC, 2x FlexRay	CuWb
XC2320S	•	-	-	F, K	VQFN-48	66	32-64	8	MAC	33	10	17	•	-	-	1x USIC	-

MAC = Multiply-Accumulate-Unit (DSP)

F = -40/+85 °C

USIC = ASC, SPI, I²C, I²S

K = -40/+125 °C

Legacy: 16-bit Industrial Microcontroller

Product type	Automotive	Industrial	Consumer	Temperature ranges	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [kByte]	Co-processor	Digital I/O lines	Number of ADC channels	Timed I/O channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces	Additional features /remarks
XE166 real time signal controller for industrial and multi market																	
Classic series - alpha line																	
XE164x	-	•	•	F, K	LQFP-100	66/80	768	24-82	MAC	75	11-16	30-37	•	0-4	-	4-6x USIC	-
XE167x	-	•	•	F, K	LQFP-144	66/80	768	28-82	MAC	118	16-24	30-44	•	0-5	-	4-6x USIC	-
U series - compact line																	
XE161x	-	•	•	F, K	VQFN-48	40/66	64	8	MAC	33	10	15	-	-	-	2x USIC	-
L series - econo line																	
XE161x	-	•	•	F, K	VQFN-48	66/80	128-160	12	MAC	33	10	21	-	1	-	4x USIC	-
XE162x	-	•	•	F, K	LQFP-64	66/80	96-160	12	MAC	48	19	21	-	2	-	4x USIC	CuWb
N series - value line																	
XE162xN	-	•	•	F, K	LQFP-64	80	128-320	18-34	MAC	40	9	23	•	0-2	-	6x USIC	CuWb
XE164xN	-	•	•	F, K	LQFP-100	-	128-320	18-34	MAC	75	11-16	30	•	0-2	-	4-6x USIC	CuWb
M series - base line																	
XE162xM	-	•	•	F, K	LQFP-64	80	384-576	24-50	MAC	40	9	23	-	0-2	-	6x USIC	-
XE164xM	-	•	•	F, K	LQFP-100	80	384-576	26-50	MAC	76	11-16	30-37	•	0-4	-	4-6x USIC	CuWb
XE167xM	-	•	•	F, K	LQFP-144	80	384-576	34-50	MAC	119	16-24	30-44	•	0-6	-	4-8x USIC	CuWb
H series - high line																	
XE167xH	-	•	•	F, K	LQFP-144	100	1.024-1.600	138	MAC	98-118	24	60	•	6	-	10x USIC	-
XE169xH	-	•	•	F, K	LQFP-176	100	1.024-1.600	138	MAC	98-118	30	60	•	6	-	10x USIC	-

MAC = Multiply-Accumulate-Unit (DSP)

F = -40/+85 °C

USIC = ASC, SPI, I²C, I²S

K = -40/+125 °C

Legacy: 8-bit Microcontroller

Product type	Automotive	Industrial	Consumer	Temperature ranges	Package	Max clock frequency [MHz]	Program memory [kByte]	SRAM (incl. cache) [kByte]	Co-processor	Digital I/O lines	Number of ADC channels	Timed I/O channels (PWM, capture)	External bus interface	CAN nodes	Ethernet	Communication interfaces	Additional features /remarks
C500 family																	
C505CA-4EM /-IM	•	•	•	F, B, K	MQFP-44	20	0	1.25	-	34	8	4	-	1	-	1x USART	OTP, ROM less
C515C-8EM	•	•	•	F, B, K	MQFP-80	10	64	2.25	-	49	8	4	-	1	-	1x USART, 1x SSC	OTP
XC800 family																	
XC82x-series																	
XC822MT	•	•	•	F, K	TSSOP-16	24	2-4	0.5	-	17	4	4	-	-	-	1x UART, 1x SSC, IIN	-
XC83x-series																	
XC836MT	•	•	•	F, K, L	TSSOP-28	24	4-8	0.5	VC	25	8	4	-	-	-	1x UART, 1x SSC, IIN	-
XC86x-series																	
XC866	•	•	•	F, K, A, L	TSSOP-38	26.67	4-16	0.75	-	27	8	4	-	-	-	1x UART, 1x SSC	-
XC866I	•	•	•	F, K, A, L	TSSOP-38	26.67	4-16	0.75	-	27	8	4	-	-	-	1x UART, IIN BSI, 1x SSC	-
XC87x-series																	
XC878	•	•	•	F, K, X	IQFP-64	27	52-64	3	[VC]	48	8	10	•	[2]	-	2x UART, 1x SSC, [IIN]	-
XC88x-series																	
XC886	•	•	•	F, K, A, L	TQFP-48	24	24-32	1.75	[VC]	34	8	4	-	[2]	-	2x UART, [IIN BSI], [1x SSC]	-
XC888	•	•	•	F, K, [A], [L]	TQFP-64	24	24-32	1.74	[VC]	48	8	4	-	[2]	-	2x UART, [IIN BSI], [1x SSC]	-
CIC family (companion IC)																	
CIC61508	•	•	-	K	TSSOP-38	26.67	-	0.25	-	-	-	-	-	-	-	Safety signature watchdog	Flash

- [] = Optional features
- MDU = Multiply Divide Unit
- LIN BSL = LIN Bootstrap Loader
- SSC = Synchronous Serial Channel
- VC = Vector Computer (MDU + CORDIC)
- A = -40/+140 °C
- F = -40/+85 °C
- K = -40/+125 °C
- L = -40/+150 °C
- X = -40/+105 °C

Voltage regulators for Microcontrollers

Microcontroller family	Output voltage [V]	Output current (max) [mA]	Safety support	Voltage regulator	Automotive	Industrial
Legacy 8/16-bit Microcontrollers						
XC8xxx	3.3/5	30	-	TLE4296-2G; TLE4295G	•	-
XC8xxx	3.3/5	30	-	TLE4296-2G; TLE4295G	•	-
XC8xxx	5	300	-	TLS835B2EL; TLS835D2EL	•	-
XC8xxx	5	100	-	TLS810B1EJ; TLS810A1LD	•	-
XC8xxx	3.3/5	400	-	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxTA	•	-
XC8xxx	3.3/5	50	-	TLS810B1EJ; TLS810A1LD	•	-
XC8xxx	5	100	-	TLS810B1EJ; TLS810A1LD	•	-
XE166/XC2000	3.3/5	400	-	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxTA	•	-
XE166/XC2001	5	300	-	TLS835B2EL; TLS835D2EL	•	-
XE166/XC2002	5	100	-	TLS810B1EJ; TLS810A1LD	•	-
XE166/XC2003	5	100	-	TLS810B1EJ; TLS810A1LD	•	-
32-bit XMC™ Arm® Microcontroller						
XMC1000 series	3.3/5	300	-	TLS835B2EL; TLS835D2EL	•	-
XMC1000 series	3.3	150	-	TLE4266-2G; TLS820D3EL	•	-
XMC1000 series	5	100	-	TLS810B1EJ; TLS810A1LD	•	-
XMC1000 series	5	100	-	TLS810B1EJ; TLS810A1LD	•	-
XMC1000 series	3.3/5	400	-	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxTA	•	-
XMC4000 series	3.3/5	500	-	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxTA	•	-
XMC4000 series	3.3/5	300	-	TLS835B2EL; TLS835D2EL	•	-
32-bit AURIX™ TriCore™ Microcontroller						
AURIX TC21x/22x/23x	3.3	150/500	ASIL-D	TLF35584	•	-
AURIX TC21x/22x/23x	3.3	150/500	QM/ASIL-B	TLF502x1/TLS4120	•	-
AURIX TC21x/22x/23x	3.3	150/500	QM/ASIL-B	TLE9461/TLE9471	•	-
AURIX TC26x/27x/29x	3.3/5	250/400/500	ASIL-D	TLF35584	•	-
AURIX TC26x	3.3/5	250/400/500	QM/ASIL-B	TLE926xB/TLE9471	•	-
AURIX TC27x/29x	3.3/5	500	QM/ASIL-B	TLE9471	•	-

Voltage regulators for Microcontrollers

Microcontroller family	Output voltage [V]	Output current (max) [mA]	Safety support	Voltage regulator	Automotive	Industrial
32-bit AURIX™ TriCore™ Microcontroller						
AURIX TC33x	3.3/5	250/400/500	QM/ASIL-B	TLE926xB/TLE9471	•	-
AURIX TC33x A	3.3/5	-	QM/ASIL-B	TLF30681	•	-
AURIX TC35x A	3.3/5	750	ASIL-B	TLF30682	•	-
AURIX TC35x A	3.3/5	750	QM/ASIL-B	TLE927x/TLE9278B	•	-
AURIX TC36x/37x	3.3/5	500	QM/ASIL-B	TLE9471	•	-
AURIX TC37x	3.3/5	500	ASIL-D	TLF35584	•	-
AURIX TC38x/TC39x	3.3/5	750	ASIL-D	TLF35584 & TLF11251	•	-
AURIX TC38x/TC39x	3.3/5	750	QM/ASIL-B	TLE927x/TLE9278B	•	-
AURIX TC2xx & TC3xx	3.3/5	1000	-	TLS4120D0EPV	•	-
AURIX TC2xx & TC3xx	3.3/5	1800	-	TLS4120D0EPV	•	-
AURIX TC2xx & TC3xx	3.3/5	2300	-	TLS4125D0EPV	•	-
AURIX TC2xx & TC3xx	3.3/5	400	-	TLF80511TF/ EJ/ TC; TLE42764D; TLS850FxTA	•	-
AURIX TC2xx & TC3xx	3.3/5	1000	-	TLS4120D0EPV	•	-

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