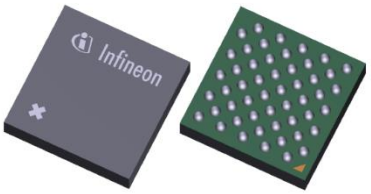
BGM687U50

7x LNA Bank with Output Cross-Switch for 5G

Features



- Wide operating frequency range: 600 - 2700 MHz
- 2x LB LNA group: 600-960 MHz
- 5x MLB/MHB LNA group: 1400-2700 MHz
- Highly flxible output MUX
- Gain Mode Support for MediaTek, LSI and Qualcomm platforms
- Support of 4x4 MIMO and EN-DC with just 2 LNA-Banks
- Programmable power gain:21 dB down to -12dB in 3dB steps
- Programmable current consumption for each LNA: 2.5 - 10 mA
- Noise figue for high gain mode: 0.8 dB
- Support of 1.2V and 1.8V Vdd/Vio
- RF output internally matched to 50 Ω
- Suitable for LTE / LTE-Advanced, 4G and 5G applications
- Integrated DC block capacitors at input and output
- Pin to pin compatible with MT6191 LNA bank
- Low power operation
- Small form factor 2.8 mm x 2.8 mm
- RoHS and WEEE compliant package
- USID select pin

RoHS
Halogen-Free
Lead-Free
Green

Description

The BGM687U50 is a 7x LNA-Bank with 2x Low Band and 5x Mid/High Band LNA groups with a complex output 7P7T cross-switch, designed for EN_DC/CA and MIMO operations.
The LNA-Bank supports 12 Gain Steps to optimize SNR, blocking performance and power consumption. The wideband LNA design with programmable gain (MIPI 3.0) and a highly configurable output MUX (7P7T) offer maximum system design flexibility.

Block diagram and ordering information

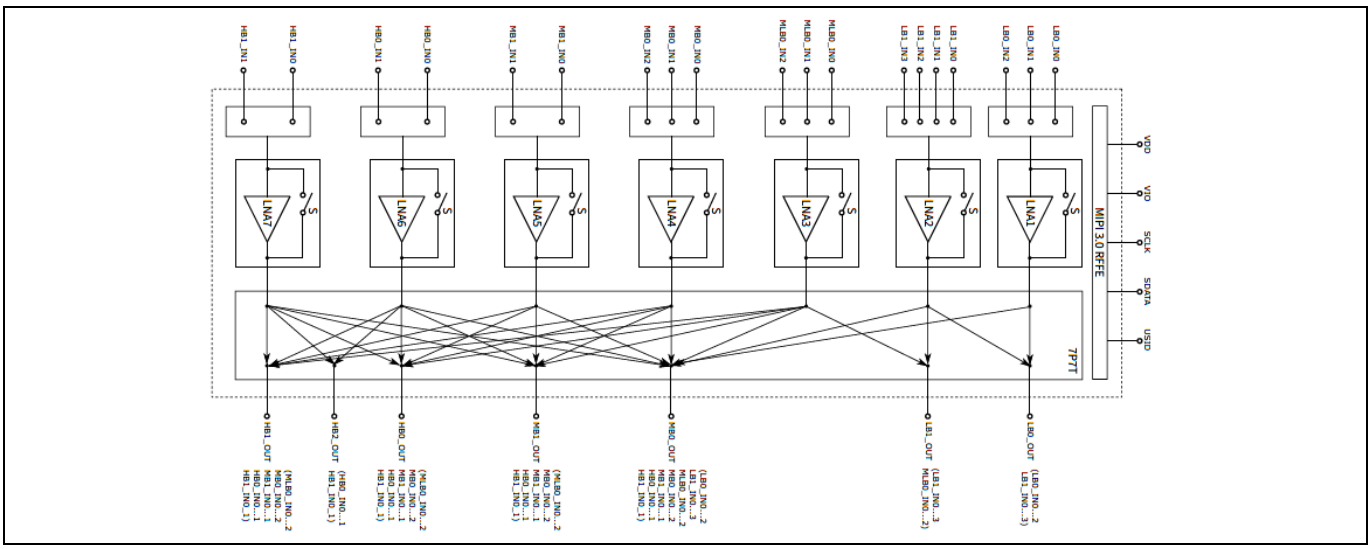


Figure 1 BGM687U50 Block diagram

Table 1 Ordering Information

Type	Marking	Package	Product name
BGM687U50	finA	PG-WF2BGA-50-1	BGM 687U50 E6327

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