



Paving the way for sustainable AI

We power AI

Jan 2025



Infineon and you – driving the AI revolution

Our technologies and AI-models drive the development of energy-efficient, high-performance and reliable AI applications of the future – and thus for your successful market entry.



We power AI

Efficient power semiconductors are critical to drive decarbonization and digitalization forward. We power AI from grid to core and pave the way for a new generation of greener and more robust AI servers.



We enable and provide AI

Supporting customer's innovation with semiconductor solutions, software, and tools that help deliver AI innovation quickly, efficiently, and at scale.



We use AI

Moving forward for high-quality solutions by adopting AI across the organization for smarter products and more streamlined processes.



We power AI

Electricity – Substantial increase in compute driven by AI

2022

Data centers' share of global final electricity demand was ~2%.*



2030

We expect data centers' share of global final electricity demand to rise to ~7-10%.

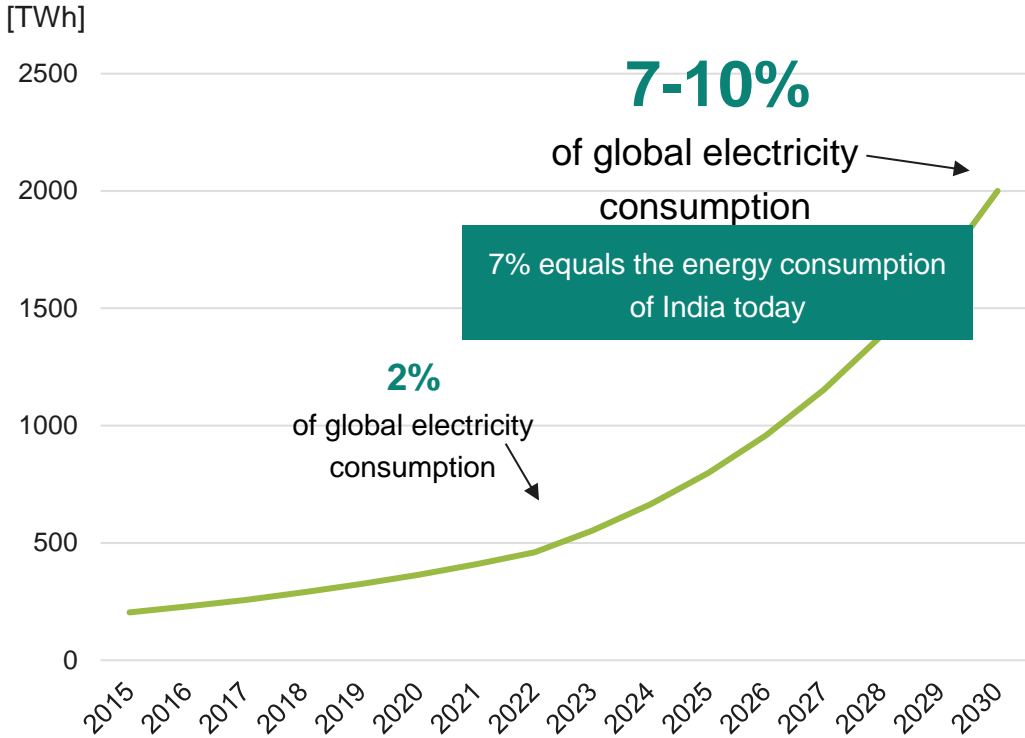


Example US

Data center power demand is forecasted to grow with a >15% CAGR from 2024 – 2030.

*incl cryptocurrency mining

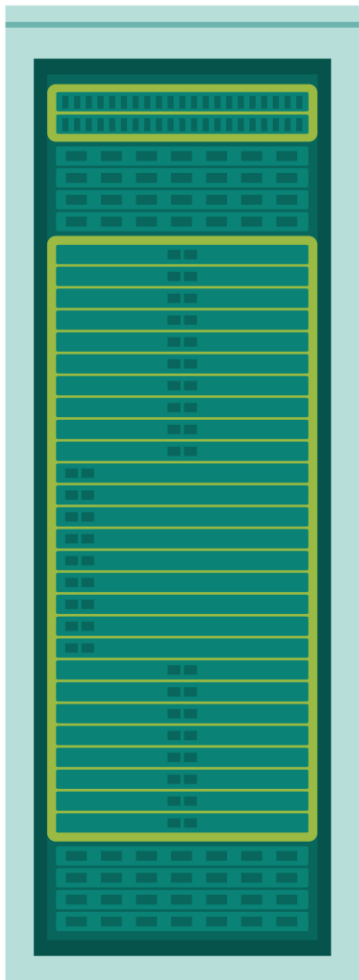
Projected electricity consumption of data centers



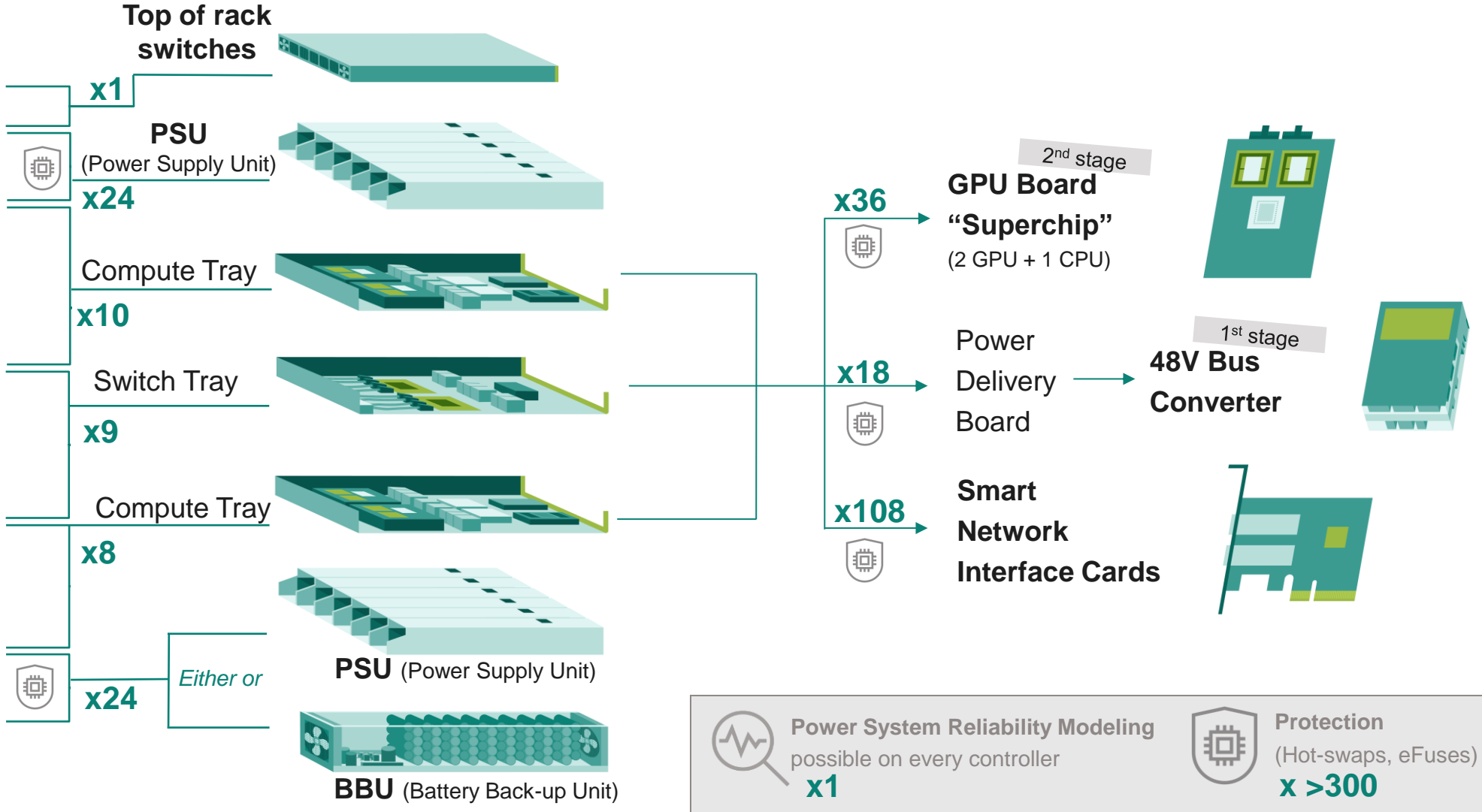
Sources: [IEA](#) including crypto mining energy use; Infineon assumption and calculation; [McKinsey](#), [BCG](#), [IEA](#)

We power AI from grid to core

High density AI server with **compute trays** for accelerate compute



Simplified visualization



<p>Power System Reliability Modeling possible on every controller x1</p>	<p>Protection (Hot-swaps, eFuses) x >300</p>
--	---

We power greener AI, shaping the future with our solutions

*Technology can help us
save the planet!*

> 22 million

metric tons

CO₂ equivalent

could be saved by using Infineon
products in all data centers.



Sources: Infineon assumption and calculation (2022); [IEA](#)

We master all...



System innovation with leading companies



Industry-leading **system and innovation expertise**



Best-in-class in **efficiency** and **lowest cost of ownership**



Full control of quality and supply- through **vertically integrated manufacturing flow**

