MARKET NEWS

Infineon launches ultra-high current density power modules to enable high-performance AI computing

Munich, Germany – 9 October 2024 – Data centers are currently responsible for more than two percent of global energy consumption. Fueled by AI, this number is expected to grow to up to around seven percent in 2030, matching the current energy consumption of India. Enabling efficient power conversion from grid-to-core is vital to enable superior power densities and thereby advance compute performance while reducing total cost of ownership (TCO). Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) is therefore launching the TDM2354xD and TDM2354xT dual-phase power modules with best-in-class power density for high-performance AI data centers. These modules enable true vertical power delivery (VPD) and offer industry's best current density of 1.6 A/mm^2. They follow the TDM2254xD dual-phase power modules introduced by Infineon earlier this year.

“We are proud to enable high-performance AI data centers with our TDM2354xT and TDM2354xD VPD modules. These devices will maximize system performance with Infineon’s trademark quality and robustness, thereby enabling best TCO for data centers,” said Rakesh Renganathan, Vice President Power ICs at Infineon Technologies. “Our industry-leading power devices and packaging technologies, combined with our extensive systems expertise, will further advance high-performance and green computing as part of our mission to drive digitalization and decarbonization.”

The TDM2354xD and TDM2354xT modules combine Infineon's robust OptiMOS™ 6 trench technology, a chip-embedded package that enables superior power density through enhanced electrical and thermal efficiencies, and a new inductor technology to enable lower profile and therefore, true vertical power delivery. As a result, the modules set new standards in power density and quality to maximize the compute performance and efficiency of AI data centers. The TDM2354xT modules support up to 160 A and are the industry's first Trans-Inductor Voltage Regulator (TLVR) modules in a small 8 x 8 mm² form factor. Combined with Infineon's XDP™ controllers, they offer extremely fast transient response and minimize on-board output capacitance by up to 50 percent, further increasing system power density.

The new modules will be showcased at Infineon's global technology forum OktoberTech™ 2024 in Silicon Valley on 17 October and at electronica 2024 in Munich from November 12 to 14 (hall C3, booth 502).

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Availability

Samples of the OptiMOS dual-phase power modules TDM2354xD and TDM2354xT are available now. Further information is available at www.infineon.com/aipowermodules.

About Infineon

Infineon Technologies AG is a global semiconductor leader in power systems and IoT. Infineon drives decarbonization and digitalization with its products and solutions. The company has around 58,600 employees worldwide and generated revenue of about €16.3 billion in the 2023 fiscal year (ending 30 September). Infineon is listed on the Frankfurt Stock Exchange (ticker symbol: IFX) and in the USA on the OTCQX International over-the-counter market (ticker symbol: IFNNY).

Further information is available at www.infineon.com
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