PRESS RELEASE

Infineon announces roadmap for state-of-the-art and energy-efficient power supply units in AI data centers

- **Artificial intelligence leads to increasing energy demand of data centers worldwide**
- **Infineon's new Power Supply Units (PSU) strengthen its leading position in AI power supply based on Si, SiC and GaN**
- **Operators of AI data centers benefit from the world's first 12 kW power supply unit thanks to higher energy efficiency, power density and reliability**

Munich, Germany – 24 May 2024 – The influence of artificial intelligence (AI) is driving up the energy demand of data centers across the globe. This growing demand underscores the need for efficient and reliable energy supply for servers. Today, Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) opens a new chapter in the energy supply domain for AI systems and unveils a roadmap of energy efficient power supply units (PSU) specifically designed to address the current and future energy need of AI data centers.

By introducing unprecedented PSU performance classes, Infineon enables cloud data center and AI server operators to reduce their energy consumption for system cooling. The innovative PSUs reduce power consumption and CO_2 emissions, resulting in lower lifetime operating costs. The powerful PSUs are not only used in future data centers but can also replace existing power supply units in servers and increase efficiency.

In addition to the current PSUs with an output of 3 kW and 3.3 kW available today, the new 8 kW and 12 kW PSUs will contribute to further increasing energy efficiency in future AI data centers. With the 12kW reference board, Infineon will offer the world's first power supply unit that achieves this level of performance and supplies future data centers with power.

"At Infineon, we power AI. We are addressing a critical question of our era – how to efficiently meet the escalating energy demands of data centers," says Adam White, Division President Power & Sensor Systems at Infineon. "It's a development that was only possible by Infineon's expertise in integrating the three semiconductor materials silicon (Si), silicon carbide (SiC), and gallium nitride (GaN) into a single module. Our PSU portfolio is therefore not only an example of Infineon's innovative strength, which leads to first-class results in

Public / For the Business and Trade Press: INFPSS202405.105e

Michael Burner (Headquarters)	+49 89 234 39300	michael.burner@infineon.com	**Investor Relations:**
Agnes Toan (Americas)	+1 408 250 1814	agnes.toan@infineon.com	+49 89 234 26655
Chi Kang David Ong (Asia-Pacific)	+65 6876 3070	david.ong@infineon.com	investor.relations@infineon.com
Lin Zhu (Greater China)	+86 21 6101 9199	lin.zhu@infineon.com	
Yasuyuki Kamiseki (Japan)	+81 3 4595 7079	yasuyuki.kamiseki@infineon.com	

terms of performance, efficiency and reliability for data centers and the AI ecosystem. It also reinforces Infineon's market leadership in power semiconductors."

Infineon is responding to the requirements of data center operators for higher system efficiency and lower downtimes. The growth of server and data center applications has led to an increase in power requirements, necessitating the development of power supplies with higher power ratings from 800 W up to 5.5 kW and beyond. This increase is driven by the growing power requirements of Graphic Process Units (GPU) on which AI applications are computed.

High-level GPUs now require up to 1 kW per chip reaching 2 kW and beyond by the end of the decade. This will lead to higher overall energy demand for data centers. Depending on the scenario, the International Energy Agency (IEA) predicts that data centers will account for up to seven percent of global electricity consumption by 2030; this is an order of magnitude comparable to India's current electricity consumption.

Infineon's new PSUs contribute to the efforts to limit the CO_2 footprint of AI data centers despite the rapidly growing energy requirements. This is made possible by a particularly high level of efficiency that minimizes power losses. Infineon's new generation PSUs achieve an efficiency of 97.5 percent and meet the most stringent performance requirements. The new 8 kW PSU is capable of supporting AI racks with an output of up to 300 kW and more. Efficiency and power density is increased to 100 watts per in³ compared to 32 W/in³ in the available 3 kW PSU, providing further benefits for the system size and cost savings for operators.

From a technical perspective, this is made possible by the unique combination of the three semiconductor materials Si, SiC and GaN. These technologies contribute to the sustainability and reliability of AI server and data center systems. Innovative semiconductors based on wide-bandgap materials such as SiC and GaN are the key to a conscious and efficient use of energy to drive decarbonization.

The 8 kW Power Supply Unit will be available in Q1 2025. For more information about the PSU roadmap, please click here.

Infineon at the PCIM Europe 2024

PCIM Europe will take place in Nuremberg, Germany, from 11 to 13 June 2024. Infineon will present its products and solutions for decarbonization and digitalization in hall 7, booths #470 and #169. Company representatives will also be giving several presentations at the accompanying PCIM Conference and Forums, followed by discussions with the speakers. If you are interested in interviewing an expert at the show, please email media.relations@infineon.com. Industry analysts interested in a briefing can email

Michael Burner (Headquarters)	+49 89 234 39300	michael.burner@infineon.com	**Investor Relations:**
Agnes Toan (Americas)	+1 408 250 1814	agnes.toan@infineon.com	+49 89 234 26655
Chi Kang David Ong (Asia-Pacific)	+65 6876 3070	david.ong@infineon.com	investor.relations@infineon.com
Lin Zhu (Greater China)	+86 21 6101 9199	lin.zhu@infineon.com	
Yasuyuki Kamiseki (Japan)	+81 3 4595 7079	yasuyuki.kamiseki@infineon.com	

MarketResearch.Relations@infineon.com. Information about Infineon's PCIM 2024 show highlights is available at www.infineon.com/pcim.

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
This press release is available online at www.infineon.com/press
Follow us: X - Facebook - LinkedIn

Public / For the Business and Trade Press: INFPSS202405.105e

Michael Burner (Headquarters)	+49 89 234 39300	michael.burner@infineon.com	**Investor Relations:**
Agnes Toan (Americas)	+1 408 250 1814	agnes.toan@infineon.com	+49 89 234 26655
Chi Kang David Ong (Asia-Pacific)	+65 6876 3070	david.ong@infineon.com	investor.relations@infineon.com
Lin Zhu (Greater China)	+86 21 6101 9199	lin.zhu@infineon.com	
Yasuyuki Kamiseki (Japan)	+81 3 4595 7079	yasuyuki.kamiseki@infineon.com	