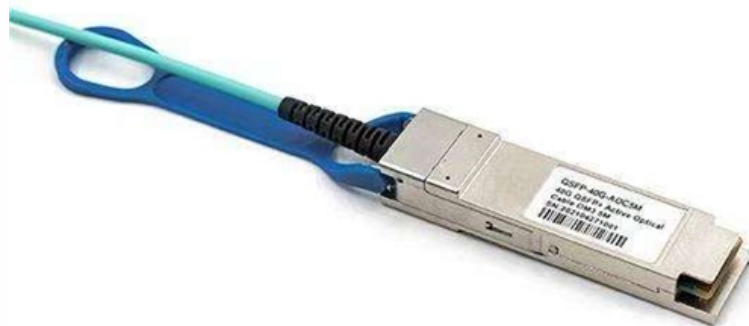


# **AI Server Power Supply Innovation**





## Overview

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This blog post explores innovations in power devices, gate drivers and advanced controllers with Digital Signal Processing (DSP) capabilities to meet Artificial Intelligence (AI) servers' power and efficiency needs. Infineon Technologies AG is revolutionizing the power architecture required for future AI data centers. Yole Group publishes its Power Electronics for Data Centers 2025 report, revealing how power availability, AI servers, and WBG technologies are reshaping data center architecture.



## AI Server Power Supply Innovation

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### **Infineon's roadmap for power supply in AI data centres , Electronic**

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Infineon Technologies 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

### **High-Density Power for the AI Revolution**

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To demonstrate potential performance improvements, Navitas has created a reference design for a 54 V AC-DC data center AI/GPU server power supply in a CRPS185 format using Navitas' GaNSafe and



## **TI's new power-management solutions enable scalable AI infrastructures**

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With new design resources and a broad power-management portfolio, TI is working alongside data center designers to implement a comprehensive approach that drives efficient, safe

## **Infineon announces roadmap for state-of-the-art and energy-efficient**

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By introducing unprecedented PSU performance classes, Infineon enables cloud data center and AI server operators to reduce their energy consumption for system cooling. The

## **Infineon: Architecture for power supply in AI servers of**

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This revolutionary step paves the way for the introduction of advanced power supply architectures in high-performance data centers for even faster AI computing and

## **Infineon: Power supply for artificial intelligence with state-of-the**

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The power solutions are designed to enable highly efficient, reliable and scalable power conversion in AI server racks. The BBUs achieve up to 400 percent higher power density compared to the industry

## **Meeting the Demanding Energy Needs of AI Servers**

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This blog post explores innovations in power devices, gate drivers and advanced controllers with Digital Signal Processing (DSP) capabilities to meet



## **Artificial Intelligence (AI) surge pushes data center PSU**

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This new edition provides a comprehensive analysis of the evolving power architectures enabling the global expansion of data centers and highlights

## **How to Choose an AI Server Power Supply Unit (PSU)?**

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AI Server Power Supply Solutions With the rapid development and widespread adoption of AI technology, the server market has undergone significant changes in recent years. The launch of

## **U.S. , Let There Be Change , Accenture**

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## **Data center trends 2026: Shifting up a gear**

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Uncover the secrets behind the data center boom--where speed, innovation, and AI collide. Explore the bold moves, rising stars, and game

## **Optimizing AI power supply units , Infineon Technologies**

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Webinar: Optimizing AI power supply units Register now and watch the exclusive webinar on-demand! Next-gen AI Server SMPS across Si, SiC, and GaN In this session we will discuss the latest



## **NVIDIA 800 VDC Architecture Will Power the Next**

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Power system components: Delta, Flex Power, Lead Wealth, LiteOn, Megmeet Data center power systems: Eaton, Schneider Electric, Vertiv This

## **Powering the AI Era: Innovations in Data Center Power**

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Powering the Next Era of AI Infrastructure As AI data centers scale toward multi-megawatt clusters and rack densities approach one megawatt, traditional power

## **Artificial Intelligence (AI) Services & Solutions , Accenture**

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Accenture's artificial intelligence (AI) services and solutions help you scale the impact of AI across your business for maximum value. Learn more.



## **Powering AI data centers: the role of power supply**

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Discover how AI features like "Hey Siri" rely on powerful data centers. Learn about the technology behind smart factories and the importance of stable

## **Infineon unveils roadmap for power supply units in AI**

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By introducing what is described as unprecedented PSU performance classes, Infineon is enabling cloud data-center and AI server operators to reduce their

## **Infineon: Roadmap for state-of-the-art and energy-**



## efficient power

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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

## Meeting the Demanding Energy Needs of AI Servers with Advanced

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This blog post explores innovations in power devices, gate drivers and advanced controllers with Digital Signal Processing (DSP) capabilities to meet AI servers' power and efficiency

## Powering the AI Era: Innovations in Data Center Power

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This compendium explores how the surge in artificial intelligence (AI) workloads is



transforming data center power architectures and includes suggestions for

## **Data center semiconductor trends 2025: Artificial**

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With the Data Center Semiconductor Trends 2025 report, Yole Group continues to investigate and report on the fast-moving edge of cloud and AI

## **2026 Predictions: AI Sparks Data Center Power Revolution**

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Experts predict that in 2026, data centers will be redefined as AI growth drives power demands, operational challenges, and sustainability innovation.



## **Gartner for Information Technology (IT) Leaders**

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Gartner's strategic advice, trusted insights and practical tools helps IT leaders identify opportunities for innovation and tackle their mission-critical priorities.

### **Optimizing AI power supply units , Infineon Technologies**

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In this session we will discuss the latest advancements in AI server power supplies, as we explore the trends and evolution of power conversion for Artificial Intelligence (AI) servers.

### **Energy and AI - Analysis**

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It includes projections for how much electricity AI could consume over the next decade, as well as which energy sources are set to help meet it. It also



## **Infineon: Architecture for power supply in AI servers of**

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May 20, 2025. Infineon Technologies AG is revolutionizing the power architecture required for future AI data centers. In collaboration with NVIDIA, Infineon will

## **Innovative 12kW Three-level Power Supply for AI Servers Empowered**

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This paper presents a 12kW AC/DC single-phase power supply to meet the growing power demands of data centers driven by training very large AI models. The combin.

### **Contact Us**

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