GaN State-of-the Art Showcased by EPC at PCIM Europe 2025

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EL SEGUNDO, CA, UNITED STATES, April 29, 2025 /EINPresswire.com/ -- EPC, the world's leader in enhancement-mode gallium nitride (GaN)-based power solutions, will exhibit its latest advancements in high-performance GaN technology at PCIM Europe 2025, taking place 6–8 May in Nuremberg, Germany.

Visit EPC in Hall 9, Stand 318 to see a wide array of GaN-based power solutions powering next-generation applications—from high-density computing to motor drives for humanoid robots, automotive electrification, and satellites. Live demonstrations will highlight EPC's latest GaN FETs and ICs in real-world applications that emphasize smaller size, higher efficiency, and lower cost compared to silicon solutions.

Motor Drives: Powering Robotics, Automation, and More

From industrial automation to smart consumer devices, GaN-based motor drives offer higher efficiency, smaller size, and improved performance compared to traditional silicon solutions. EPC's latest GaN technology powers motor drive applications across a wide range of industries, including:

- Humanoids & Quadrupeds – Enabling next-generation robotics with faster response times, lighter joints, and greater energy efficiency.
- Drone Motors – Delivering longer flight times, compact size, and precise control through high-speed switching.
- Power Tools – Extending battery life and increasing torque with compact, high-efficiency GaN motor drives.
- Vacuum Cleaners & Delivery Robots – Empowering smarter, more autonomous systems with

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> *Nick Cataldo, VP of Sales and Marketing at EPC*

high power density and thermal performance.

48 V = GaN: Powering the Future of High-Density Computing

Today's high-density computing environments demand compact, efficient power solutions to meet rising performance and thermal requirements. EPC's latest GaN technology for AC/DC server power and 48 V DC-DC power conversion delivers reduced losses, increased power density, enhanced thermal performance, and best-in-class efficiency—enabling more computing in less space.

Visit EPC at PCIM Europe 2025:

• Schedule a Meeting: EPC's technical experts, including CEO Dr. Alex Lidow, will be on-site to discuss how GaN is driving innovation across multiple industries. To schedule a meeting during PCIM contact info@epc-co.com

• Exhibition Booth Hall 9, Stand 513: Visit EPC's booth to explore our comprehensive portfolio of GaN-based solutions and applications.

• Technical Presentations: Attend our technical sessions to gain insights into the latest trends and advancements in GaN power conversion technology.

o GaN-Based 5 kW Four-Level Totem-Pole PFC Converter for AI Servers Power Supply
Speaker: Marco Palma
o Bodo's Power Systems – GaN Expert Panel at PCIM 2025
Panelist: Alex Lidow, Ph.D.
o 5 kW Isolated 400 V to 50 V, DC-DC Converter for Server Power Supplies
Speaker: Michael de Rooij, Ph.D.
o Design of GaN FET-Based Multilevel Three-Phase Inverter for High Voltage Automotive Applications
Speaker: Fabio Mandrile, Polytechnical University of Turin
o Next Generation GaN Platform for High-Density DC-DC Converters
Speaker: Alex Lidow, Ph.D.

"PCIM Europe is the ideal stage to show how EPC's GaN is transforming power electronics—from server power to robotics, we're helping engineers unlock the full potential of wide bandgap solutions," said Nick Cataldo, VP of Sales and Marketing at EPC.

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