

EPC Announces Mass Production of 100 V Integrated GaN Power Stages for High-Performance Motor Drives

ePower™ Stage ICs are now in volume production, enabling scalable designs for robotics, drones, and compact battery-powered systems

EL SEGUNDO, CA, UNITED STATES, August 26, 2026 /EINPresswire.com/ -- [Efficient Power Conversion \(EPC\)](#), a leader in enhancement-mode gallium nitride (eGaN®) power devices, today announced the start of mass production for its [100 V integrated GaN power-stage IC family: EPC23108, EPC23109, EPC23110 and EPC23111](#).

Designed for high-performance motion control applications, the monolithic ePower™ Stage ICs integrate high-side and low-side eGaN® FETs, gate drivers, and level-shifting circuitry into a compact thermally enhanced QFN package. The devices support up to 100 V operation with current ratings of 35 A and 20 A, delivering high efficiency, power density, and simplified system design. The family features advanced protection such as fast fault shutdown, safe gate control under power-loss conditions and continuous duty-cycle operation at 100%. There are also single-input PWM options for simpler multi-axis motor control designs.

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Alex Lidow, EPC CEO

“The move to volume production reflects the strong market demand for integrated GaN power stages that simplify design while delivering high performance and reliability,” said EPC CEO Alex Lidow.



EPC231xx 100V now in mass production

To accelerate system development and evaluation, EPC also offers the EPC91128, EPC91129, EPC91130, and EPC91131 three-phase BLDC motor drive evaluation boards. Built around the EPC23108, EPC23109, EPC23110, and EPC23111 ePower™ Stage ICs, these compact inverter platforms integrate gate drivers, current and voltage sensing, housekeeping power supplies, temperature monitoring, and protection features.



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The EPC23108/09/10/11 family is now available through the EPC global distribution network with Digi-Key and Mouser, supporting applications such as humanoid robots, drones, industrial motor drives, medical equipment, synchronous rectification, and high-density DC-DC converters, with production ramping up.

The EPC23108 and EPC23109 devices are priced at US\$3.70 each, and the EPC23110 and EPC23111 devices are priced at US\$2.47 each, in 3000-pieces quantities.

To help engineers accelerate design and system validation, EPC is also releasing a comprehensive technical white paper, available in both English and Chinese. The paper explores the architecture, design considerations, and evaluation platforms for the new EPC23108, EPC23109, EPC23110, and EPC23111 integrated GaN power-stage ICs, providing practical guidance for robotics, drones, and high-performance motor-drive applications.

The EPC91128 and EPC91129 evaluation boards are priced at US\$640 each, while the EPC91130 and EPC91131 evaluation boards are priced at US\$630 each.

About EPC

EPC is the leader in enhancement mode gallium nitride (eGaN®) based power management. Founded in 2007 by experts in power electronics, semiconductors, and business management, the company leverages cutting-edge technology to advance the field of power electronics through the development and commercialization of GaN-based power devices. eGaN FETs and integrated circuits provide performance many times greater than the best silicon power MOSFETs in applications such as DC-DC converters, remote sensing technology (lidar), motor drives for eMobility, robotics, and drones, and low-cost satellites.

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Press contact: Efficient Power Conversion: Maurizio Di Paolo Emilio email:
maurizio.dipaoloemilio@epc-co.com

Maurizio Di Paolo Emilio
Efficient Power Conversion
maurizio.dipaoloemilio@epc-co.com

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