MARKET NEWS

Infineon introduces the industry's first highly integrated single-port USB Type-C PD microcontroller with integrated 55 V buck-boost controller

Munich, Germany – 03 March 2026 – Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) launched the EZ-PD™ PMG1-B2, the industry's first highly integrated single-port USB Type-C Power Delivery (PD) microcontroller with an integrated 55V buck-boost controller for 2- to 12-cell (2S to 12S) lithium-ion battery charging. The solution complies with the latest USB Type-C and PD specifications and supports a wide input voltage range from 4.5 to 55 V and a programmable switching frequency from 200 to 700 kHz.

The EZ-PD PMG1-B2 is ideal for high-voltage battery charging in embedded systems across consumer, industrial, and communications applications that are powered via USB-C and utilize the available MCU functions. Target applications include cordless power tools and gardening tools, cordless vacuum cleaners, cordless kitchen appliances, e-bikes, e-kick scooters, drones and robots, and more.

At the core of the EZ-PD PMG1-B2 is a 32-bit Arm® Cortex®-M0 processor with a 128 KB flash memory and 8 KB SRAM, providing the processing capability needed for customizable USB PD applications. The device integrates various analog and digital peripherals, including ADCs, PWMs, UART/I²C/SPI interfaces, and timers, reducing the bill of materials as well as the space required on the PCB. Development is simplified through a comprehensive SDK, fully interoperable USB PD stacks, and a proprietary software suite for easy customization. Integration of MCU, USB PD, high-voltage LDO, buck-boost battery charger, and battery protection blocks, including VBAT to GND short protection in PMG1-B2, helps reduce system BOM cost and simplifies the design for USB-C-based battery powered applications. The solution comes in a 68-pin QFN package and supports an ambient temperature range of -40°C to +85°C and a maximum operating junction temperature of 125°C.

Based on the EZ-PD PMG1-B2, Arrow Electronics and Infineon will soon introduce a 240 W USB-C PD 3.2 reference design that combines the new controller with Infineon's PSOC™ C3 and 100 V CoolGaN™ G5 transistors to enable compact, high-efficiency battery-powered motor control systems. Supporting fast charging for 2- to 12-cell Li-ion battery packs and advanced motor drive control, the demo board targets applications such as e-bikes, e-scooters, power tools, home appliances, garden equipment, and robotics.

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The EZ-PD PMG1-B2 will also be featured at Arrow's booth at Embedded World (4A-342), offering visitors an opportunity to experience its capabilities and learn more about its role in next-generation USB-PD system designs.

Availability

Production of the EZ-PD PMG1-B2 is expected to begin in the second quarter of 2026. Samples, technical documentation, and evaluation boards are available upon request. Further information is available at www.infineon.com/pmg1-b2

Infineon at embedded world

Embedded world will take place in Nuremberg, Germany, from 10 to 12 March 2026. Infineon will present its products and solutions for decarbonization and digitalization in hall 4A, booth #138, and virtually. For press inquiries, please contact media.relations@infineon.com. Industry analysts interested in a briefing can email marketresearch.relations@infineon.com.

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 had around 57,000 employees worldwide (end of September 2025) and generated revenue of about €14.7 billion in the 2025 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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