Market News

Infineon drives decarbonization and digitalization for a greener future with innovative semiconductor solutions at PCIM Europe 2023

Munich, Germany – 19 April, 2023 – Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) offers power solutions such as CoolSiC™ and CoolGaN™ that enable higher energy efficiency. This makes them key to sustainable designs and an important building block for the energy transition. At PCIM Europe 2023, Infineon will showcase how its latest solutions in power semiconductors and wide bandgap technologies provide answers to the current challenges of green and digital transformation. Under the motto “Driving decarbonization and digitalization. Together.”, the company will offer numerous demonstrations, live TechTalks, and the opportunity to discuss design challenges with experts. Alternatively, industry professionals can register for the Infineon's virtual platform, which will be available around the clock from 27 April onwards.

WBG technologies take energy efficiency to the next level

Infineon's wide bandgap (WBG) portfolio offers comprehensive options with excellent efficiency and very high power density. Highlights of Infineon's wide bandgap portfolio include CoolGaN based USB-C adapters and chargers, as well as solutions for e-mobility with CoolGaN SG HEMTs, EiceDRIVER™ gate driver ICs and XENSIV™ sensors. New chip technologies including HybridPACK™ Drive CoolSiC G2 simplify automotive electrification, and packaging innovations for Si, SiC and GaN power technologies with topside cooling (TSC) enable pushing the limits of efficiency and power density in high-performance industrial and automotive applications. These and other demonstrations will be showcased at Infineon’s booth #412 in hall 7.

More PCIM 2023 highlights

Energy transition technologies – With power semiconductors that improve the efficiency and miniaturization of wind and photovoltaic plants, Infineon not only supports the most climate-friendly forms of energy generation, but also promotes the competitiveness of renewable energies. Feasible storage solutions are also enabled by Infineon's power portfolio, which is also an important factor in their economic viability. In addition, Infineon experts will present Infineon's product offering for

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sustainable hydrogen technologies – such as the broad IGBT and thyristor portfolio for hydrogen electrolysis.

Electric vehicle charging solutions – Infineon's power solutions for traction inverters, on-board chargers, DC-DC converters and battery management systems support the rapid expansion of e-mobility and e-transport along with the corresponding charging infrastructure. One highlight in this area is a modular 50 kW CoolSiC reference design for fast DC charging systems for electric vehicles. In addition to Infineon’s complete range of traction inverters, charging solutions such as the first wall-mounted DC charger, the alpitronic HYC50 bi-directional 50 kW charging station, will also be presented at the PCIM booth.

Energy efficient industrial automation – Growing demand for electricity, combined with the intermittent nature of renewable energy sources, means that advanced power management is essential to maintaining stable grid operations. The most effective way to meet these challenges is through intelligent power management, enabled by the use of intelligent protection components at all levels. While traditional electromechanical components have performance limitations, semiconductor solutions offer unprecedented control and protection capabilities. New and advanced power semiconductors are enabling cost-effective and reliable solid-state implementations across the board.

Smart Home & Smart Building – With its comprehensive technology portfolio of tailored, ready-to-use solutions, Infineon supports manufacturers in developing innovative system designs for homes that meet the growing demand for smart, connected and energy-efficient living experiences. Among other things, Infineon will present its reference solution for IoT-connected air conditioners, which are equipped with sensors to monitor their surroundings and respond to the needs of people. In this way, the air conditioning system can be dynamically controlled as needed, which also regulates energy demand.

AI-powered analysis of machines and industrial equipment – With the acquisition of Berlin-based startup Industrial Analytics, Infineon strengthens its software and services business in the field of artificial intelligence for predictive analysis of machines and industrial plants. Industrial Analytics develops artificial intelligence solutions that monitor and optimize machines and plants in order to detect critical

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developments at an early stage based on the analysis and evaluation of vibrations. Industrial Analytics' AI solutions not only evaluate data for predictive maintenance, but also provide recommendations for action.

In addition to the wide range of demonstrations, Infineon has organized a comprehensive series of TechTalks at its booth. The nine talks cover a wide range of topics including solid-state circuit breakers, energy storage systems, EV charging, heat pumps, hydrogen production, solar and traction inverters as well as CoolSiC and CoolGaN solutions. In addition, Infineon experts will participate in the PCIM conference and poster sessions. Full details of Infineon's conference presentations, technical workshops and TechTalks can be found here.

Infineon at the PCIM 2023

At the PCIM Europe 2023 tradeshow, Infineon is showcasing innovative product-to-system solutions for applications that will power the world and shape the future. Company representatives will also be giving several presentations at the accompanying PCIM Conference and Industry & E-Mobility Forum with live and on-demand video presentations, followed by discussions with the speakers. "Driving decarbonization and digitalization. Together." at the Infineon booth #412 in hall 7, 9-11 May, 2023 in Nuremberg/Germany. Information about the PCIM Europe 2023 show highlights is available at www.infineon.com/pcim.

More information about Infineon's contribution to energy efficiency:
www.infineon.com/green-energy

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