Ericsson Digital Power Module Wins Electronic Products China Award

- BMR457 Advanced Bus Converter named as a top-10 DC/DC power product by Electronic Products China

- Recognition of world-class innovative solutions to reduce the environmental impact of electronic equipment

- Eighth-brick-format BMR457 delivers unprecedented performance to system architects developing equipment for ICT (Information and Communication Technology) applications

Ericsson has been named as a winner in the annual Electronic Products China Top Product Awards. The innovative BMR457 32-bit processor-based FRIDA II 3E* digital Advanced Bus Converter (ABC) was named as a top 10 DC/DC power product by the magazine. The award is recognition of the company’s world-class expertise in consistently developing innovative and highly efficient products that significantly reduce the environmental impact of electronic equipment.

Ericsson has finely honed the efficiency of its research and development activities across the company, implementing a lean and agile R&D methodology. This has resulted in shortened feedback loops, improved communication and rationalized processes across all the company's product development, including its leading-edge technologies used in digital power modules. "The development of the BMR457 is a result of the extremely close cooperation between Ericsson R&D centers in both Sweden and China to deliver this leading-edge product in an exceptional fast timeframe," said Patrick Le Fèvre, Marketing and Communication Director, Ericsson Power Modules.

The BMR457 integrates a 32-bit ARM-based digital microcontroller that embeds the advanced 'Ericsson DC/DC Energy Optimizer' firmware. This has been developed by Ericsson to guarantee the highest performance at any point of operation from low to high load, which is commonplace when handling data traffic. The 'Ericsson DC/DC Energy Optimizer' firmware combines advanced Ericsson Intellectual Property (IP) together with a series of industry-first functionalities to continually optimize switching parameters and reduce energy consumption to an absolute minimum.

The BMR457 is available in two input voltage ranges: from 36V to 75V, delivering an output power of 264W; and 40V to 60V, delivering 300W. Output voltage can be adjusted in a range of 6.9V to 13.2V via PMBus commands, making BMR457 suitable for Dynamic Bus Voltage operation with its ability to reduce energy consumption when traffic data demand is low.

Ericsson was the first company to launch digitally controlled POL (point-of-load) regulators based on a digital core controller. Through close cooperation with board and systems' designers, the company was the first to release a 21st century power architecture that can be fully integrated into the rest of the digital chain of processors and associated components.

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