

## High efficiency DC/DC modules meet future DfE legislation without price premium

**Combining very competitive pricing with excellent performance and reliability, Ericsson Power Modules' PKM-E quarter bricks are designed to offer minimum environmental impact to meet future legislation. Featuring an open frame design with components mounted on one side only, the modules are very cost effective for OEM and CEM customers with applications in communications, avionics, industrial and medical equipment. Particularly useful in industrial applications, PKM-E modules are available with 24V inputs – not always the case with competitors' products.**

The first two products within the PKM-E family, PKM2510EPI and PKM4510EPI, are 18-36Vin, 3.3Vout, and 36-75Vin, 3.3Vout devices respectively. Offering a high efficiency figure of typically 90% at 3.3Vout, half load, the modules feature an industry standard quarter brick footprint and pin out, and are just 8.5mm high. This makes them extremely suited for narrow board pitch applications with board spacing down to 15mm.

The modules use patented synchronous rectification technology and address both the industrial and emerging telecom market for applications in the multi-service network by specifying the input range in accordance with ETSI specifications. Factors driving the demand for this type of product are price, design for environment and better performance.

The converters are assembled using lead free solder and a PCB with halogen free flame retardant and Electroless Nickel Immersion Gold (ENIG) plating. This means that future legislation such as the EU RoHS directive can already be met by the PKM-E family. This DfE feature is added without any price premium.

Ericsson Power Modules will be launching additions to the PKM2000E and PKM4000E series throughout the first half of 2004. The emerging PKM-E family of modules will embrace units with output power ratings up to 50W or output currents up to 20A. Output voltages will be in the range 1.2V to 15V, input voltages will cover 18-36V for PKM2000E, and 36-75V for PKM4000E. Input to output isolation is 1500VDC and the modules have a 7.0 million hours predicted MTBF at 40°C.

The PKM-E family complies with all the requirements for brick products namely; standard pin-out, remote control, sense leads, output voltage adjust, over voltage protection, overtemperature protection, and monotonic rise at start-up. Coupled with a complete program that addresses all the commonly

required output voltages, this means that Ericsson Power Modules' PKM-E family is a very viable, no compromise, cost effective platform that can replace more costly products with minimum qualification efforts. The PKM2510EPI and PKM4510EPI are priced at \$29.73 for 1,000 pieces.

*Ericsson is shaping the future of Mobile and Broadband Internet communications through its continuous technology leadership. Providing innovative solutions in more than 140 countries, Ericsson is helping to create the most powerful communication companies in the world.*

**FOR FURTHER INFORMATION, PLEASE CONTACT**

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**About Ericsson Power Modules**

Ericsson Power Modules is a supplier of world-class DC/DC power modules for distributed power architectures. With its global design, development, manufacturing and sales network Ericsson Power Modules is a leading supplier of power solutions to meet the customer demand for high performance.