

## **Space saving 1/16 brick DC/DC-converter's wide output trim feature reduces inventory needs**

**Meeting the dual need for increased power and reduced power supply real estate, Ericsson Power modules' PKU4000PI series of isolated DC/DC-converters for distributed power architectures firmly establishes the company in the industry's latest, 16th brick DC/DC module platform arena. Offering a 43% size reduction compared to standard 1/8 brick modules, the PKU4000PI modules offer designers more space to use for greater functionality and features within their systems.**

With production units set to be available in Q1 2005, the family of modules will embrace products with output voltages from 0.9V to 12V at a 36-75V input range and with output currents up to 25A. Particularly interesting is that Ericsson's 1.8V module will be able to cover 1.0V, 1.2V, 1.5V, and 1.8V output voltages, whereas normally a different one must be specified and used for each voltage. This enables the customer to optimize the supply chain and reduce inventory needs. Also, the power supply need not be changed even if a new ASIC, DSP or microprocessor requires a lower voltage than previously used – the 1.8V module will cover it.

Aimed at OEM and CEM customers with applications in communications, avionics, industrial and medical equipment, the products offer easy migration from 1/4 and 1/8 brick power supplies as the pin assignment is preserved. The modules are particularly suitable for high current and low voltage applications in enterprise and data processing equipment, and in wireless access and optical network equipment.

Factors driving the demand for these products are increased power consumption and need for reduced real estate occupied by power supplies. Technologies in the PKU4000PI supporting this evolution are synchronous rectification to boost efficiency, and reducing size, a ferrite core that integrates the transformer and the output choke is used.

Utilizing secondary side control technology, the modules feature a monotonic start-up even into a pre-biased condition. This is critical when products relying on synchronous rectification are used in sequential power up schemes.

Contained in a small package size of 33 x 22.9mm (1.3" x 0.9"), the PKU4000PI provides industry standard features including remote on/off, output voltage adjustment, remote sense, over-voltage, over-current and over-temperature protection.

Ericsson Power modules' PKU4000PI's standard footprint, pin-out, and functionality offer the benefit of multiple sourcing and easy migration from 1/4 and 1/8 brick format when size reduction is needed. The modules' lead-free design for environment ensures compliance with RoHS.

*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**

Patrick Le Fèvre, Marketing Director

Ericsson Power Modules AB

Phone: +46-8-568 695 07

Fax: +46-8-568 695 99

**Reader Inquiry reference:**

Press Release Reference: E0058(A)

If printing an Internet address please use Power Modules homepage and/or phone number to our International sales office:

URL: [www.ericsson.com/powermodules](http://www.ericsson.com/powermodules)

Europe: +46-8-568 696 20

U.S.A.: +1-972-583 6910/5254

China: + 86-21-5990 3258

**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.