

Distributed power architecture POL devices minimize total cost of ownership

Meeting the needs of the next generation of distributed power architectures – DPA level 4 – Ericsson Power Modules has introduced two ‘point of load’ (POL) modules that offer reduced inventory and logistics, thus minimizing total cost of ownership.

Featuring an output current of 16A, the PMB4518TWP has a wide input voltage range of 3 – 5.5V, and a wide output voltage of 0.75 – 3.6V. The PMB4418TWP shares this specification with the exception of a reduced output current rating of 10A.

The devices’ wide input voltage range, together with the programmable output voltage reduce the need for customers to stock many different devices each with their own specific voltage ratings. With a package size of 50.8 L x 8.4 W x 13.2 H mm, the devices reduce customer board space.

The PMB offers output sense and remote control as standard, whilst pre-trimmed versions are available on customers request.

Ericsson Power Modules’ PMB4418TWP and PMB4518TWP are comparable with other manufacturers’ POL devices in terms of power, size, input and output ratings, but offer better transient response and stability characteristics than most others.

Designed to deliver low voltages and high current levels for use close to the load – hence ‘point of load’ architecture – both devices offer high efficiency figures of 94% and take up minimum board space at low cost. Important application areas for the POL devices are telecommunications equipment, datacom applications, workstations and servers.

Samples are available.

Note to editors:

The introduction of POL architecture has largely been the result of the increasing power requirements of mainstream microprocessors and DSPs, the most recent of which operate from as little as 1.2V - but consume some 10 amps or more at times. The only solution is to place the final regulator in the power system very close to the load. This technique is known as point of load (POL) and the overall system architecture is described as DPA Level 4.

Time-to-market pressures and the need for design flexibility are also driving the take-up of DPA Level 4 architectures. The more distributed the power system, the easier it is to upgrade individual elements within it if each element has its own regulator or isolated DC/DC converter.

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: E0054(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

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.