

## **Ericsson expands POL regulators portfolio with advanced features and interoperability benefits**

**Ericsson Power Modules has expanded its interoperable POLA™ series of point of load (POL) regulators with an additional 17 products all intended for use in distributed power architectures. Offering secure sourcing and commonality of product specifications for ease of purchasing, three POL platforms have been introduced. For use in different application areas, the product platforms embrace current ratings from 6A to 60A, and most products are available with 3.3V, 5V, and 12V input capability.**

The products are aimed at OEM and CEM customers with applications in communications, avionics, industrial and medical equipment. The POL regulators provide a good fit with customers demanding multiple sources and design flexibility due to the number of vendors providing the same products within Point Of Load Alliance (POLA), and the wide range of platforms that will suit most power requirements. Enabling system builders to reduce costs, all products feature an open frame, reduced manufacturing cost design.

Designed for use in applications with DDR and QDR memory chips where a tightly controlled termination voltage is needed, nine new regulators are able to generate a termination voltage ( $V_{TT}$ ) with a  $\pm 40\text{mV}$  tolerance compared with the reference  $V_{DDQ}$ . The DDR/QDR series of POL regulators is available in three different power levels; PME-V for 6A, PMF-V for 10A and PMG-V for 15A versions. All are available in through hole and surface mount versions.

By maximizing power density to enable a minimised footprint thus saving board space, six single in line (SIP) products for 8A – PMK, and 18A – PML have been introduced. Equipped with the aforementioned input voltages, on all versions the output voltage can be set to any value between 0.8 and 5.5V. The SIP platform has a higher power density and more features than other well-known footprints on the market. As high current, non-isolated POL converters suitable for servers and current thirsty high-end computer applications, the PMM family of products is available in two input voltage variants, 3.0-5.5V and 8-14Vin. The parts can deliver up to 60A of output current with an efficiency peak of 96%. The output voltage can be externally configured by a chip resistor to any value between 0.8 and 5.5V. Again the regulators are available in both through hole and surface mount versions.

The PMM regulators use an innovative 3-phase design for optimum performance, and for tight voltage control they utilise a differential output

sense feature. The platform is unique due to its high power density combined with a high efficiency figure of 96%.

POL regulators allow for more design flexibility where there are many voltages in the same system. Also driving the demand for these products are complex circuits like ASICs and DSPs that demand power sequencing. Additionally, customers now demand multiple sourcing, and this trend has driven the industry to form alliances and standards; POLA being the first alliance that offers completely interoperable DC/DC products.

This latest range of POLA interoperable regulators from Ericsson Power Modules offers many options in terms of power, size and voltages, and their high efficiency offers increased reliability and system lifetime costs. Advanced features include power sequencing via an auto-track control, capability to start up into a pre-biased output, wide adjustment range, thermal shutdown, output sense, and inhibit control.

*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.