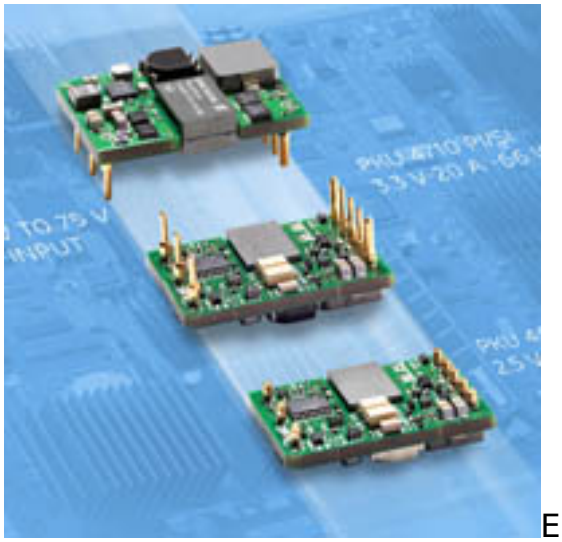
Power Converters Target Time-Sensitive Base Station and Telecom, Datacom Apps



Ericsson has introduced two sixteenth-brick format DC-DC converters that are asserted to provide designers with quick and reliable board-mounted power solutions, addressing increasing demands for shorter time-to-market. Designed to power 60-W to 65-W applications, the new PKU4619 and PKU4710 are primarily designed for telecom and datacom systems and equipment, but are also suitable for use in power industrial, process control, test and many other applications. Offering an input voltage range of 36 V to 75 V, the modules provide outputs of 2.5 V/25 A and 3.3 V/20 A, delivering output power of 62.5 W and 66 W, respectively. The new products are desirable for applications such as mini-base-stations and provide a simple solution when upgrading 50W boards to 60 W, or even slightly more, according to the company.

Due to their industry-standard footprint (33 mm x 22.9 mm) and height of 8.8mm, the duo can be used in low-profile applications when build height is critical. In addition, the devices' low profile, combined with high efficiency, makes them highly suitable for applications with reduced airflow. In a natural convection environment, full power can be delivered up to +40°C and, with a 3.0 m/s airflow, up to +80°C.

The PKU4619 and PKU4710 are built on Ericsson's robust power-module platform featuring optimized topology and layout, and use a limited number of components for increased reliability, while also making them extremely cost efficient. Offering an MTBF (Mean-Time-Before-Failure) of more than 3.6 million hours, the PKU4619 and PKU4710 meets safety requirements according to IEC/EN/UL 60950-1, offer input/output isolation of 1500 V(DC) with protection features including output-over-voltage protection (OVP), input under-voltage shutdown, over-temperature protection (OTP), and output short circuit protection.

Ericsson Power Modules
972-583-6910, www.ericsson.com/powermodules
[1]

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