

Power Integrations Releases Energy-Efficient Standby Power Supply Reference Designs Using New TOPSwitch(TM)-JX

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Designs Target PC-Gold, Server, and TV Power Supplies with High Efficiency from Standby to Full Load

SAN JOSE, Calif., Jul 21, 2010 (BUSINESS WIRE) -- Power Integrations (Nasdaq: **POWI**), the leader in high-voltage integrated circuits for energy-efficient power conversion, today published two new standby power supply reference designs using its recently announced **TOPSwitch-JX** IC product family. **TOPSwitch-JX** devices feature multi-mode control, minimizing power wasted in standby and delivering maximum efficiency over a wide range of operating loads. The new reference designs target applications that require more than 90% full-load efficiency to meet such standards as the 80 PLUS(R) Gold or Silver PC specifications, EuP Lot 6 standby rules, or the new California requirements for TV power usage.

DER-246 is a general-purpose evaluation platform and describes a PC standby power supply based on **TOPSwitch-JX** TOP265EG that operates from 110 VDC to 400 VDC input and provides > 91% efficiency at 12 V, 15 W. **DER-247**, based on **TOPSwitch-JX** TOP264EG, describes a supply for a similar application operating from 110 VDC to 400 VDC input and providing > 87% efficiency at 5 V, 10 W. For TV and other consumer products, the designs make 20 mW available to the load for just 100 mW of input power.

David New, product marketing manager at Power Integrations, comments: "More and more power supply designs require very good light-load efficiency performance and, with PC power supplies moving to the 80 PLUS Silver and Gold specifications, the PC-standby portion of the design needs to be exceptionally efficient all the way from light load to full load. The innovative control technique and power MOSFET technology of **TOPSwitch-JX** allow it to deliver

the performance needed for 80 PLUS Gold designs, saving component cost in other portions of the PC power supply."

TOPSwitch-JX is a highly integrated family of 16 power conversion ICs incorporating a 725 V power MOSFET for use in flyback power supplies. The novel **TOPSwitch-JX** multi-mode control algorithm maximizes power efficiency across the entire load range. High efficiency at full power minimizes power wasted during normal operation and reduces the complexity and expense of thermal management on the system. At low power levels, high efficiency enables adapters with extremely low no-load consumption and maximizes power available to the system in standby mode for applications constrained by standards and regulatory controls.

Along with the new reference designs, the **TOPSwitch-JX** introductory video and product datasheet are available now on the Power Integrations website at <http://www.powerint.com/lp/topswitch-jx>.

About Power Integrations

Power Integrations is the leading supplier of high-voltage integrated circuits used in energy-efficient power conversion. The company's innovative technology enables compact, energy-efficient power supplies in a wide range of electronic products, in AC-DC, DC-DC and LED lighting applications. Since its introduction in 1998, Power Integrations' EcoSmart(TM) energy-efficiency technology has saved an estimated \$4.2 billion of standby energy waste and prevented millions of tons of CO2 emissions. The company's **Green Room** web site provides a wealth of information about "energy vampires" and the issue of standby energy waste, along with a comprehensive guide to energy-efficiency standards around the world. Reflecting the environmental benefits of EcoSmart technology, Power Integrations is included in clean-technology stock indices sponsored by the **Cleantech Group** (Amex: CTIUS) and **Clean Edge** (Nasdaq: CELS). For more information, please visit www.powerint.com.

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