

Power Integrations' New TOPSwitch(R)-JX Power Conversion IC Family Enables 85 mW No-Load

3/3/2010

Integrated PSU Controller and 725 V MOSFET Deliver 20 mW Output Power for 100 mW Input Power in Standby Mode

SHENZHEN, China, Mar 03, 2010 (BUSINESS WIRE) -- Power Integrations (Nasdaq:**POWI**), the leader in high-voltage integrated circuits for energy-efficient power conversion, today launched **TOPSwitch-JX**, 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.

Excellent light-load efficiency and low power consumption in the no-load condition are facilitated by a novel multi-cycle modulation mode, which reduces the average switching frequency while minimizing output ripple and audible noise. This allows designs to easily meet stringent new efficiency specifications, such as **ENERGY STAR(R)** and the **EC EuP Ecodesign Directive**, while maintaining a stable output voltage. Standby power consumption below 100 mW (for a 20 mW load) at 264 VAC is easily achieved using **TOPSwitch-JX**.

David New, product marketing manager at Power Integrations, comments: "In addition to enhancing light-load operating efficiency, we have also increased the breakdown voltage to 725 V in this latest generation **TOPSwitch** device. This improves system reliability and allows operation with a high reflected voltage, which reduces the secondary diode cost in many designs. The new IC also incorporates a fast AC-reset circuit, which significantly reduces the number of primary-side components required."

TOPSwitch-JX is available in the new low-profile eDIP(TM) package, which is optimized for outstanding heat dissipation in slim-form-factor applications such as LCD monitors, TVs, and netbook/notebook adapters. The device is also well suited for printers, PC and TV standby, set-top boxes, and other consumer audio/video equipment requiring up to 177 W of power with a universal input voltage range.

The **TOPSwitch-JX** family is available now, priced between \$0.78 and \$1.69 each for 10,000-piece quantities. In addition to the thermally efficient eDIP package, the device is also available in PI's popular eSIP(R)-7C heatsink-mounted TO-220 replacement package. Comprehensive safety features include over-temperature, over-current, over-power, line over-voltage, line under-voltage, and user-selectable latching/non-latching output over-voltage protection with fast AC reset.

The product datasheet, design ideas, and introductory video are available now on the Power Integrations website at www.powerint.com/en/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(R) energy-efficiency technology has saved an estimated \$3.9 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.

SOURCE: Power Integrations

Power Integrations, Inc.
Peter Rogerson, 408-414-8573
progerson@powerint.com
or
Billings Europe PR Agency
Nick Foot, +44 (0) 1491-636 393
nick.foot@billings-europe.com