

# Power Integrations Doubles Power Output Capability of LinkZero™-AX Zero-Standby Switcher IC Family; Launches New How-to Video

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**PI University™** introductory course describes how to achieve zero watts of standby power consumption in consumer products and appliance applications

SAN JOSE, Calif.--(BUSINESS WIRE)-- Power Integrations (Nasdaq:**POWI**), the leader in high-voltage integrated circuits for energy-efficient power conversion, today introduced two new members of its **LinkZero-AX** product family (LNK585 and LNK586), along with a **PI University** introductory video course that explains how designers can achieve 0.00 watts of standby energy consumption. Launched in October 2010, the **LinkZero-AX** integrated offline switching IC family now offers increased main power output up to 6.5 watts — double the maximum output of earlier members of the product family. The expanded power range enables designers to utilize **LinkZero-AX** in a wider array of applications, including those with multiple auxiliary power functions, as is often the case in appliances, TVs, and remotely controlled electronic lighting ballasts.

**LinkZero-AX** eliminates wasted energy by employing an innovative power-down mode that effectively turns off the auxiliary power supply when the application is idle, shutting down switch-mode operation and internal switch control circuits. **LinkZero-AX** can be re-awakened from power-down mode with a reset pulse or button press. Also, the bypass pin can provide up to 500  $\mu$ A for use by any system-control or sensing circuit.

Key features of the **LinkZero-AX** family, including the special power-down mode, are described in the free-to-download **PI University** video course. The video also discusses how to handle transient load conditions and wake-up requirements, and how to deliver power to auxiliary outputs (such as IR receivers) during power-down mode.

Comments Silvestro Fimiani, product marketing manager at Power Integrations: "Last year, we launched the

industry's first IEC 62301 'Zero No-Load' IC family for appliances with the cost-effective **LinkZero-AX**. Extending the power range of **LinkZero-AX** to 6.5 watts means that appliance applications which require multiple auxiliary power functions can now achieve zero no-load."

Auxiliary power supplies continuously draw power as long as the product is plugged in, typically resulting in significant standby energy waste. **LinkZero-AX** ICs can reduce this usage to a minuscule 3 mW — low enough to be considered "zero" under IEC standards. (IEC 62301 Clause 4.5 classifies power usage of than 5 mW as zero.) Five years of continuous standby operation at 3 mW would consume less than 2 cents worth of energy.

Delivering the industry's lowest component count for standby power supplies, **LinkZero-AX** is a simple design upgrade and allows designers to easily exceed all global energy-efficiency regulations, including the European EcoDesign Directive and ENERGY STAR®. **LinkZero-AX** ICs are available now in SO-8C or SMD-8C packages priced at \$0.41 each for 10,000-piece quantities (LNK586DG). Full technical details, including the **PI University** course, product datasheet, and design ideas are available now on the Power Integrations website at [www.powerint.com/linkzero-ax](http://www.powerint.com/linkzero-ax).

## 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™ energy-efficiency technology has saved an estimated \$4.8 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' stock is included in The Cleantech Index® and the NASDAQ® **Clean Edge**® Green Energy Index. For more information, please visit [www.powerint.com](http://www.powerint.com).

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