

New LinkSwitch-TN2 Switcher ICs From Power Integrations Deliver High Accuracy in Non-Isolated Off-Line Applications

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Rugged off-line buck switcher IC survives wide fluctuations in mains supply

MUNICH--(BUSINESS WIRE)-- Power Integrations (Nasdaq: **POWI**), the leader in high-voltage integrated circuits for energy-efficient power conversion, today introduced its **LinkSwitch™-TN2** off-line switcher IC for non-isolated applications with up to 360 mA output current. The new device, which may be configured as a buck, buck-boost or a non-isolated flyback converter, delivers high accuracy, high efficiency and excellent no-load performance. The device incorporates new safety features including input and output over-voltage protection and a rugged MOSFET with a 725 V breakdown voltage, offering robust output short-circuit and over-temperature protection against line surges and swells. Applications include appliances, HVAC, industrial, home automation (IOT) and metering systems, particularly those destined for India and other geographies with challenging power grid stability.

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New LinkSwitch-TN2 Switcher ICs from Power Integrations Deliver High Accuracy in Non-Isolated Off-Line Applications (Photo: Business Wire)

LinkSwitch-TN2 ICs feature voltage regulation of better than $\pm 3\%$. This high level of

accuracy allows designers to eliminate post regulators, minimizing the BOM, increasing efficiency and reducing size. The new IC requires just 20 additional components to complete a buck converter, and may be configured to use off-the-shelf inductors, further reducing cost and supply chain complexity.

The new devices are very efficient in low-power applications— above 80 % in 12 V, 120 mA (1.4 W) buck designs for

example. LinkSwitch-TN2 designs typically provide excellent efficiency across the entire load range while consuming less than 30 mW no-load in a buck arrangement and less than 10 mW when configured as a non-isolated flyback. This is a key tool for designers addressing Total Energy Consumption (TEC) regulations, which prescribe an energy budget limit over a range of operating modes. LinkSwitch-TN2 efficiency performance enables manufacturers to design power supplies to meet worldwide product energy-efficiency requirements from the U.S. DOE, European Commission ErP Ecodesign Directive, California Energy Commission, ENERGY STAR®, and others.

Comments senior product marketing manager Silvestro Fimiani: “Our **LinkSwitch-TN2** off-line converter ICs include a selectable cycle-by-cycle current limit which allows designers to choose low-cost inductors and capacitors saving cost and board space, or configure the circuit to output higher power using optimized external components. The new device’s robust 725 V MOSFET allows a typical design to easily withstand 1 kV differential line surges without additional surge suppressors.”

LinkSwitch-TN2 ICs come in three different packages: PDIP-8C, SO-8C, and SMD-8C. Devices are available now, priced at \$0.60 in 10,000-piece quantities. Information including reference designs is available from the Power Integrations website at www.power.com/linkswitch-tn2.

About Power Integrations

Power Integrations, Inc. is a leading innovator in semiconductor technologies for high-voltage power conversion. The company’s products are key building blocks in the clean-power ecosystem, enabling the generation of renewable energy as well as the efficient transmission and consumption of power in applications ranging from milliwatts to megawatts. For more information please visit www.power.com.

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