

NEWS RELEASE

Power Integrations Introduces the InnoSwitch3-PD Family of Flyback Switcher ICs with Built-In USB PD Controller

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A fully integrated charger solution combines USB PD, PPS, PowiGaN and FluxLink to maximize efficiency and slash component count in adapters and chargers

SAN JOSE, Calif.--(BUSINESS WIRE)-- **Power Integrations** (Nasdaq: **POWI**), the leader in high-voltage integrated circuits for energy-efficient power conversion, today announced the **InnoSwitch™3-PD** family of ICs, the industry's most highly integrated solution for USB Type-C, USB Power Delivery (PD), and USB Programmable Power Supply (PPS) adapters. This compact InSOP™-24D-packaged IC includes a USB-C and PD controller, a high-voltage PowiGaN™ switch, a multi-mode quasi-resonant flyback controller, secondary-side sensing, FluxLink™ isolated digital feedback and a synchronous-rectification driver.

Power Integrations introduces the InnoSwitch3-PD family of flyback switcher ICs with a fully integrated solution combining USB PD, PPS, PowiGaN and FluxLink to maximize efficiency and slash component count in adapters and chargers. (Photo: Business Wire)

Aditya Kulkarni, senior product marketing engineer at Power Integrations said: "**InnoSwitch3-PD** ICs target designers seeking

the ultimate in charger power density. This requires the highest level of integration and maximum efficiency to limit self-heating. Our latest addition to the InnoSwitch3 family dramatically simplifies the development and manufacturing of compact, energy-efficient USB PD power supplies for smartphones, tablets, notebooks, and other devices that benefit from fast charging. InnoSwitch3-PD ICs reduce the BOM count to half that of conventional designs, reducing design time and simplifying high-volume manufacture for slim, ultra-compact OEM and aftermarket chargers."

Featuring no-load power consumption as low as 14 mW, power supply designs using InnoSwitch3-PD ICs meet all global energy-efficiency regulations. The high efficiency of these devices ensures low heat dissipation, eliminating the need for bulky heatsinks. Power Integrations' FluxLink high-speed communications feedback link ensures fast, accurate secondary-side regulation. InnoSwitch3-PD ICs are also fully protected, with input voltage monitoring, accurate brown-in/brown-out and overvoltage protection, and output over- and under-voltage fault detection with independently configurable fault responses.

Note to editors: View a short video on the InnoSwitch3-PD [here](#).

Availability & Resources

A new design report, **RDR-838**, describes a 60 W USB PD 3.0 Power Supply with 3.3 V – 21 V PPS output using the **InnoSwitch3-PD** PowiGaN-powered INN3879C-H801. The new InnoSwitch3-PD ICs are priced from \$1.30 per unit in 10,000-unit quantities. For further information, contact a Power Integrations sales representative or one of the company's authorized worldwide distributors: **Digi-Key**, **Farnell**, **Mouser** and **RS Components**.

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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