

NEWS RELEASE

Power Integrations Launches InnoMux-2, a New Switcher IC Family With Multiple, Independently Regulated Outputs

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New GaN-based ICs combine AC-DC and DC-DC stages into a single power converter; cut power system losses by up to 50 percent

LONG BEACH, Calif.--(BUSINESS WIRE)-- **APEC 2024 – Power Integrations** (NASDAQ: **POWI**), the leader in high-voltage integrated circuits for energy-efficient power conversion, today announced the **InnoMux™-2** family of single-stage, independently regulated multi-output offline power-supply ICs. InnoMux-2 ICs consolidate AC-DC and downstream DC-DC conversion stages into a single chip, providing up to three independently regulated outputs for use in white goods, industrial systems, displays and other applications requiring multiple voltages. Elimination of separate DC-DC stages slashes component count, reduces PCB footprint and increases efficiency by as much as 10 percentage points compared to traditional two-stage architectures. Efficiency is aided by the ICs' 750 V PowiGaN™ gallium-nitride transistors, zero-voltage switching (without an active clamp) and synchronous rectification.

Power Integrations launches InnoMux-2, a new GaN-based switcher IC family with multiple, independently regulated outputs (Graphic: Business Wire)

Roland Saint-Pierre, vice president of product development at Power

Integrations said: "Most modern electronic systems rely on multiple internal voltages to operate various functions such as computing, communication and actuation function – typically heat, light, sound or motion of some kind. But losses in each conversion stage are compounded, degrading system performance and generating heat. The InnoMux-2 IC overcomes this challenge by providing up to three independently regulated voltage outputs or two voltage output and a constant current output from a single stage, achieving a compact and efficient power sub-system with low component count."

InnoMux-2 ICs deliver up to 90 watts of output power with accurate regulation of better than ± 3 percent across the full input line, load, temperature and differential current step conditions. Total power system efficiency (AC to regulated low-voltage DC segment) is above 90 percent; the advanced InnoMux-2 controller also manages light-load power delivery, avoiding the need for pre-load resistors and reducing no-load consumption to less than 30 mW. This conserves power for necessary functionality in applications subject to the 300 mW allowance for standby usage under the European **energy-using product (EuP) regulations**.

InnoMux-2 devices leverage Power Integrations' thermally efficient InSOP™24 and InSOP™28 packages with PCB cooling, so no heatsink is required. Device options include dual- and three-output constant voltage (CV); optionally, one output may be dedicated to constant current (CC) drive, suitable for powering LEDs in displays or for high-speed charging of an internal battery.

Typical applications include TVs, monitors, appliances, networking, home and building automation, LED emergency lighting and industrial power supplies.

Availability & Resources

Pricing for InnoMux-2 IMX2174F devices starts at \$1.11 for 50,000-unit quantities. Data sheets, three reference design reports and an introduction video are immediately available for download or viewing:

- **InnoMux2-EP family data sheet**
- **InnoMux2-BL family data sheet**
- **IML204DG data sheet** (four-channel LED backlight controller IC to partner with InnoMux2-BL for computer monitors)
- **DER-714:** a 52 W TV design with one CV and one CC output;
- **DER-715:** a 23 W monitor design with one CV and four CC outputs; and
- **DER-716:** a 62 W industrial and appliance design with three CV outputs.
- **InnoMux-2 introduction video**

For further information, contact a Power Integrations sales representative, or visit **power.com**.

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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