



## Market News

### **Infineon introduces a five output digital voltage regulator in a QFN package**

Munich, Germany – 30 October 2017 – Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) launches the IRPS5401, a five output Point of Load (POL) digital voltage regulator for FPGAs, ASICs, and other multi-rail power systems. The IRPS5401 has been developed as a fully integrated PMIC solution that replaces multiple regulators with a single device in a compact 7 mm x 7 mm 56 pin QFN package. It is a perfect fit for current and future applications in high density ASIC and FPGA. Additional applications comprise CPU multi-rail systems, embedded computing systems, and communication and storage systems.

The IRPS5401 forms a key part of the UltraZed System on a Module (SOM) from Avnet. The compact package size combined with PMBus communication for real-time monitoring and control provides the optimized power management solution that the UltraZed requires. “With the integration level and excellent power density of the IRPS5401, we were able to implement two IRPS5401 devices onto our full-featured UltraZed SOM,” said Chris Ammann, Global Technical Marketing Engineer for Power at Avnet. This gives us 10 rails that can be fully monitored and controlled with software, while maintaining a business card size footprint for the SOM.”

The IRPS5401 is designed for single rail operation ranging from 5 V to 12 V, where most PMICs are only 5 V. It has one 500 mA LDO output, and four configurable switching regulator outputs, two at 2 A, and two at 4 A. The outputs of the IRPS5401 can be used to provide the typical rails required for core, memory, and I/O voltages. The voltage output range is between 0.5 V and 3.6 V for regulators A to D, and between 0.25 V and 5.1 V for the LDO.

Switching regulator A can output up to 50 A if combined with an external Power Stage. Switching regulators C and D can be combined to deliver 8 A in a low ripple, dual-phase configuration. All outputs are well within the power requirements of most FPGAs and ASICs ranging between 10 W to 50 W, including integrated voltage sequencing. Industry standard PMBus commands provide an easy-to-use interface

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for status and telemetry, and PMBus can be used to configure the output voltages in 5 mV steps.

### **Availability**

The IRPS5401 is available now. More information is available at [www.infineon.com/irps5401](http://www.infineon.com/irps5401), [www.infineon.com/xilinx](http://www.infineon.com/xilinx), and [www.infineon.com/altera](http://www.infineon.com/altera).



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