Exar Expands PowerXR (tm) Digital Power Product Portfolio

New 3- and 4-Channel Programmable Power ICs Provide Price-Performance Optimized Solutions

Palm Springs, California, Applied Power Electronics Conference and Exposition (APEC) -- February 22, 2010 - Exar Corporation (Nasdaq: EXAR) added two new products to its PowerXR family of programmable power system ICs. The XRP7713 and XRP7714 are highly integrated programmable power solutions optimized for applications using up to 5Amps per channel. The XRP7714 offers pin and function compatibility with the PowerXR XRP7704, XRP7708, and XRP7740. The XRP7713 provides the same performance as the XRP7714 for a 3-channel solution in a cost-effective 32-pin QFN package.

PowerXR ICs integrate the best of both worlds; the low cost and flexibility of digital power control as well as the robust power capabilities of high performance analog power switchers. PowerXR products reduce development time from weeks to hours enabling a significant time-to-market advantage for system design engineers. Using our Digital Power StudioTM tool, engineers can easily modify voltage, current or other parameters in seconds. Engineers can tweak parameters throughout the design cycle, qualification and into final test. If attached to an Ethernet cable, you can even change the design after it is shipped - just as simple as a firmware update.

"Early market success with the PowerXR family confirms that our technology and products clearly address customer requirements, and support continued investment in digital power solutions," said Tim Maloney, senior director Digital Power Marketing. "We continue to leverage the PowerXR platform to broaden our product line and provide customers with innovative products for their latest applications. With the introduction of our new XRP7713 and the XRP7714, the PowerXR family now covers a wider range of applications from low-power consumer to high-power telecom, datacom."

Key Product Features

The XRP7713 and XRP7714 offer a wide input voltage range (4.75V to 25V), and output range (0.9V to 5.0V), with a built-in Low-Drop Out regulator (LDO) for standby power, power sequencing capability, and integrated gate drivers. These power system ICs contain multiple Digital Pulse Width Modulator (DPWM) ICs with an effective 12-bit resolution. The ICs contain an integrated LDO regulator that provides a fifth voltage supply, which can also be employed as a standby-voltage source and is fully configurable via an I²C interface for monitoring, control and management of DC/DC power conversion. The devices contain integrated gate drivers for the high-current outputs and up to six General Purpose Input/Output (GPIO) pins. Exar's Digital Power Studio enables designers to intelligently configure the power supply's voltage setting and current thresholds, fault monitoring and response, soft start and active shutdown timing, and channel sequencing, phase shift management, and loop response, amongst other features. The ICs use a digital PID (proportional, integral, differential) control algorithm that performs full-digital loop control at switching frequencies to 1.5 MHz.

About PowerXR

Exar's PowerXR products combine digital power management/control technology with high-performance analog circuitry to create a completely new ProgrammablePower^{TM} technology.

Also known as, FPPSTM (Field Programmable Power Supply) technology, PowerXR offers a fundamentally new approach to power, enabling system architects to replace cumbersome discrete power solutions in a wide cross-section of end products using embedded processors, ASICs, or SOCs. PowerXR has demonstrated that it significantly reduces time-to-market, lowers design risk, and increases performance - all at the cost of traditional analog solutions.

PowerXR leverages process technology and innovative IP to deliver a (re)configurable power system with high-current voltage rails, an LDO, gate drivers, managers, temperature sensors, supervisor circuitry - in total replacing up to 13 discrete analog ICs.

Additional Information, Pricing, and Availability

Samples of the XRP7713, XRP7714 are available now. Offered in a RoHS compliant, "green"/halogen free 32-pin and 40-pin QFN package respectively operating within the -40ºC to +85ºC temperature range. The XRP7713 is priced at $2.90 in 1K piece quantities and the XRP7714 is priced at $3.40 in 1K piece quantities. Additional information on Exar's Digital Power solutions can be found at www.exar.com/digitalpower or by e-mailing digitalpower@exar.com.

About Exar

Exar Corporation delivers highly differentiated silicon, software and subsystem solutions for industrial, datacom and storage applications. For nearly 40 years, Exar's comprehensive knowledge of end-user markets along with the underlying analog, mixed signal and digital technology has enabled innovative solutions that meet the needs of the evolving connected world. Exar's product portfolio includes power management and interface components, communications products, storage optimization solutions, network security and applied service processors. Exar has locations

worldwide providing real-time customer support to drive rapid product development. For more information about Exar, visit: http://www.exar.com.

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