

July 22, 2014



Exar's 40V COT Controller Delivers 0.008%/V Line Regulation

The XR75100 Simplifies Point-of-Load Supply Designs in Industrial Applications

FREMONT, Calif., July 22, 2014 /PRNewswire/ -- Exar Corporation (NYSE: EXAR), a leading supplier of high-performance integrated circuits and system solutions, today introduced the XR75100, a new 40V capable switching controller in its line of DC-DC power conversion products. The XR75100 Synchronous Step-Down Controller supports point-of-load (POL) supplies from industrial 24VDC and 24VAC rectified sources. The patented emulated current mode Constant On-Time (COT) control scheme provides the fast transient response of conventional COT controllers without any of the compromises. This device delivers core voltage rails for ASICs, FPGAs, DSPs and other various processors in Medical, Automotive, Instrumentation and a wide range of other industrial markets.

The XR75100 with exceptional 0.008%/V line regulation across the entire input voltage range and 1% output accuracy over full temperature range provides increased headroom to engineers for easier design implementations. Exar's COT control loop enables operation with ceramic output capacitors, eliminating loop compensation and reducing overall component count for ease of system design. The XR75100 is specified with a wide input voltage range of 5V to 40V and delivers an adjustable output voltage from 0.6V to 30V. Additionally, the device offers a host of supervisory and protection features for proper sequencing, safe operation under abnormal operating conditions and light load operation.

"The XR75100 has been developed in response to our broad spectrum of industrial customers who need to power modern high power FPGAs and DSPs from traditional sources such as 24V AC and DC. The 40V operating range allows for a wide range of input fluctuations," said James Loughheed, vice president, power management products, Exar. "Hardware engineers responsible for board level power systems will appreciate Exar's patented COT control scheme, which makes the XR75100 easy to design with and keeps the component count low."

Product Availability and Pricing

The XR75100 is available now in a RoHS compliant, green/halogen free space-saving 16-pin 3x3 QFN package and is priced from \$1.59 in 1000 piece quantities.

Additional Information

Additional information on the XR75100 is also available at

<http://www.exar.com/XR75100>

Additional information on Exar's DC-DC power conversion products is also available at <http://www.exar.com/power-management/power-conversion>

About Exar

Exar Corporation designs, develops and markets high-performance integrated circuits and system solutions for the Communications, High-End Consumer, Industrial & Embedded Systems, and Networking & Storage markets. Exar's broad product portfolio includes analog, display, LED lighting, mixed-signal, power management, connectivity, data management, and video processing solutions. Exar has locations worldwide providing real-time customer support. For more information about Exar, visit <http://www.exar.com>.

SOURCE Exar Corporation