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Exar Introduces Industry's Smallest 20A Power Module

Driving density through efficiency and thermal performance

FREMONT, Calif., June 4, 2015 /PRNewswire/ -- Exar Corporation (NYSE: EXAR), a leading supplier of high-performance integrated circuits and system solutions, introduces the [XR79120](#) – a 20A single output, synchronous step-down power module in a compact, market leading 12mm x 14mm x 4mm footprint. Although small, the XR79120 still offers greater than 93% peak efficiency and leverages Exar's patented advanced constant on-time (COT) control architecture across a 4.5V to 22V input voltage range.

The XR79120 provides an easy to use, fully integrated power converter integrating MOSFETs, inductors, and internal input and output capacitors. QFN-based package technology provides superior thermal performance, eases electrical debugging and improves manufacturability with higher assembly yield and the ability to visually inspect solder joints. At 50°C with no airflow, no thermal de-ratings are required for output voltages of 1.8V and below.

"Delivering 20A from a 12V supply in a 12mm x 14mm x 4mm module sets this device apart in the market," said Jon Cronk, Exar's marketing director, power management products. "By optimizing efficiency, size and thermal performance, the XR79120 boasts the best power density available since the big bang."

The XR79120 will be available in a RoHS compliant, green/halogen free, space-saving 74-pin 12mm x 14mm x 4mm QFN package. The XR79120 is priced at \$13.95 in 1,000-piece quantities. For more information, visit www.exar.com/xr79120

Additional information on Exar's power modules is also available online at www.exar.com/power-management/power-modules

Summary of features:

- Fully integrated power supply
- 12mm x 14mm x 4mm QFN package
- >93% peak efficiency
- 4.5V to 22V V_{IN} operating range
- Patented emulated current mode COT control
- Exceptional line/load regulation

About Exar

Exar Corporation designs, develops and markets high performance integrated circuits and system solutions for the industrial & embedded systems communications, high-end consumer and infrastructure 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, visit www.exar.com.

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