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## Microsemi Achieves QML Class V Qualification for Space FPGAs

### Newly Qualified Radiation-tolerant RTAX-S/SL FPGAs Available Now

ALISO VIEJO, Calif., May 14, 2012 /PRNewswire/-- **Microsemi Corporation** (Nasdaq: MSCC), a leading provider of semiconductor solutions differentiated by power, security, reliability and performance, today announced that its radiation-tolerant RTAX-S/SL field programmable gate arrays (FPGAs) have been qualified by the U.S. Defense Logistics Agency (DLA) as Qualified Manufacturers List (QML) Class V in accordance with military performance standard MIL-PRF-38535 space-level qualification requirements. QML Class V is the highest standard in the industry for space integrated circuits. Microsemi RTAX-S/SL FPGAs provide designers of space-flight systems with several advantages including high performance, low power, single-chip form factor and live-at-power-up operation.

(Logo: <http://photos.prnewswire.com/prnh/20110909/MM66070LOGO>)

"Microsemi has been providing high-reliability solutions to the aerospace market for more than five decades, and we delivered our first radiation-tolerant RTAX-S FPGA in 2004," said Esam Elashmawi, vice president and general manager at Microsemi. "Earning QML Class V qualification with our RTAX-S/SL FPGAs solutions marks yet another important milestone in our history of innovation and this achievement is indicative of our ongoing commitment to quality."

The QML Class V qualification of the RTAX-S/SL FPGA product family provides customers with an added level of assurance that Microsemi FPGAs are of the highest quality and reliability. Microsemi's QML Class V parts include a 2,000 hours life test on each wafer lot and a destructive physical analysis (DPA) on each assembly lot. This removes the need for customers to perform these tests, providing scheduling and cost benefits.

#### About Microsemi's RTAX-S/SL FPGAs

Microsemi's RTAX-S/SL radiation-tolerant FPGAs are specifically designed for space applications using highly reliable and nonvolatile antifuse technology. They are offered in densities of up to 4 million equivalent system gates and 840 user I/Os, providing designers with a flexible programmable platform and the ability to efficiently accommodate last-minute design changes.

The RTAX-S/SL family has hot-swap and cold-sparing capabilities, which enable a device to be turned off to minimize power consumption during long space missions and activated only when functionality is required. For space applications that have a need for lower standby current, Microsemi RTAX-SL FPGAs have less than half the standby current of the standard product at worst-case conditions. Additional features include:

- Up to 540 kbits of embedded memory with optional EDAC protection
- Total dose: 300 kRads (functional) and 200 kRads (parametric)
- Single event upset (SEU) immunity
- Multiple packing options (CQFP and CCGA/LGA)
- Screening: E-Flow (Microsemi Extended Flow), B-Flow (Mil-STD-883B), and V-Flow (MIL-PRF-38535 QML Class V)

#### Upcoming Microsemi Space Forums

Microsemi's invitation-only, one-day Space Forums address key industry challenges and include technical presentations, new product updates, technology roadmap information and statistical reliability data. The current schedule is as follows:

- Dec. 4, 2012 — Los Angeles
- Spring 2013 — North America (TBD)
- May 2013 — Noordwijk, Netherlands
- May 2013 — Moscow
- July 2013 — Bangalore and Ahmedabad, India
- Oct. 2013 — Tokyo

#### Availability

RTAX-S/ SL QML Class V devices are available now. Please contact your local Microsemi sales representative for more information or visit [www.microsemi.com/soc/products/milaero/rtaxs](http://www.microsemi.com/soc/products/milaero/rtaxs). Customers can source Microsemi's highest quality and reliability FPGAs by referencing only the DLA Standard Military Drawing (SMD) part numbers, which can be found at [www.dscc.dla.mil/Programs/Smcr/PnSearchResults.aspx?field=Source&operation=Contains&value=ACTEL](http://www.dscc.dla.mil/Programs/Smcr/PnSearchResults.aspx?field=Source&operation=Contains&value=ACTEL).

## **About Microsemi**

Microsemi Corporation (Nasdaq: MSCC) offers a comprehensive portfolio of semiconductor and system solutions for communications, defense and security, aerospace, as well as industrial and medical markets. Products include mixed-signal integrated circuits, SoCs and ASICs; programmable logic solutions; power management products; timing and voice processing devices; RF solutions; discrete components; and Power-over-Ethernet ICs and midspans. Microsemi is headquartered in Aliso Viejo, Calif., and has approximately 3,000 employees globally. Learn more at [www.microsemi.com](http://www.microsemi.com).

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"Safe Harbor" Statement under the Private Securities Litigation Reform Act of 1995: Any statements set forth in this news release that are not entirely historical and factual in nature, including without limitation statements related to its radiation-tolerant RTAX-S/SL field programmable gate arrays being qualified by the U.S. Defense Logistics Agency as Qualified Manufacturers List Class V in accordance with military performance standard MIL-PRF-38535 space-level qualification requirements, and its potential effects on future business, are forward-looking statements. These forward-looking statements are based on our current expectations and are inherently subject to risks and uncertainties that could cause actual results to differ materially from those expressed in the forward-looking statements. The potential risks and uncertainties include, but are not limited to, such factors as rapidly changing technology and product obsolescence, potential cost increases, variations in customer order preferences, weakness or competitive pricing environment of the marketplace, uncertain demand for and acceptance of the company's products, adverse circumstances in any of our end markets, results of in-process or planned development or marketing and promotional campaigns, difficulties foreseeing future demand, potential non-realization of expected orders or non-realization of backlog, product returns, product liability, and other potential unexpected business and economic conditions or adverse changes in current or expected industry conditions, difficulties and costs of protecting patents and other proprietary rights, inventory obsolescence and difficulties regarding customer qualification of products. In addition to these factors and any other factors mentioned elsewhere in this news release, the reader should refer as well to the factors, uncertainties or risks identified in the company's most recent Form 10-K and all subsequent Form 10-Q reports filed by Microsemi with the SEC. Additional risk factors may be identified from time to time in Microsemi's future filings. The forward-looking statements included in this release speak only as of the date hereof, and Microsemi does not undertake any obligation to update these forward-looking statements to reflect subsequent events or circumstances.

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