

## News Release

25 November 2014

### **COBHAM ANNOUNCES QML Q/Q+ QUALIFICATION OF THEIR MRAMs with IP FROM EVERSPIN TECHNOLOGIES, INC.**

COLORADO SPRINGS, COLORADO – Cobham Semiconductor Solutions (formerly Aeroflex) announces QML Q/Q+ certification of their non-volatile products using Magnetoresistive Random-Access Memory (MRAM) intellectual property from Everspin Technologies, Inc. The MRAM-based product offering includes a 64Mbit device, UT8MR8M8, offered in a 40-lead quad flatpack with prototypes available now, and a 16Mbit device, UT8MR2M8, available in a 40-lead flatpack and in production.

“Using an IP license from Everspin, Cobham Semiconductor Solutions has taken commercial MRAM technology and enhanced the IP for specialized aerospace and defense applications,” said Anthony Jordan, Cobham Semiconductor Solutions Vice-President Product Marketing and Applications Engineering. “Customers needed dense, low power, qualified non-volatile memory solutions with guaranteed total ionizing dose and single event hardness. Cobham was able to satisfy these requirements using commercial IP and proprietary design techniques to access new markets. We plan to continue leveraging Everspin IP in future product development.”

MRAM technology provides a combination of fast access time, non-volatility, data retention and endurance. MRAM technology operates as an SRAM with non-volatile attributes. Aeroflex’s HiRel MRAM solutions are used with microprocessors, DSP engines, storage systems, instruments, and reconfigurable FPGAs.

The 3V MRAMs have guaranteed operation from -40°C to +105°C, 100 krad(Si) and are SEL immune to  $>100 \text{ MeV-cm}^2$ . As a replacement for 3.3V SRAMs, the MRAMs are 8-bit parallel I/O solutions with data retention after each write of 20 years and near infinite read/write endurance. They are ideal for working memory applications that require high rates of data overwrites.

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“Cobham Semiconductor Solutions, formerly Aeroflex Microelectronics Solutions – HiRel, is committed as a long-term supplier of memory products for harsh environments. We now offer over 30 products in our Non-Volatile and Volatile Memory Family.”

The radiation-hardened UT8MR2M8 (SMD5962-12227) and the UT8MR8M8 (SMD 5962-13207) are QML Q/Q+ qualified and available to Standard Microcircuit Drawings. Please call for pricing.

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For copies of the Memory Family datasheets, call 1-800-645-8862, email [info-AMS@aeroflex.com](mailto:info-AMS@aeroflex.com) or visit [www.aeroflex.com/memories](http://www.aeroflex.com/memories).

### **About Cobham**

Cobham protects lives and livelihoods with its differentiated technology and know-how, operating with a deep insight into customer needs and agility. The Group offers an innovative range of technologies and services to solve challenging problems in harsh environments across commercial, defence and security markets, from deep space to the depths of the ocean, specialising in meeting the growing demand for data, connectivity and bandwidth.

Employing more than 12,000 people on five continents, the Group has customers and partners in over 100 countries, with market leading positions in: audio, video and data communications, including satellite communications; defence electronics; air-to-air refuelling; aviation services; life support and mission equipment.

### **ABOUT Cobham Semiconductor Solutions**

Cobham’s Semiconductor Solutions Colorado Springs site is a supplier of semicustom and standard VLSI circuits and custom circuit card assemblies. They have a Qualified Manufacturer List (QML) certification for Class Q, Class T and Class V.

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