

## News Release

July 27, 2015

### **Cobham Announces QML V Qualification of the 90nm RadHard-by-Design Library**

Colorado Springs, Colo. – Cobham today announced QML V qualification of their 90nm RadHard-by-Design (UT90nHBD) ASIC technology. In 2011, the Defense Threat Reduction Agency (DTRA) awarded Cobham Semiconductor Solutions (formerly Aeroflex) a contract to productize and qualify the 90nHBD digital library, which has been targeted toward digital Application Specific Integrated Circuits (ASICs). Cobham received QML Q qualification in September 2014, offering ASICs to the Military/Aerospace/Intelligence communities, with end-to-end Trusted Supply Chain pedigree.

“Cobham is the first to offer a fully-qualified QML Q and V, fully Trusted 90nHBD solution to the Military/Aerospace/Intelligence communities,” said Paul Armijo, Sr. Director, Government Programs, Cobham Semiconductor Solutions. “Customers are designing our ASIC family into their systems to realize significant benefits in dynamic power, cell density, and radiation-hardened performance (TID, SEE, Dose Rate). This translates to reduced size, weight, lower overall power, and higher processing efficiency for future systems deploying this technology. The qualification is the first to be performed by Cobham compliant to MIL-PRF-38535 Revision K, which required extended life testing at maximum operating frequency and junction temperature. QML V gives high confidence that future ASICs will be reliable under worst case use conditions at operating frequencies above 1.2GHz.”

QML Q and V qualification vehicles included wirebond, flip-chip and Quad-Core LEON 4FT (Fault-Tolerant) processor test circuits; the LEON 4FT processor provides a path to enhanced high speed, low power processing capabilities. Punctuating this effort is Cobham’s current CAT1A Trusted accreditation in Design, Test, Assembly, and multi-project wafer (MPW) Aggregation & Broker services, providing customers with secure and assured access across our entire supply chain.

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Customers will also benefit from the UT1752FC package, Cobham's first Class Y standard package offering to be introduced in conjunction with their RadHard-by-Design (RHBD) 90nm ASIC technology node.

The UT90nHBD ASIC library offers radiation hardened capability from 100 krad to 1Mrad (Si) total ionizing dose (TID). Storage elements and memory compilers offer Single Event Upset (SEU)  $<5.0E-9$  errors/bit-day without error correction, single event latchup  $>100$  MeV-cm<sup>2</sup>/mg@ 125°C, and dose rate upset at  $>1.0E9$  (Si)/sec. Cobham's UT90nHBD Customer Design Toolkit is available today, optimized for speed, option-based low power operation, and enhanced to meet radiation targets, and offered today in a QML V flow.

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Please visit [www.aeroflex.com/RadHardASIC](http://www.aeroflex.com/RadHardASIC) to review product datasheets.

### **Cobham Semiconductor Solutions**

**Enhancing the performance of your products with semiconductor solutions you can depend on.**

We are a global supplier of Standard HiRel ICs including memory,  $\mu$ processor, interconnect and power and ASICs for space, commercial, medical and industrial markets, along with Electronic Manufacturing Services (Circuit Card Assembly, Radiation Testing, Component Upscreening and Packaging). Our customers benefit from our complete design, manufacture and support capabilities, as well as the comprehensive inventory they depend on to enhance the quality and integrity of their products.

### **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.

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