December 10, 2018

Cobham Announces QML Q/Q+ Qualification of their
RadTolerant Microcontroller

Colorado Springs, Colorado - Cobham Advanced Electronic Solutions (Cobham) has received Defense Logistics Agency (DLA) Qualified Manufacturer's List (QML) Q and Q+ qualification for the UT32M0R500 Arm® Cortex®-M0+ 32-bit processor. QML Q/Q+ qualification assure customers the UT32M0R500 microcontroller has been through most rigorous DLA tests required.

The UT32M0R500 microcontroller is the only product on the market that integrates two independent CAN 2.0B controllers, mission read/write flash memory and system on a chip functionality. Cobham introduced their UTCANxxx Transceivers in 2015 which is based on the proven, highly reliable controller area network (CAN) protocol, designed for harsh environments, that has been used in the automotive and industrial applications for over 30 years. Cobham's full-featured, highly integrated solution reduces the external component cost and complexity. The UT32M0R500 was designed with the industry standard ARM technology and comes with powerful development and debug tools.

"In today's satellite market, the architecture is built around expensive FPGAs, ASICs and discrete components for intra-satellite communications, control and telemetry," said Kevin Jackson, General Manager, Cobham Semiconductor and Space Solutions. "This is driving the market for lower cost and integrated solutions that can be distributed throughout the satellite. The UT32M0R500 is a small foot print, 14.5 x 14.5mm size, RadTolerant, multi-purpose microcontroller designed for ease of implementation. The ARM process supports power development and debug tools, enables faster time to flight and can be quickly customized for customer specific applications."

The CAN based communication system is enabling engineers to replace older, more complex wiring communication architectures with the simpler two wire bus network in space," continued Jackson. "Cobham's CAN family of transceivers and ARM based

microcontroller provides competitive leeway to support this architecture for current and future designs."

Cobham's UT32M0R500 is 50 krad(Si) total dose with latch up of LET $\leq$ 80 Mev-cm^2/mg. The UT32M0R500 is available in a 143-pin, 1mm pitch CBGA, CLGA or CCGA ceramic hermetic package in a small footprint of 14.5x14.5mm. Prototypes and production parts are available now with Standard Microcircuit Drawing (SMD) number 5962-17212, QML-Q and Q+.

For copies of the Microcontroller datasheet, call 1-800-645-8862, email info-AMS@cobham.com or visit www.Cobham.com/HiRel.

About Cobham Advanced Electronic Solutions

We provide critical solutions for communication on land, at sea, and in the air and space, by moving data through off-the-shelf and customized products and subsystems including RF, microwave, and high reliability microelectronics, antenna apertures and motion control solutions.

Cobham Advanced Electronic Solutions supplies defense, aerospace, security, medical, and industrial markets.

About Cobham

Cobham offers an innovative range of technologies and services to solve challenging problems in commercial, defence and security markets, from deep space to the depths of the ocean.

We employ around 10,000 people primarily in the USA, UK, Europe and Australia, and have customers and partners in over 100 countries, with market leading positions in: wireless, audio, video and data communications, including satellite communications; defence electronics; air-to-air refueling; aviation services; life support and mission equipment.

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