

CAN VERSION

Embedded PC for military application profiles

At the AUSA annual meeting and exposition 2019 in Washington DC, Kontron introduced its Cobalt with CAN and Cobalt Media Server integrated mission computers.



The company showcases the variants at the AUSA annual meeting 2019 at booth 2942 (Source: Kontron)

Kontron's next-generation Cobalt product family delivers application-specific I/O ideally suited to established military application profiles. The new I/O options are cost-effective, modular solutions that streamline integration of situational awareness, removable storage and processor/networking switch capabilities.

Designed as a mission-ready platform for a range of ground vehicle-based defense applications, Cobalt with CAN provides a dual CAN interface along with an integrated L2 switch with four Gigabit Ethernet ports beyond the regular Cobalt front-panel connectivity. Cobalt Media Server introduces a larger L2 switch, providing six Gigabit Ethernet ports beyond the baseline Cobalt connectivity, making it a two-in-one platform of a mission computer and a Ethernet switch in one rugged package, ideal for both air- and ground-based vehicle applications. Both address the growing need for connectivity and design flexibility that can help defense system designers speed development and time-to-

deployment, said the company.

Both platforms are based on the company's Cobalt 901 | 400 series and enhances design flexibility by adding a four-port external/three-port internal L2 Ethernet switch and integrated CAN interface with two channels in the case of the Cobalt CAN, and by adding a larger six-port external/three-port internal L2 Ethernet switch for the Cobalt Media Server. Both are based on Cobalt's hardened COM Express Type 6 module form factor module with a specialized carrier board and integrated 6th Generation Intel Quad-Core processors (E3-1505L, 2.0 GHz).

Kontron's Cobalt platforms delivers the higher CPU (central processing unit) and graphics performance necessary to support data-intensive sensor processing applications such as electro-optical and infrared (EO/IR), advanced voice, video, EW, and the latest situational awareness applications. They also feature up to 32 GiB of ECC RAM, and have a removable solid state drive (RSSD) bay option that supports two RSSDs. This gives designers flexibility to select and configure the right amount of storage capacity as an ordering option without modifying the system.

"The Cobalt with CAN and Cobalt Media Server are important enhancements to the widely deployed Cobalt product line," said Matthias Huber, General Manager for Sales and Marketing at Kontron America. "They introduce new capabilities into the base Cobalt platform that fill important needs within the military for small, vehicle-deployed mission computing platforms."

In addition, both variant provide rugged platforms for developers and system integrators to deploy demanding mission-critical applications. These rugged IP67 fully sealed and compact systems have no Itar restrictions and offer the power-efficient computing performance to meet decreasing SWaP demands in today's military systems. Plus, the platforms offer high speed data transfer capabilities that enable faster data loading via a dedicated USB 3.0 port.

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