Module speeds the integration of dual redundant ports of MIL-STD-1553

Curtiss-Wright Controls Embedded Computing (CWCEC) has announced the availability of the XMC-603, its new rugged quad-channel MIL-STD-1553 XMC interface module. The XMC-603 mezzanine module speeds and simplifies the integration of dual redundant ports of MIL-STD-1553 into military and aerospace embedded computing systems.

“MIL-STD-1553 remains an important data bus for deployed military platforms,” said Lynn Bamford, vice president and general manager of Curtiss-Wright Controls Embedded Computing. “Delivering 1553 in an XMC format enables customers to upgrade existing systems, making use of next generation mezzanine formats that are becoming increasingly popular."

The XMC-603 is a single-width XMC module and is available in both air-cooled and conduction-cooled configurations. Designed in accordance with the IEEE 1386

and IEEE 1386.1 specifications, the module supports carrier cards with the PMC J4 mezzanine connector for backplane IO and XMC J5, or XMC mezzanine connectors Pn5 and Pn6 for backplane IO. Front panel IO is not supported. The XMC-603 is also backward pin-compatible for 1553 support to CWCEC’s PMC-601 dual port MIL-STD-1553 PMC mezzanine card.

XMC-603 Performance Features

· Up to four (4) independent dual-redundant MIL-STD-1553 interfaces

· Support for MIL-STD-1553A, MIL-STD-1553B Notice 2, and STANAG 3838

· Support for both transformer-coupled and direct-coupled interfaces

· BC, RT, MT modes independently selectable for each channel

· XMC form factor (the IEEE 1386/IEEE 1386.1)

· Backplane I/O support

· PCI Express (PCIe) Gen 1 interface

· Linux, VxWorks and Windows XP-E drivers available

Software Support

Software support for the XMC-603 includes drivers, sold separately, for VxWorks

(6.x), Linux (3.0 and 4.0) and Windows XP-E operating environments.