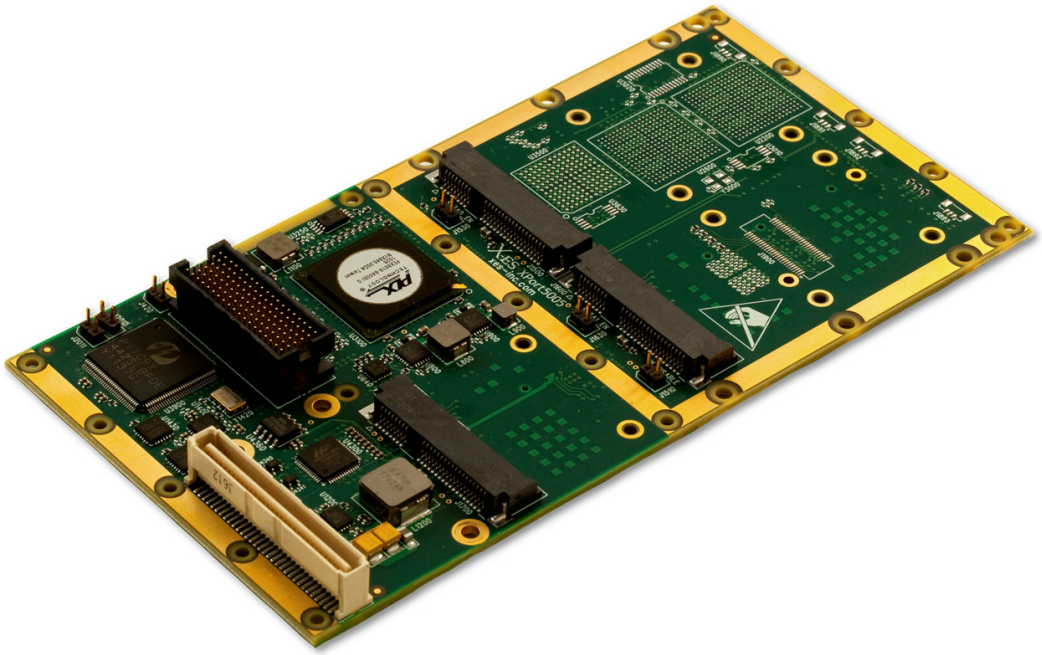
XPort5005

XMC Form Factor PCIe Mini Card Carrier Board

- Up to two dual-redundant channels of MIL-STD-1553
- Supports up to three PCIe Mini Cards
- Up to four CAN bus 2.0 channels
- Conduction- or air-cooled
- Supports two full-height PCIe Mini Card modules or two mSATA modules
- Supports a single half-height PCIe Mini Card module
- XMC PCIe interface
- Includes three mini-SIM card sockets
- PCIe Mini CEM 2.0-compliant
- Each PCIe Mini Card site supports USB or PCIe
- Integration services with third-party modules available
- Conformal coating available



XPort5005

The XPort5005 is an XMC module that can be quickly configured to support a platform's specific I/O or storage needs. The XPort5005 allows system integrators to reduce the total cost, complexity, and time to market by supporting the varying I/O and storage requirements of different platforms. It enables rapid support for MIL-STD-1553, CAN bus, ARINC 429, GPS, IEEE 1394 (FireWire), Solid-State Drives (SSD), AES-256 encryption, GPIO, WLAN (Wi-Fi), WiMax, Cellular (4G/LTE and 3G), RS-232/422/485, Bluetooth, and more.

The XPort5005 offers a flexible solution for meeting current and future platform requirements. The XPort5005 can support up to two full-height (F2/H1) PCIe Mini Card or mSATA modules and one half-height (H1) PCIe Mini Card module. The XPort5005 supports operational temperatures from -40°C to +85°C for conduction-cooled applications and -40°C to +70°C for forced-air-cooled applications. The rugged XPort5005 design also provides for robust mounting of its PCIe Mini Card modules, supporting the XPort5005's use in platforms with the most demanding of environmental requirements, including vehicle transportation, rail transportation, military, and aerospace applications.

X-ES Extreme Engineering Solutions

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P15 XMC Interface

- Up to x8 PCI Express port

P14 PMC Interface

- Up to two dual-redundant channels of MIL-STD-1553
- Up to four CAN bus 2.0 channels
- Other PCIe Mini Card I/O

Configuration Options

- Up to two dual-redundant channels of onboard MIL-STD-1553
- Two full-height PCIe Mini Card and one half-height PCIe Mini Card sites
- Up to four CAN bus 2.0 channels
- Front panel I/O breakout boards available

Software Support

Support based on board configuration

- Wind River VxWorks BSP
- Linux BSP
- Microsoft Windows drivers

Physical Characteristics

- XMC conduction- or air-cooled form factor
- Dimensions: 143.75 mm x 74 mm

Environmental Requirements

Contact factory for appropriate board configuration based on environmental requirements.

- Supported ruggedization levels (see chart below): 1, 3, 5
- Conformal coating available as an ordering option

Power Requirements

- Power will vary based on configuration and usage. Please consult factory.

Ruggedization Level	Level 1	Level 3	Level 5
Cooling Method	Standard Air-Cooled	Rugged Air-Cooled	Conduction-Cooled
Operating Temperature	0 to +55°C ambient (300 LFM)	-40 to +70°C (600 LFM)	-40 to +85°C (board rail surface)
Storage Temperature	-40 to +85°C ambient	-55 to +105°C ambient	-55 to +105°C ambient
Vibration	0.002 g²/Hz, 5 to 2000 Hz	0.04 g²/Hz (maximum), 5 to 2000 Hz	0.1 g²/Hz (maximum), 5 to 2000 Hz
Shock	20 g, 11 ms sawtooth	30 g, 11 ms sawtooth	40 g, 11 ms sawtooth
Humidity	0% to 95% non-condensing	0% to 95% non-condensing	0% to 95% non-condensing