XPort3309

Conduction- or Air-Cooled XMC Network Interface Controller with Dual 10 Gigabit Ethernet Ports

- Utilizes the Intel® E610 dual 10 Gigabit Ethernet controller
- x4 PCI Express Gen4-capable interface
- Front panel or rear I/O
- Dual 10GBASE-T Ethernet rear (P16) ports (default configuration)
- Dual 10GBASE-T Ethernet front panel (RJ-45) ports (alternate configuration)
- Conduction- or air-cooled
- Linux drivers
- Microsoft Windows drivers
- Contact factory for availability of Wind River VxWorks drivers
- IEEE 1588 support

XPort3309

The XPort3309 is a conduction- or air-cooled dual 10GBASE-T Ethernet XMC with front panel or rear I/O support. A x4 PCI Express Gen4-capable interface is routed per VITA 42.3 to the P15 connector for interfacing with the host module.

Front panel I/O for the 10GBASE-T 10 Gigabit Ethernet ports is provided with up to two RJ-45 connectors. The XPort3309 supports rear 10GBASE-T I/O through the P16 connector and utilizes X12d I/O mapping per VITA 46.9. The module utilizes automatic negotiation down to 100BASE-TX and 1000BASE-T on both 10GBASE-T ports. The XPort3309 can also support IEEE 1588.

X-ES
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"Fast, Flexible, Customer-Focused Embedded Solutions"

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Ethernet Controller

- Intel® E610 dual 10 Gigabit Ethernet controller
- IEEE 1588 support
- SR-IOV support

Rear I/O Configuration Option

- Dual 10GBASE-T Ethernet ports to P16
- X12d mapping per VITA 46.9

Front Panel I/O Configuration Option

- Dual 10GBASE-T Ethernet ports to RJ-45 connectors
- Available in air-cooled configurations only (contact factory for details)

XMC

- x4 PCI Express Gen4-capable interface per VITA 42.3
- VITA 42 or VITA 61 connector build options (contact factory for details)

Environmental Requirements

Contact factory for appropriate board configuration based on environmental requirements.

- Supported ruggedization levels (see chart below): 5
- Contact factory for air-cooled options
- Conformal coating available as an ordering option

Software Requirements

- Linux drivers
- Microsoft Windows drivers
- Contact factory for availability of Wind River VxWorks drivers

Power Requirements (Estimate)

- <10 W

Ruggedization Level	Level 5
Cooling Method	Conduction-Cooled
Operating Temperature	-40 to +85°C (board rail surface)
Storage Temperature	-55 to +105°C (maximum)
Vibration	0.1 g²/Hz (maximum), 5 to 2000 Hz
Shock	40 g, 11 ms sawtooth
Humidity	Up to 95% non-condensing