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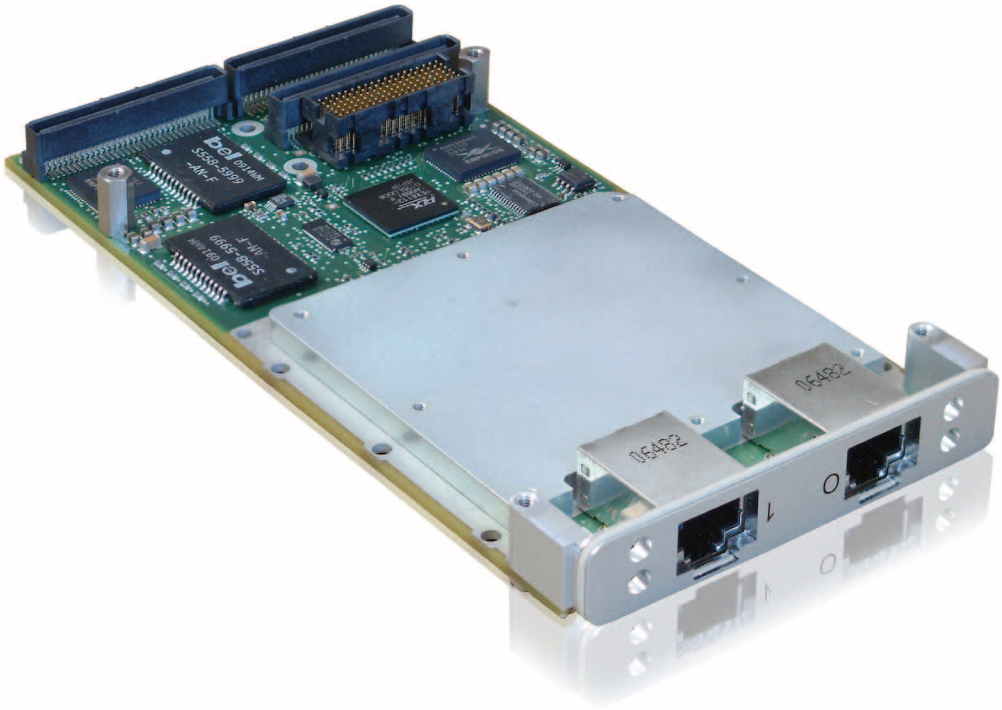
» XMC-ETH2 «

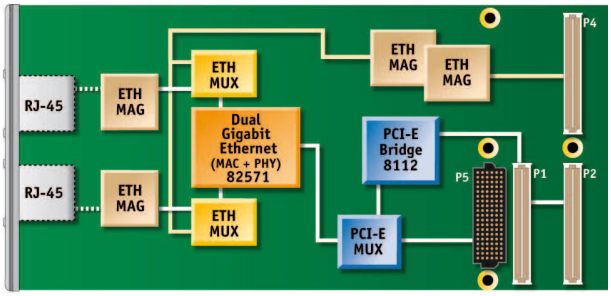


Dual Gigabit Ethernet Mezzanine Card

» General Purpose Long Life Ethernet Mezzanine
» x4 PCI Express™ XMC and PCI PMC interface to Host
» Standard Air- and Rugged Conduction-Cooled Versions
» Operating from -40° to +85°C

XMC-ETH2 Ethernet Mezzanine is designed to fit any VME, VPX or CompactPCI Single-Board Computer in the market.

XMC-ETH2 provides two gigabit copper links selectable in front or rear. When power on the P5 connector is detected, the bus interface is selected to be a PCI Express interface with four lines. Otherwise, it switches to PCI 33 MHz or 66 MHz, 32 bit on PMC connectors. The PMC PCI interface is compatible with 5V and 3.3V V(I/O) voltages.
Rugged conduction-cooled builds feature a PMC version with PCI connection and an XMC version with PCI Express.



Technical Information

Controller	Dual Channel (Intel® 82571) Gigabit Ethernet Controller Automatic or manual selection between PCI 32 bit/33MHZ (up to PCI 32 bit/66MHz) on P1/P2 and PCIe® link with 4 lanes on P5 Two build options for rugged versions: - PMC with PCI connection from PCI 32 bit/33MHz or 66MHz on P1/P2 - XMC with connection speed from one PCIe® link with 4 lanes on P5
Copper Interface	Two 10/100/1000 BaseT Ethernet links either configurable on front RJ45 (with LED signaling) or to the rear P4
Software Support	Linux
Dimensions	74mmx149mm (conforming to IEEE 1386/air-cooled and VITA 20/conduction-cooled)

Environmental Specifications

	SA - Standard Commercial	RA - Rugged Air-Cooled	RC - Rugged Conduction-Cooled
Conformal Coating	Optional	Standard	Standard
Airflow	1.5 m/s	1.6 m/s	Not Applicable
Temperature	**VITA 47-Class AC1**	**VITA 47-Class AC3**	**VITA 47-Class CC4**
Cooling Method	Convection	Convection	Conduction
Operating	0° to +55°C	-40° to +70°C	-40° to +85°C
Storage	-45° to +85°C	-45° to +100°C	-45° to +100°C
Vibration Sine (Operating)	20/500 Hz: 2g	20/2,000 Hz: 3g	20/2,000 Hz: 5g
Random	**VITA 47-Class V1**	**VITA 47-Class V2**	**VITA 47-Class V3**
Shock (Operating)	20g/11 ms Half Sine	40g/20 ms Half Sine	40g/20 ms Half Sine
Altitude (Operating)	-1,640 to 15,000 ft	-1,660 to 33,000 ft	-1,640 to 50,000 ft
Relative Humidity	90% without condensation	95% without condensation	95% without condensation

Ordering Information

Article	Part-No.	Description
XMC-ETH2-SA	XMC-ETH2-SA-000	XMC-ETH2 Air-Cooled Commercial Build, front and rear Ethernet ports, PCI PMC and PCIe XMC interface
XMC-ETH2-SA	XMC-ETH2-SA-000V	XMC-ETH2 Air-Cooled Commercial Build, front and rear Ethernet ports, PCI PMC and PCIe XMC interface, conformal coating
PMC-ETH2-SA	PMC-ETH2-SA-000	PMC-ETH2 Air-Cooled Commercial Build, front and rear Ethernet ports, PCI PMC only interface, no P5 XMC connector
PMC-ETH2-RA	PMC-ETH2-RA-000	PMC-ETH2 Rugged Air-Cooled Build, front and rear Ethernet ports, PCI PMC only interface, no P5 XMC connector
PMC-ETH2-RC	PMC-ETH2-RC-000	PMC-ETH2 Rugged Conduction-Cooled Build, rear Ethernet ports only, PMC configuration, no P5 XMC connector
XMC-ETH2-RC	XMC-ETH2-RC-000	XMC-ETH2 Rugged Conduction-Cooled Build, rear Ethernet ports only, XMC configuration, no P1/P2 PMC connector

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