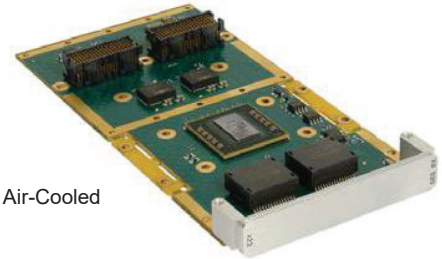


Dual Port 10 Gigabit Ethernet XMC Adapter

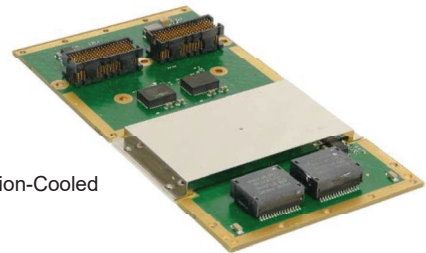
Key Features

XM 530/x22 is a dual 10GBASE-T 10 Gigabit Ethernet XMC adapter supporting rear I/O connectivity. It is available to suit both rugged and non-rugged applications with conduction and air-cooled variants over a range of operating temperatures.

- 2 x 10 Gigabit Ethernet interfaces
- Suitable for use on boards with an XMC expansion slot
- Air-cooled and conduction-cooled versions available
- Support for Linux®, Windows® and VxWorks®



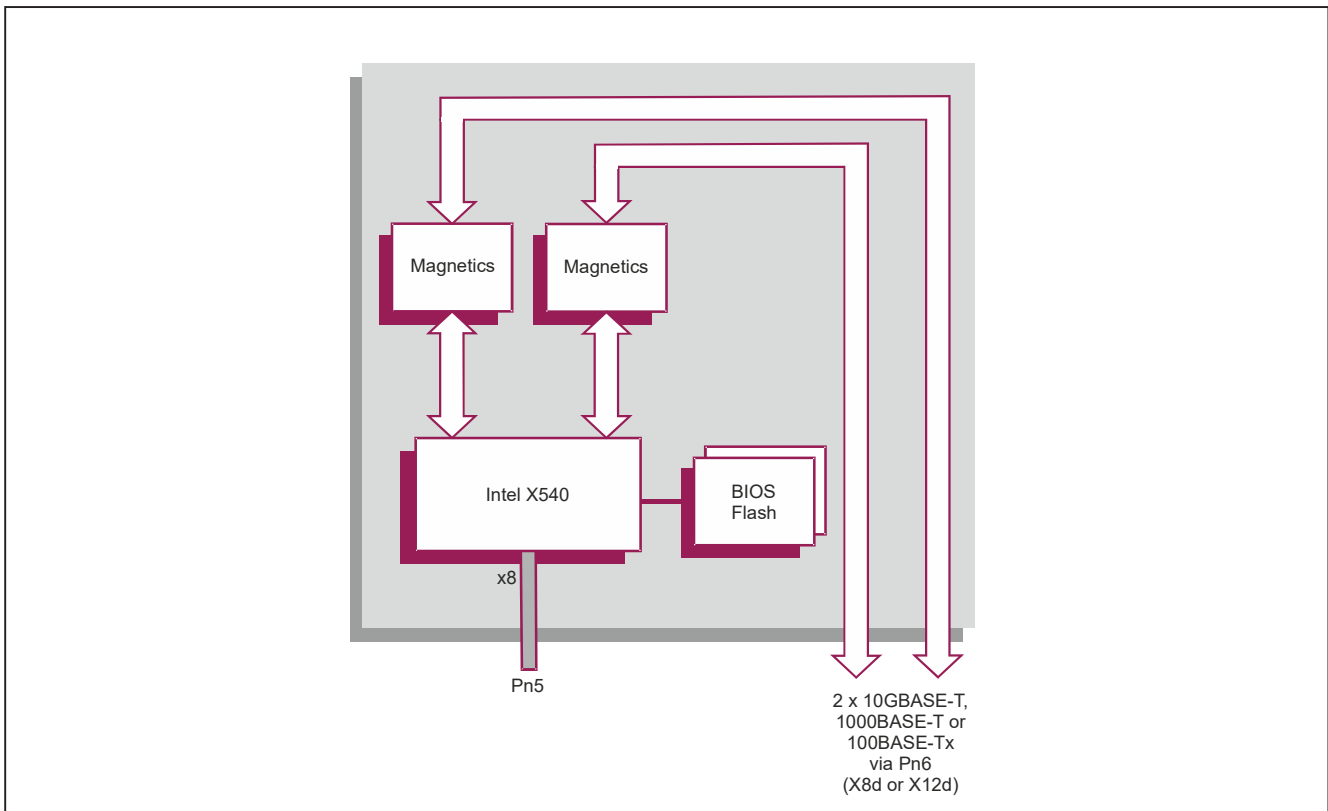
XM 530/x22 – Air-Cooled



XM 530/x22-RC – Conduction-Cooled



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Specification

Dual 10 Gigabit Ethernet Interfaces

- 2 x 10GBASE-T/1000BASE-T/100BASE-Tx interfaces
- implemented using the Intel® X540 Ethernet Controller:
 - 64-bit address support
 - IEEE 802.1Q VLAN Support
 - PXE and iSCSI option ROMs
 - Wake On LAN (WoL) support
 - Quality of Service (QoS) and I/O virtualization for up to 128 ports
 - TCP/UDP/IP checksum offload, TCP segmentation offload
 - IEEE 1588 Precision Time Protocol support
 - supports Jumbo Frames up to 15.5 KB
 - integrated 802.1AE MACSec and IPSec Engine
 - 128 Transmit and Receive Queues (per port)
- physical interfaces (PHY) implemented by the Intel X540 Ethernet Controller:
 - Link Speed Auto-negotiation
- in-board status LEDs for link/speed activity:
 - status LED signals also via XMC Pn6

XMC Interface

- complies with PCI Express® Protocol Specification 2.0 including:
 - x8 PCI Express® interface, negotiates to x4, x2 or x1
- factory build options for VITA 46.9 X8d or X12d via XMC Pn6 connector (with magnetics)

BIOS EPROM

- dual serial 1 Mbit (128K x 8) Flash devices:
 - switch selectable
- PXE BIOS Firmware and iSCSI BIOS Firmware
- in-circuit programmable

Software

- support for Linux®, Windows® and VxWorks®

Electrical Specification

- +5V only @ 3.7A or +12V only @ 1.7A (maximum with dual 10 Gigabit operating)
- voltage ±5%
- 3.3V and -12V not utilized

N: Environmental Specification

- air-cooled operating temperature (N-Series):
 - 0°C to +55°C
- non-operating temperature: -40°C to +85°C
- 5% to 95% Relative Humidity, non-condensing (operating and non-operating)

RC: Environmental Specification

- conduction-cooled operating temperature (RC-Series):
 - VITA 47 Class CC4, -40°C to +85°C
 - conduction-cooled
- non-operating temperature:
 - VITA 47 Class C4, -55°C to +105°C
- operating altitude:
 - -1,000 to 50,000 feet (-305 to 15,240 meters)
- 5% to 95% Relative Humidity, non-condensing (operating/non-operating):
 - includes conformal coating

Mechanical Specification

- single size CMC (Common Mezzanine Card) 74mm x 149mm:
 - conforming to ANSI/VITA 42.0-2008
- 10mm height stack module