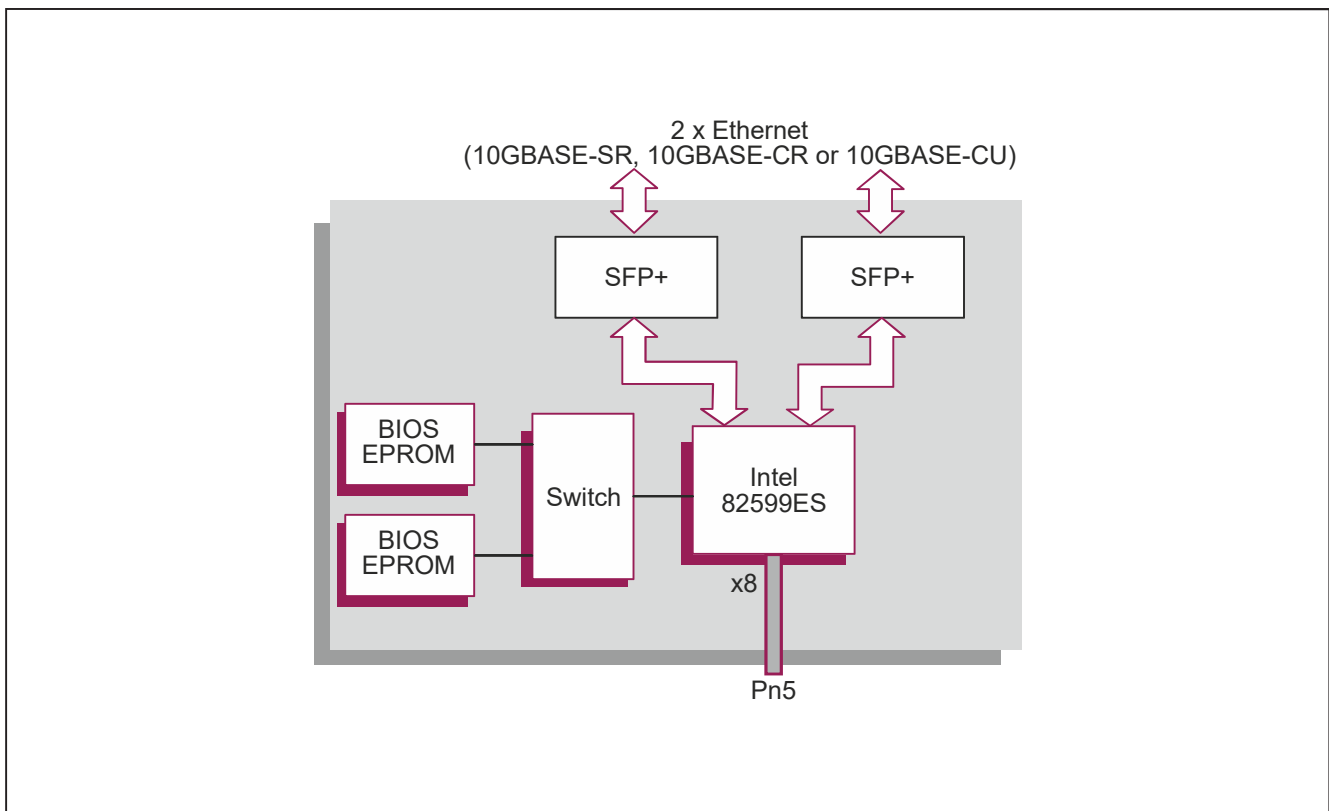
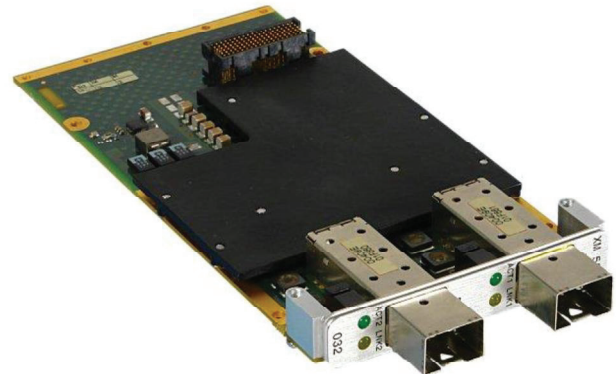


## Dual Port 10 Gigabit Ethernet XMC Adaptor

### Key Features

XM 520/032 is a high performance, dual port 10 Gigabit Ethernet adaptor with SFP+ modules offering optical or copper front panel connections. It is suitable for use on board with an XMC expansion slot and front I/O capability.

- 2 x 10 Gigabit Ethernet interfaces
- Suitable for use on boards with an XMC expansion slot
- For use in air-cooled environments
- Support for Linux® and Windows®



## Dual 10 Gigabit Ethernet Interfaces

- dual port 10 Gigabit Ethernet interfaces
- implemented using an Intel 82599ES 10 Gigabit Ethernet controller:
  - supports jumbo frames
  - 64-bit address support
  - 128 transmit queues
  - variable depth Transmit and Receive FIFO buffers
  - programmable host memory receive queue buffer cache sizes
  - Transmit and receive hardware for Descriptor Ring management
- physical interfaces (PHY) implemented by the Intel 82599ES Ethernet Controller:
  - front panel mounted SFP+ interface cages
  - SFI 10Gb/s Tx/Rx serial data differential pair to each SFP+ interface
  - supports IEEE 802.3ae, 10GBASE-SR, over LC multimode fibre
  - supports IEEE 802.3ak, 10GBASE-CR or 10GBASE-CU, over copper (twinax)
- typical connector options for SFP+ modules:
  - Ethernet via LC Duplex optical connector to 50/120mm multi-mode fibre transceivers
  - Ethernet via twin-axial copper transceivers

## XMC Interface

- complies with PCI Express Protocol Specification 2.0 including:
  - x8 PCI Express interface
  - trains down to x4, x2 or x1

## BIOS EPROM

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

## Software

- support for Linux and Windows

## Electrical Specification

- +12V supply cannot be used
- +5V only @ 1.2A (maximum with dual 10 Gigabit operating)
- voltage  $\pm 5\%$
- 3.3V and -12V not utilized

## Environmental Specification

- compatible with XMC host boards operating at:
  - 0 C to +55 C (N-Series)
  - -25 C to +70 C (E-Series)
- -40 C to +85 C (non-operating)
- 5% to 95% Relative Humidity, non-condensing

## Mechanical Specification

- single size CMC (Common Mezzanine Card) 74mm x 149mm
- 10mm height stack module