

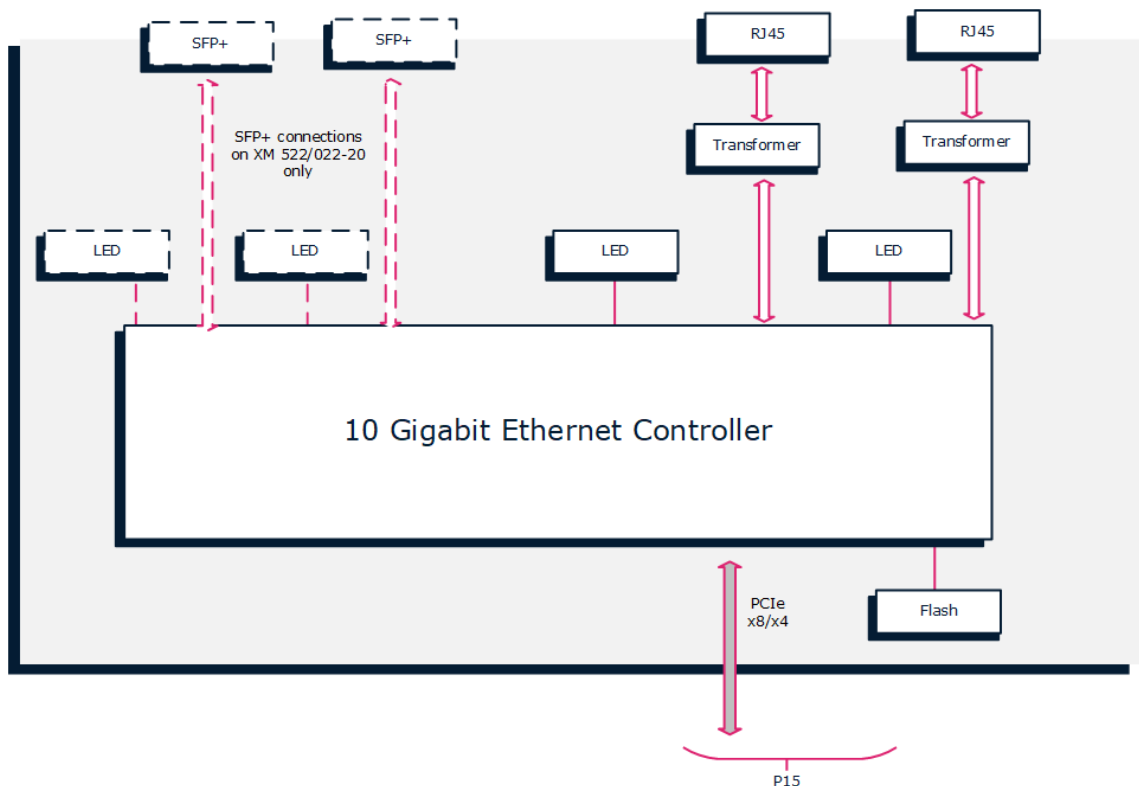
10 Gigabit Ethernet XMC Adapter

Key Features

The XM 522 is a Switched Mezzanine Card (XMC) compatible module providing a two channel 100Base-TX / 1000Base-T / 2.5GBase-T / 5GBase-T / 10GBase-T Ethernet and a two channel Enhanced Small Form Factor Pluggable (SFP+) 10 Gigabit Ethernet interface.

The XMC-Connector P15 provides access to the Intel X710-TM4/AT2 quad/dual port 10GbE controller via an x8/x4 PCIe link. Two Ethernet interfaces support 100, 1000 Mbit/s and 2.5, 5, 10 Gbit/s transmission rates and the two SFP+ Cages accept various SFP and SFP+ transceiver modules. These two SFP+ hosts are connected to the Ethernet Controller's SFI Interfaces.

- 2 x 10 Gigabit Ethernet interfaces
- Option for additional 2x 10 Gigabit Ethernet interfaces via front panel SFP+ connectors
- Suitable for use on boards with an XMC expansion slot
- For use in air-cooled environments
- Support for Linux® and Windows®



Technical Information:

- Form Factor: single-width XMC module conforming to ANSI/VITA 42.0
 - Board size: 124 mm x 74 mm
- x8/x4 PCI Express 3.0 compliant interface conforming to ANSI/VITA 42.3
- IPMI resource: FRU hardware definition information stored in on-board EEPROM
- Quad/dual port Intel X710-TM4/AT2 10 Gigabit Ethernet controller
- Two RJ45 connectors:
 - 10GBase-T
 - NBase-T
 - 1000Base-T
 - 100Base-TX
- Two SFP+ Cages:
 - 10GBase-CU (SFP+ Direct Attach, twinax)
 - SFPwire SFP+ Active Optical Cable
 - 10GBase-SR/SW / 1000Base-SX
 - 10GBase-LR/LW / 1000Base-LX
 - 10GBase-T
 - 1000Base-T
- IEEE 1588/802.1AS Precision Time Protocol (PTP)
- 64 Mbit serial flash storing configuration data and providing memory for Boot ROM for all channels
- Operating temperature -40°C to +85°C, constant airflow of 2m/s is required
- MTBF (MIL-HDBK217F/FN2 GB 20°C)
 - XM 522/020-10: 404000 h
 - XM 522/022-20: 293000 h

Software Support:

- Software support for Intel X710-TM4/AT2 at www.intel.com
- For operating systems not supported by Intel, please contact Concurrent.

Tested transceiver modules list:

(This list is provided for guidance and does not guarantee availability. Please contact your local Concurrent representative for more information. This list first published November 2025)

- Intel XDACBL1M (SFP+ Direct Attach Twinaxial Cable)
- Finisar FCBG110SD1C01 (SFP+ SFPwire Active Optical Cable)
- Intel E10GSFPSR (SFP+ 10GBase-SR/SW or 1000Base-SX)
- Finisar FTLX8571D3BCV (SFP+ 10GBase-SR/SW or 1000Base-SX)
- Intel E10GSFPLR (SFP+ 10GBase-LR/LW or 1000Base-LX)
- Finisar FTLX1471D3BCV (SFP+ 10GBase-LR/LW or 1000Base-LX)
- 10Gtek ASF-10G-T (SFP+ 10GBase-T)
- Finisar FCLF8522P2BTL (SFP 1000Base-T)