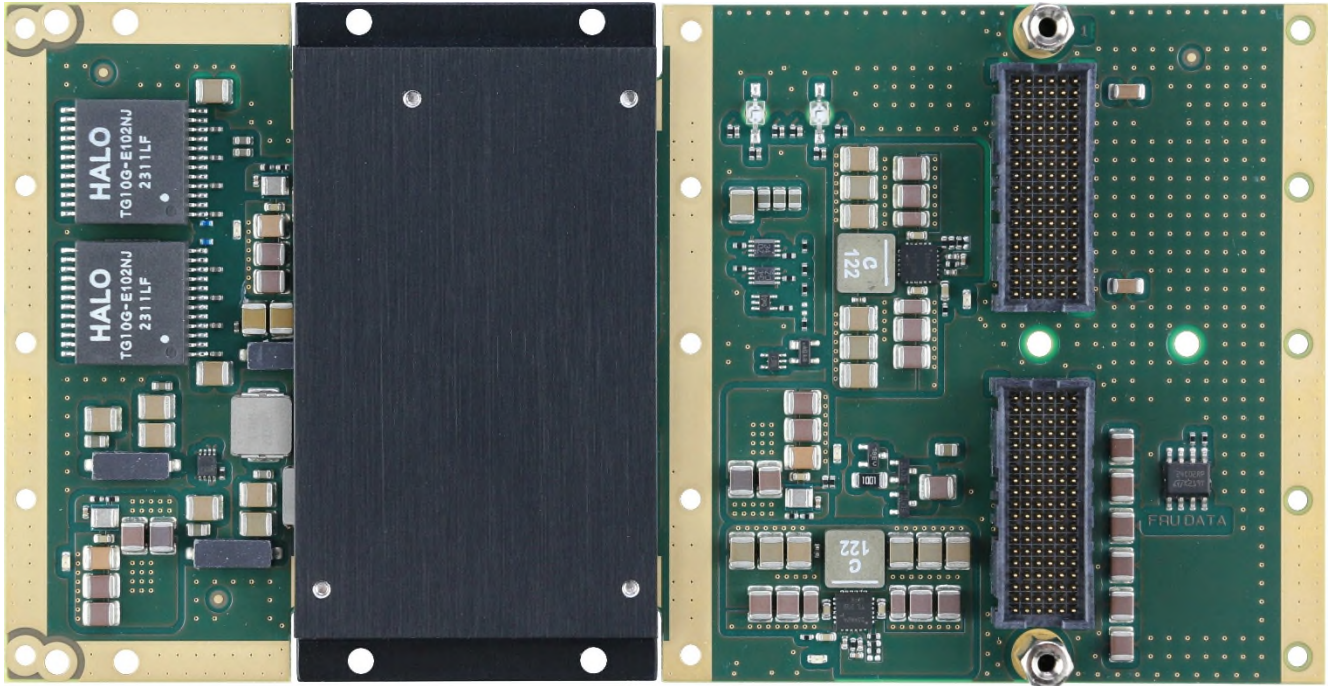


TXMC397 Conduction Cooled, 2 Channel 10GBASE-T Ethernet



TXMC397-10R

Application Information

The TXMC397 is a Conduction Cooled Switched Mezzanine Card (CCXMC) compatible module providing a two channel 100Base-TX / 1000Base-T / 2.5GBase-T / 5GBase-T / 10GBase-T Ethernet interface.

The XMC-Connector P15 provides access to the Intel X710-AT2 dual port 10GbE controller via an x4 PCIe link. Both Ethernet interfaces support 100, 1000 Mbit/s and 2.5, 5, 10 Gbit/s transmission rates.

The controller is equipped with a 64 Mbit Serial Flash to support PXE and iSCSI boot and LEDs indicate the different network activities.

The two Ethernet interfaces of the TXMC397 are capable of performing an auto negotiation algorithm which allows both link-partners to determine the best link-parameters. The TXMC397 supports IEEE 1588/802.1AS Precision Time Protocol (PTP).

The TXMC397-10R provides two 10GBase-T Ethernet interfaces via Back I/O P16 connector and they are both mapped in the X12d range specified in VITA46.9 standard.

The TXMC397-20R provides two 10GBase-T Ethernet interfaces via Back I/O P16 connector and they are both mapped in the X8d range specified in VITA46.9 standard.

The module meets the requirements to operate in extended temperature range from -40°C to +85°C (Card Edge Temperature).

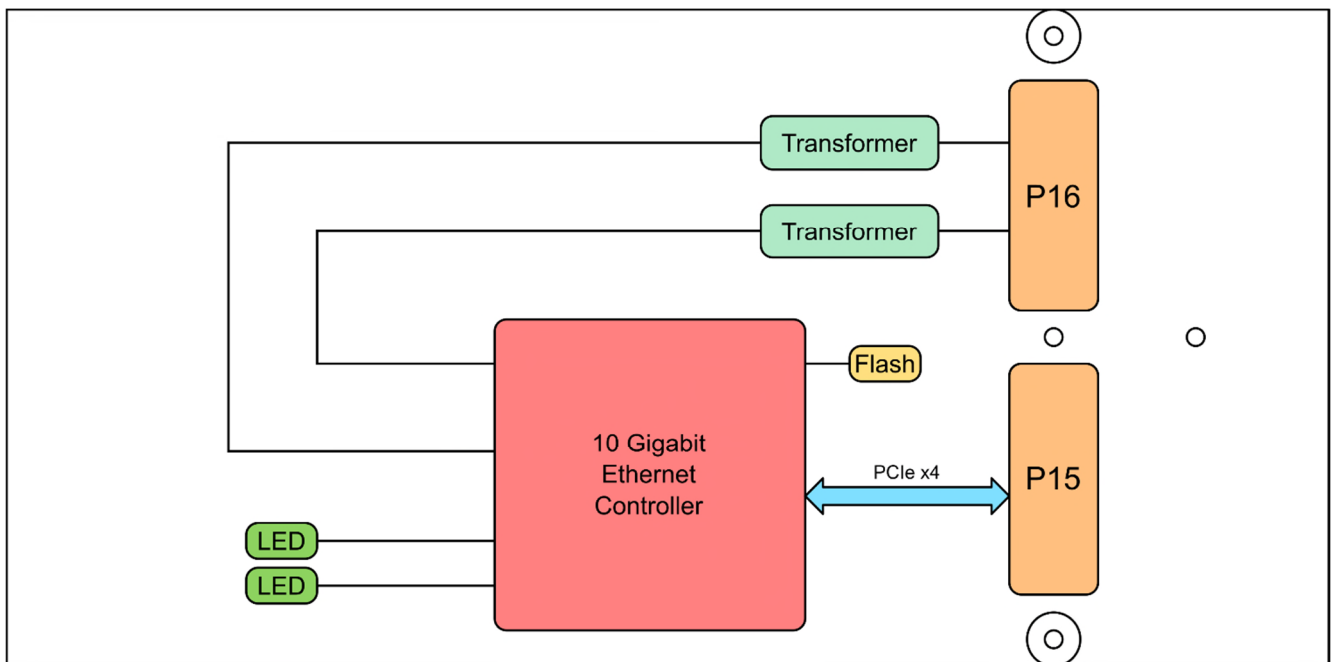
Software Support:

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

The Embedded I/O Company

Technical Information

- Form Factor: Standard single-width CCXMC module conforming to ANSI/VITA 42.0 and ANSI/VITA 20
 - Board size: 143.75 mm x 74 mm
- x4 PCI Express 3.0 compliant interface conforming to ANSI/VITA 42.3
- IPMI resource: FRU hardware definition information stored in on-board EEPROM
- Dual port Intel X710-AT2 10 Gigabit Ethernet controller
- Back I/O P16 connector
 - Both ports mapped in X12d range or both ports mapped in X8d range (VITA46.9)
- 10GBase-T
- NBase-T
- 1000Base-T
- 100Base-TX
- IEEE 1588/802.1AS Precision Time Protocol (PTP)
- 64 Mbit serial flash storing configuration data and providing memory for Boot ROM for both channels
- Operating temperature -40°C to +85°C (Card Edge)
- MTBF (MIL-HDBK217F/FN2 G_B 20°C)
 - TXMC397-10R: 441000 h
 - TXMC397-20R: 441000 h



Order Information

RoHS Compliant

- TXMC397-10R** 2 Channel 10GBASE-T Ethernet; P16 Back I/O (X12d); Conduction Cooled
- TXMC397-20R** 2 Channel 10GBASE-T Ethernet; P16 Back I/O (X8d); Conduction Cooled

For the availability of non-RoHS compliant (lead solder) products please contact TEWS.