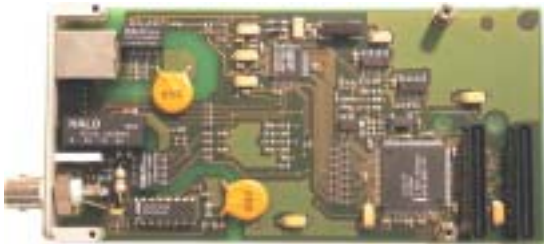


TPMC880 10/100Mb/s Ethernet Adapter

Application Information

The TPMC880 is a PCI Mezzanine Card (PMC) compatible module providing a single channel Ethernet Interface and is available in three different configurations: The TPMC880-11 supports a complete Ethernet 10/100Base-T interface, the TPMC880-12 provides an Ethernet 10Base2 ("Cheapernet") interface and the TPMC880-10 combines both interface types (10/100Base-T and 10Base2) on one board.

All modules use an Intel™ 21143-TD Ethernet controller which supports 10 and 100Mb/s transmission rates for half and full duplex operation. The TPMC880-10/11 is capable of performing an auto negotiation algorithm which allows both link-partners to find out the best link-parameters by themselves. All TPMC880 are widely user configurable via configuration and status register access over the PCI-bus. All modules have front panel mounted LED's to indicate various network activities.



The TPMC880-11 provides a 10/100 Mb/s network connection via an RJ-45 connector. A LXT970A device supports all physical functions on the Twisted-Pair transmission line and is fully IEEE802.3 compliant. The twisted-pair port is galvanically isolated from the LXT970A and the Ethernet controller by an isolation module. The TPMC880-10/12 provides a 10Base2 ("Cheapernet") network connection via a BNC connector.

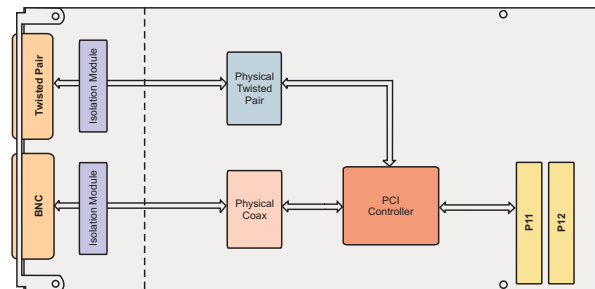
To guarantee overvoltage protection up to 500Vrms the BNC transmission path and the supply voltage is fed over a DC/DC converter and an isolation module to the coax transceiver, which is directly connected to the coax cable. The TPMC880-10 provides a 10Base2 and a 10/100Base-T interface on the same board.

For First Time Users the engineering documentation TPMC871-ED is recommended. The engineering documentation includes TPMC880-DOC, schematics and data sheets.

Driver support (TPMC880-SW-xx) for different operating systems is available.

Technical Information

- Standard single-width 32 bit PMC module conforming to IEEE P1386.1
- PCI 2.1 compliant interface
- Board size: 149mm x 74mm
- IEEE802.3 compliant LAN interface
- Support of front panel status LED's
- 10/100Base-T or/and 10Base2 interface available
- Half or full-duplex operation
- Controller supports DMA-cycles as a bus master
- Network ports galvanically isolated up to 500Vrms



Order Information

- | | |
|----------------------|--|
| TPMC880-10 | 10/100Base-T and 10Base2 Ethernet Interface |
| TPMC880-11 | Single 10/100Base-T Ethernet Interface |
| TPMC880-12 | Single 10Base2 Ethernet Interface |
| TPMC880-DOC | User Documentation |
| TPMC880-ED | Engineering Documentation, includes TPMC880-DOC |
| TPMC880-SW-12 | OS-9 Software Support |
| TPMC880-SW-32 | pSOS Software Support |
| TPMC880-SW-42 | VxWorks Software Support |
| TPMC880-SW-62 | Windows NT 4.0 Software Support; Use driver from Intel for 21143 |
| TPMC880-SW-65 | Windows XP/2000/98 SE/ME Software Support; Use standard Windows XP/2000 driver |

All other operating systems: Please contact TEWS