

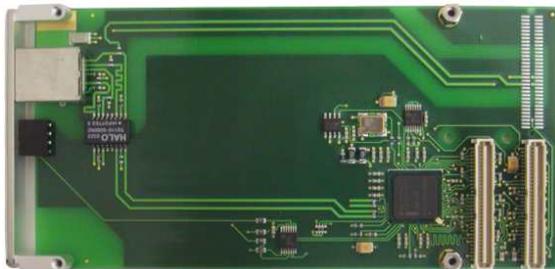
# TPMC881 Single Channel 10/100Mbit/s Ethernet

### Application Information

The TPMC881 is a PCI Mezzanine Card (PMC) compatible module providing a single channel Ethernet 10BASE-T/100BASE-TX interface.

An Intel™ 82551ER/82551IT Ethernet Controller is used, which supports 10 and 100Mbit/s transmission rates for half and full duplex operation. The TPMC881-10x is capable of performing an auto negotiation algorithm which allows both link-partners to find out the best link-parameters by themselves. The TPMC881 is widely user configurable via configuration and status register access over the PCI bus. Front panel mounted LEDs indicate various network activities.

The TPMC881-10x provides a 10/100Mbit/s network connection via a front panel RJ45 connector, TPMC881-11x provides rear panel I/O via P14. The ports are galvanically isolated from the Ethernet Controller.



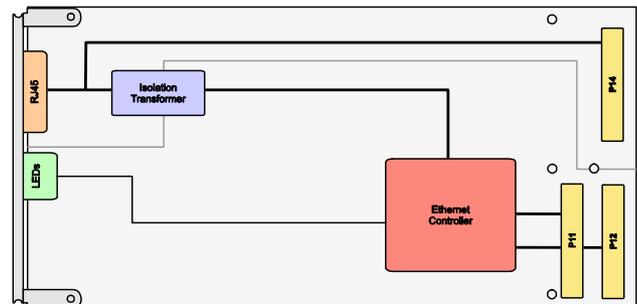
For First Time Users the Engineering Documentation TPMC881-ED is recommended. The Engineering Documentation includes TPMC881-DOC, schematics and data sheets.

### Software Support:

- The TPMC881 is directly supported from Linux, QNX6 (Neutrino) and LynxOS.
- Software support for Windows XP/2000/NT4.0 is available from Intel at [www.intel.com/design/network/products/ethernet/linecard\\_ec.htm](http://www.intel.com/design/network/products/ethernet/linecard_ec.htm).
- For other operating systems please contact TEWS.

### Technical Information

- Standard single-width 32 bit PMC module conforming to IEEE P1386.1
- PCI 2.1 compliant interface
- 3.3V and 5V PCI Signaling Voltage
- Board size: 147 mm x 74 mm
- IEEE802.3 compliant LAN interface
- Support of front panel status LEDs
- 10BASE-T/100BASE-TX interface available
- Half or full-duplex operation
- 3 Kbyte Transmit and Receive FIFOs
- Controller supports DMA cycles as a bus master
- Temperature range: 0°C to +85°C (-10x / -11x) -40°C to +85°C (-10x-ET / -11x-ET)



**Order Information****RoHS Compliant**

<b>TPMC881-10R</b>	Single 10BASE-T/100BASE-TX Ethernet Interface Front Panel I/O
<b>TPMC881-10R-ET</b>	Single 10BASE-T/100BASE-TX Ethernet Interface Extended Temperature Range Front Panel I/O
<b>TPMC881-11R</b>	Single 10BASE-T/100BASE-TX Ethernet Interface P14 I/O
<b>TPMC881-11R-ET</b>	Single 10BASE-T/100BASE-TX Ethernet Interface Extended Temperature Range P14 I/O

**None RoHS Compliant**

<b>TPMC881-10</b>	None RoHS compliant version of TPMC881-10R
<b>TPMC881-10-ET</b>	None RoHS compliant version of TPMC881-10R-ET
<b>TPMC881-11</b>	None RoHS compliant version of TPMC881-11R
<b>TPMC881-11-ET</b>	None RoHS compliant version of TPMC881-11R-ET

**Documentation**

<b>TPMC881-DOC</b>	User Manual
<b>TPMC881-ED</b>	Engineering Documentation, includes TPMC881-DOC