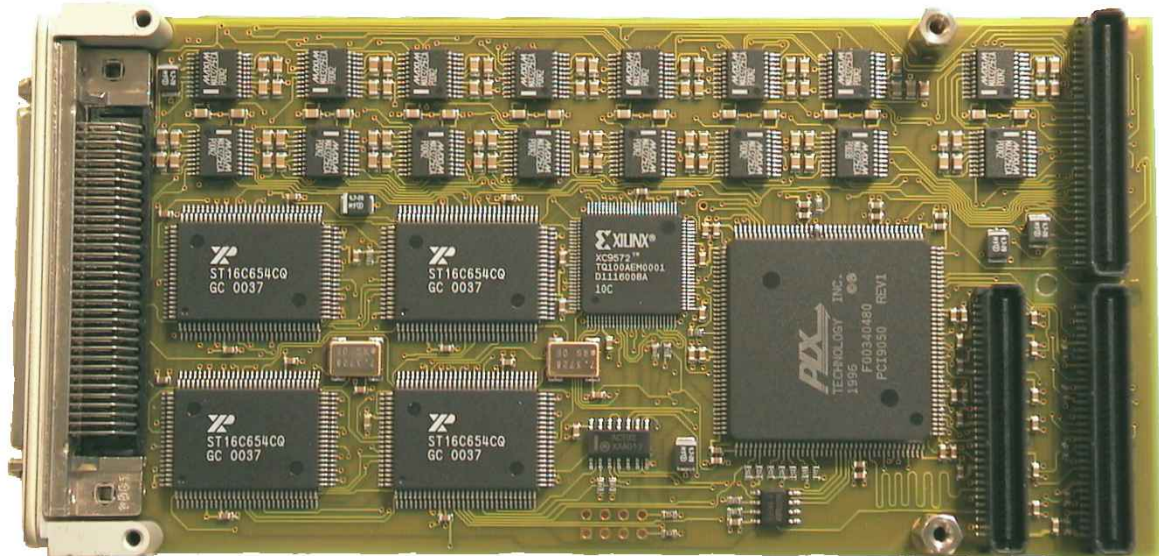# TPMC868   16 Channel Serial Interface

TPMC868-10R

Application Information

The TPMC868 is a standard single-width 32 bit PMC module and offers 16 channels of high performance asynchronous serial interface. Two different modules are available: the TPMC868-10R offers 16 RS232 channels with front panel I/O and P14 I/O supporting RxD, TxD, RTS, CTS and GND for each channel. The TPMC868-11R provides 16 RS422 channels with front panel I/O and P14 I/O supporting RxD+/-, TxD+/- and GND per channel.

Each channel has a 64 byte transmit FIFO and a 64 byte receive FIFO to significantly reduce the overhead required to provide data to and get data from the transmitters and receivers. The FIFO trigger levels are programmable.
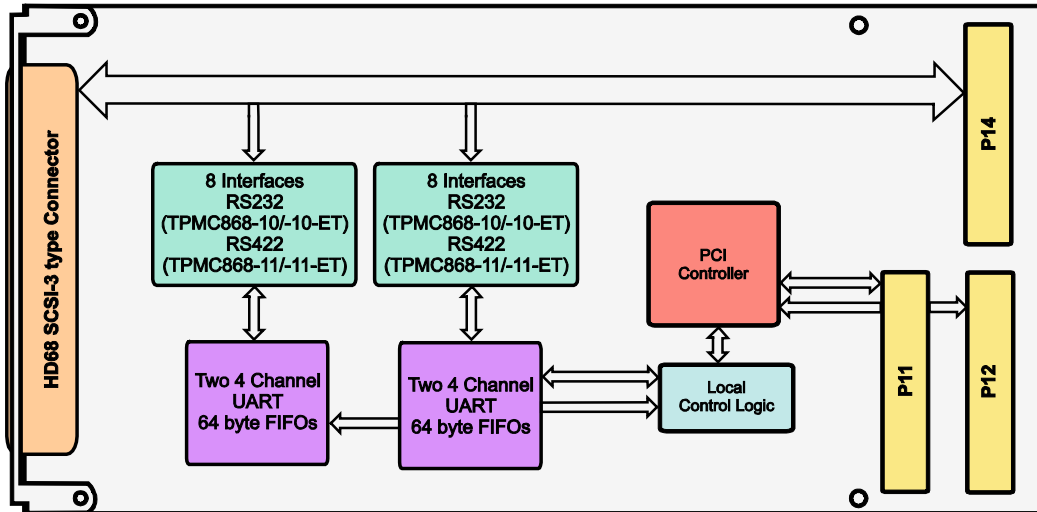
The baud rate is individually programmable up to 230 Kbaud. All serial channels use ESD protected transceivers up to +/-15KV according to IEC 1000-4-2.

All TPMC868 modules are available in extended temperature range as TPMC868-xxR-ET versions.

Software support (TPMC868-SW-xx) is available for different operating systems.

Technical Information

- ❏ Standard single-width 32 bit PMC module conforming to IEEE P1386.1
- ❏ PCI 2.1 compliant interface
- ❏ Board size: 149 mm x 74 mm
- ❏ 16 channel asynchronous serial interface RS232
- ❏ Support of RxD, TxD, RTS, CTS and GND for each serial channel of the TPMC868-10R and RxD+/-, TxD+/- and GND for each serial channel of the TPMC868-11R
- ❏ Programmable baud rates up to 230 Kbaud
- ❏ 64 byte transmit FIFO per channel
- ❏ 64 byte receive FIFO per channel
- ❏ ESD protected transceiver (up to +/- 15KV according to IEC 1000-4-2)
- ❏ Temperature range:
  0°C to +70°C (TPMC868-10R/-11R)
  and -40°C to +85°C (TPMC868-10R-ET/-11R-ET)

TEWS TECHNOLOGIES GmbH keeps the right to change technical specification without further notice.
All trademarks mentioned are property of their respective owners.

Issue 1.0.0
2013-12-05

Order Information

RoHS Compliant

TPMC868-10R   16 Channel Serial RS232, HD68
TPMC868-10R-ET   16 Channel Serial RS232, HD68, ext. temp.
TPMC868-11R   16 Channel Serial RS422, HD68
TPMC868-11R-ET   16 Channel Serial RS422, HD68, ext. temp.

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

Documentation
TPMC868-DOC   User Manual

Software
TPMC868-SW-25   Integrity Software Support
TPMC868-SW-42   VxWorks Software Support (Legacy and VxBus-Enabled Software Support)
TPMC868-SW-65   Windows Software Support
TPMC868-SW-72   LynxOS Software Support
TPMC868-SW-82   Linux Software Support
TPMC868-SW-95   QNX Software Support

For other operating systems please contact TEWS.

Related Products
TA304   Cable Kit for Modules with HD68 Connector
TPIM003   PIM I/O Module, HD68 connector, special pin assignment