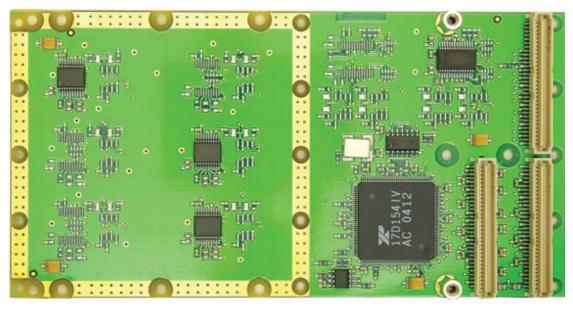


TPMC372 Conduction Cooled PMC, 4 Channel RS232/RS422



TPMC372-10R

Application Information

The TPMC372 is a conduction cooled single-width 32 bit PMC module and offers 4 channels of high performance asynchronous serial interface.

Three different standard modules are available: The TPMC372-10xR provides 4 RS232 interfaces. The TPMC372-11xR provides 4 RS422 interfaces. The TPMC372-12xR provides 2 RS232 and 2 RS422 interfaces.

Other configurations are available as factory build option on a per channel base.

All modules offer P14 I/O. Each RS232 channel supports RxD, TxD, RTS, CTS and GND. Each RS422 channel supports RxD+/-, TxD+/- and GND. One channel of the TPMC372-10xR/-12xR offers full modem support (TxD, RxD, CTS, RTS, DSR, DTR, CD, RI and GND) for RS232. One channel of the TPMC372-11xR supports RxD+/-, TxD+/-, RTS+/-, CTS+/- and GND for RS422.

Each channel has 64 byte transmit and receive FIFOs to significantly reduce the overhead required to provide data to and get data from the transmitters and receivers. The FIFO trigger levels are programmable and the baud rate is individually programmable up to 921.6 kbps for RS232 channels and 5.5296 Mbps for RS422 channels. The UART offers readable FIFO levels.

All channels generate interrupts on PCI interrupt INTA. For fast interrupt source detection the UART provides a special Global Interrupt Source Register.

All serial channels use ESD protected transceivers. ESD protection is up to ±15KV.

The TPMC372 can operate with 3.3V and 5.0V PCI I/O signaling voltage.

Software Support (TDRV002-SW-xx) for operating systems is available.



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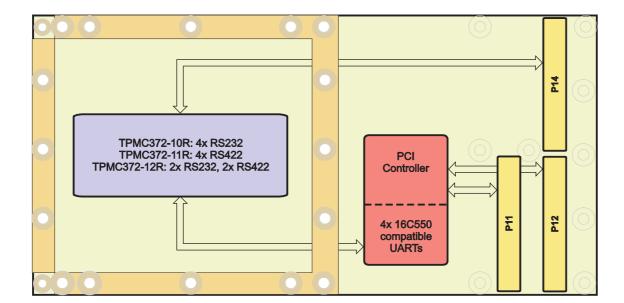
e-mail: info@tews.com www.tews.com



The Embedded I/O Company

Technical Information

- O Conduction cooled single-width 32 bit PMC module conforming to IEEE P1386.1, no front panel
 - O Target Chip: XR17D154 (Exar)
 - O PCI 2.3 compliant interface
 - O PCI I/O signaling voltage 5V and 3.3V
- O Board size: 143.75 mm x 74 mm
- O Asynchronous serial interface
- O Quad UART: Exar XR17D154
- O Support of RxD, TxD, RTS, CTS and GND for each RS232 channel; RxD+/-, TxD+/- and GND for each RS422 channel. One channel offers extended support (full modem or RTS+/- and CTS+/-)
- O Programmable baud rates: RS232: up to 921.6 kbps RS422: up to 5.5296 Mbps
- O 64 byte transmit FIFO per channel
- O 64 byte receive FIFO per channel
- O Readable FIFO levels
- O Global Interrupt Source Register
- O General Purpose 16 bit Timer/Counter
- O ESD protected transceiver (up to ± 15KV)
- O Operating temperature -40°C to +85°C





The Embedded I/O Company

Order Information

RoHS Compliant

TPMC372-10R ccPMC, 4 Channel Serial RS232, P14 I/O ccPMC, 4 Channel Serial RS422, P14 I/O ccPMC, 4 Channel Serial RS422, P14 I/O

TPMC372-12R ccPMC, 2 Ch. Serial RS232, 2 Ch. Serial RS422, P14 I/O Other configurations are available as factory option on a per channel base.

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

Documentation

TPMC372-DOC User Manual

Software

TDRV002-SW-25 Integrity Software Support

TDRV002-SW-42 VxWorks Software Support (Legacy and VxBus-Enabled Software Support)

TDRV002-SW-65 Windows Software Support
TDRV002-SW-82 Linux Software Support
TDRV002-SW-95 QNX Software Support

For other operating systems please contact TEWS.

Accessories

TPIM001 PIM I/O Module, HD50 connector

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