# **PMC Modules**



# PMC520 Octal Serial 232 Communication

These modules provide eight asynchronous serial communication ports from a single PMC carrier slot. Software-configuration helps you quickly set baud rates, character-sizes, stop bits, and parity. Signal support for RTS/CTS handshaking is also included.

For more efficient data processing, each serial port is equipped with 64-character FIFO buffers on the transmit and receive lines.

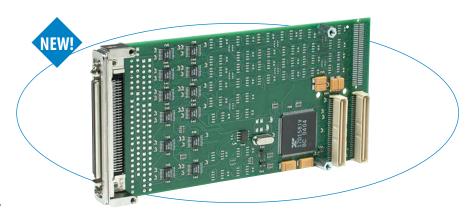
The data ports generate individually controlled transmit, receive, line status, and data set interrupts. A global interrupt source register provides interrupt status indication for all eight channels to speed up interrupt parsing.

# **Features**

- Eight RS232E ports
- 64-byte transmit FIFO buffers 64-byte receive FIFO buffers
- Programmable baud rate (up to 120Kbps)
- Individual handshake lines (RTS, CTS) on each channel
- Line-break and false start-bit detection
- Industry-standard software-compatible 16C550 configuration registers

# **Benefits**

- High-density design lowers per-port costs and saves PMC carrier card slots for other functions.
- 64-byte FIFO buffers minimize CPU interaction for improved system performance.
- Each serial channel provides handshake support to simplify interfacing with modems.



With eight serial ports per module, the PMC520 provides a high-density solution to reduce costs and use fewer card slots.

# **Specifications**

# **RS232E Serial Ports**

Configuration: Independent, non-isolated serial ports with a common single return connection and configured as a DTE device.

Data rate: Programmable up to 120K bits/second using internal baud rate generator.

Max. cable length: 15 meters (50 feet) typical, limited to a cable capacitive load of 2500pF.

Character size: 5 to 8 bits, software-programmable.

Parity: Odd, even, or no parity; software-programmable.

Stop bits: 1, 1-1/2, or 2 bits; software-programmable.

Data register buffers: Double buffered or 64-byte FIFO buffered, mode selectable.

Interrupts: Receiver line status (overrun, parity, framing error, or break interrupt); received data available (FIFO level reached) or character time-out; transmitter (FIFO level reached); or modem status (CTS).

## **Environmental**

Operating temperature: 0 to 70°C (PMC520-64) or -40 to 85°C (PMC520-64E).

Storage temperature: -55 to 125°C.

Relative humidity: 5 to 95% non-condensing.

Power: +5V ( $\pm 5\%$ ), consult factory for current specifications. MTBF: Consult factory.

## **PMC Compliance**

Conforms to PCI Local Bus Specification, Revision 2.3 and CMC/PMC Specification, P1386.1.

4K Memory Space Required: One Base Address Register. Signaling: 3.3V and 5V compliant.

# **Ordering Information**

# PMC Modules PMC520-64

Eight RS232E serial ports, front I/O connector

#### PMC520-64E

Same as PMC520-64 plus extended temperature range.

#### PMC520-64R

Same as PMC520-64 except with rear I/O connector

## PMC520-64RE

Same as PMC520-64R plus extended temperature range

# **Customized PMC Modules**

†5085-x

 $Modified\ PMC520-64\ with\ user-specified\ crystal/baud\ rate.$ 

† Specify x = crystal frequency when ordering. Minimum quantity per order is two units.

**Software** (see Catalog 8400-139 for more info) PMCSW-API-VXW

VxWorks® software support package

# PCISW-API-QNX

QNX® software support package

### PCISW-API-WIN

Windows® DLL software support

**Accessories** (see Catalog 8400-139 for more info) **5025-288** 

Termination panel, SCSI-3 connector, 68 screw terminals

#### 5028-432

Cable, shielded, SCSI-3 connector both ends

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