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Product Details: PMC-OCTPRO-422
PMC-OCTPRO-422

Product Description

The PMC-Octal Pro-422 conveniently provides eight high performance asynchronous EIA-422 serial channels. A similar product, the PMC-Octal Pro-232, provides eight channels of EIA-232. The PMC-Octal Pro-422 features two Quad UARTs, with 128 bytes of transmit FIFO and 128 bytes of receive FIFO per channel. Up to 460.8 kbps is supported.

Each channel of EIA-422 has four pairs of differential serial signals – TxD+, TxD-, RxD+, RxD-, CTS+, CTS-, RTS+, and RTS-. All signals are routed to the front 68-pin connector, as well as the PMC back panel (P4) I/O connector. A breakout cable and a 68-pin terminal block is available for convenient signal access. These are recommended for prototype development.

A 7.3728 MHz standard oscillator is used to provide standard asynchronous baud rates. Baud rate is software configurable from 50 bps to 460.8 kbps, via the on-board programmable baud rate generator. An empty oscillator site is also available on-board, for custom baud rate generation. Interrupts are fully supported with four programmble transmit/receive FIFO interrupt trigger levels. In addition, programmable bit length, parity and stop bits are provided to support all asynchronous protocols.

Socketed resistor networks are provided to allow customization of EIA-422 termination.

VxWorks 5.3 and Windows NT 4.0 asynchronous drivers are available.

The module is compliant with standard PMC specifications IEEE P1386.1.

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