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IP-OCTAL-485

IndustryPack® with 8 EIA-485 Asynchronous Serial Ports

Features

- Eight EIA-485 ports on a single-wide IndustryPack
- Three-level FIFOs on all receivers
- Support for DX+, DX-, and GND on each channel
- Programmable baud rates in 18 steps up to 38.4 kbps
- Four 16-bit timers



The IP-Octal-485 IndustryPack module implements eight EIA-485 asynchronous serial ports, each with DX+, DX- balanced pair signals and a ground.

Serial ports are implements with the Signetics SCC2698B octal UART. Each channel has a three-character FIFO on its receiver to allow longer interrupt servicing latencies. Eighteen programmable baud rates up to 38.4 kbps, and programmable bit length, parity, and stop bits are supported.

Four independent 16-bit timers are provided. The IndustryPack Strobe* pin may be used as a clock input or output depending on the setting of user shunts.

Specifications

Form Factor	Single-wide Type I IndustryPack
IndustryPack Interface	Complies with ANSI/VITA-4
Number of Async Serial Ports	8
Signals Supported	DX+, DX-, GND
General-Purpose Inputs	None
UART	Signetics SCC2698B
Baud Rates	Programmable in 18 steps to 34.8 kbps
Stop Bits	Programmable in 1/16 bit increments from 0 to 2
Receiver FIFO	3 characters
Transmitter FIFO	None
Timers	4, independent, 16 bit
Interrupts	32 sources, maskable, vectored
Dimensions	1.8 inches x 3.9 inches
Weight	0.06 kg (0.1 lb)
Power Requirements	+5 VDC, 285 mA typ
Environmental	Operating temperature: +10 to +50°C Humidity: 5 to 95% non-condensing Storage: –40 to +85°C

Note: If the interrupt vector is to be used, this product occupies IndustryPack memory space if the carrier it is plugged into does not permit writes into ID PROM space. This situation applies to the MVME162.

Compatible Transition Modules

Order Code	*Description*
XM-OCTAL	19” rack-mountable 16 serial port transition module with DB9 females
XM-OCTAL-6U-D	6U-mountable front panel transition module with eight 25D females
XM-OCTAL-6U-RJ8	6U-mountable front panel transition module with eight RJ45s
XM-OCTAL6URJ16	6U-mountable front panel transition module with sixteen RJ11s

Note that carriers with Champ50 connectors are not compatible with these transition modules.

Associated Products

C-HD50M-CM50M	Six foot Champ50 male to HD50 male cable
IP-TERM-HD50	50 screw terminal block with HD50 female connector

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