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Find the *Abaco Systems / SBS / Greenspring P1-OCTAL-TTL* at our website: *Click HERE*

P1-OCTAL

Type I PC•MIP Module with Eight Serial Channels

Features

- Type I with Flexible I/O for Rear-Panel Access
- Eight RS-232, RS-422, or TTL-compatible (order option) Asynchronous Serial Channels
- Data Rates to 460.8 kbaud (RS-422) or 115.2 kbaud (RS-232, TTL)
- 128 byte Transmit and 128 byte Receive FIFOs per Channel
- Windows® NT/2000 and VxWorks® drivers available



The P1-OCTAL provides eight channels of EIA-232, EIA-422, or TTL-compatible (3.3V) asynchronous serial communication on a Type I (flexible I/O) PC•MIP module. Its high channel density makes it ideal for communications applications that require a large number of serial channels in a small space. Type II (front panel I/O) versions of this product are also available.

The P1-OCTAL features two quad UART SCCs, with 128 bytes of transmit FIFO and 128 bytes of receive FIFO per channel. Data rates of up to 460.8 kbaud are supported for RS-422 communications, and up to 115.2 kbaud for RS-232 and TTL (3.3V) communications.

Serial signals for each channel are routed to the flexible I/O connector for rear-panel access. For the RS-232 and RS-422 options, all signals are ESD-protected up to ±15 kV, according to IEC 1000.4.2 specifications.

Baud rate is software configurable from 50 bps to the maximum rate via the on-board programmable baud rate generator. Interrupts are fully supported per channel, with four programmable transmit/receive FIFO interrupt trigger levels. In addition, programmable bit length, parity and stop bits are provided to support all asynchronous protocols.

Drivers for VxWorks 5.5.4/5.4.2/5.5 and Windows NT 4.0 /2000 are available. The P1-OCTALs are compatible with the PC•MIP draft specification (ANSI/VITA-29).

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P1-Octal Specifications

Form Factor	PC•MIP Type I Single-Wide 8H
PC•MIP Interface	PC•MIP Draft Specification (ANSI/VITA-29), Revision 0.9
PCI Controller	Altera EPF6016
UART	Two Exar XR16C854
Number of Channels	Eight
I/O Access	Flexible I/O connector for rear-panel access
FIFO	128 bytes for transmit, 128 bytes for receive per channel
Physical Levels Supported	TTL-compatible (3.3V) or EIA-232 or EIA-422 (Ordering Option)
Signals Supported	TxD, RxD, CTS, and RTS (TTL or EIA-232 options only) TxD+, TxD-, RxD+, and RxD- (EIA-422 option only)
Physical Interface	Texas Instruments SN75C188 and SN75C189 (EIA-232 option) Dallas Semiconductor DS26C31 and DS26C32A (EIA-422 opt.)
Dimensions	47.0 mm x 90.0 mm
Weight	0.027 kg (0.065 lb.)

Power Requirements

	TTL (3.3V)	EIA-232	EIA-422
+3.3 VDC (mA typ.)	40	110	80
+5.0 VDC (mA typ.)	40	80	280
+12.0 VDC (mA typ.)	N/A	60	N/A
-12.0 VDC (mA typ.)	N/A	60	N/A

Environmental

Operating temperature: 0° to +70°C;
Storage temperature: -40° to +85°C
Humidity: 5% to 95% non-condensing

Software Drivers

VD-XRSIO driver pack for VxWorks x86 and PPC -- (VxWorks 5.4/5.4.2/5.5)

ND-XR16C854 driver pack for Windows NT/2000

Ordering Information

P1-OCTAL232	Type I PC•MIP Module with Eight EIA-232 Serial Interfaces
P1-OCTAL422	Type I PC•MIP Module with Eight EIA-422 Serial Interfaces
P1-OCTALTTL	Type I PC•MIP Module with Eight TTL-compatible (3.3V) Serial Interfaces

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