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P2-Octal-232

Type II PC◄MIP Module with 8 EIA-232 Serial Channels

Application Information

The P2-Octal-232 provides eight channels of EIA-232 asynchronous serial communication on a Type II (front panel 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 I (flexible I/O) and EIA-422 versions of this product are also available.

The P2-Octal-232 features two quad UART SCCs, with 128 bytes of transmit FIFO and 128 bytes of receive FIFO per channel. Data rates of up to 115 kbaud are supported.

Each channel has four serial signals: TxD, RxD, CTS and RTS. Signals are routed to the front panel 36-pin Champ connector. Additionally, 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 460.8 kbps, 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.

A VxWorks 5.3 driver and a Windows NT 4.0 driver are available for the P2-Octal-232. The P2-Octal-232 is compatible with the PC◄MIP draft specification (ANSI/VITA-29).

Features

- Type II with front panel I/O access
- Eight Channels of RS-232
- 115 kbaud maximum data rate
- Asynchronous UART protocol
- Programmable to 1, 1.5, and 2 programmable stop bits
- EIA-232 signals: TxD, RxD, CTS, and RTS
- 128 bytes for transmit and 128 bytes for receive, per channel
- 33 MHz, 32 bit, target, PCI Specifications 2.1
- VxWorks and Windows NT asynchronous drivers available

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Specifications

Form Factor	PC➔MIP Type II Single-Wide 8H
PC➔MIP Interface	PC➔MIP draft specification (ANSI/VITA-29), Revision 0.9
PCI	32-bit, PCI Specification, Revision 2.1
PCI Controller	Altera EPF6016
UART	Two Exar XR16C854
Physical Interface	Texas Instruments SN75C188 and SN75C189
Number of Channels	Eight
Physical Levels Supported	EIA-232
Maximum Data Rate	115 Kbaud
Signals Supported	TxD, RxD, CTS and RTS
Protocols Supported	Asynchronous UART
Stop Bits	Programmable to 1, 1.5, and 2
I/O Access	36-pin Champ Front Panel I/O connector
FIFO	128 bytes for transmit, 128 bytes for receive per channel
Dimensions	47.0 mm x 99.0 mm
Weight	0.029 kg (0.07 lb)
Power Requirements	+3.3 VDC, 110 mA typ operating +5.0 VDC, 80 mA typ operating +12.0 VDC, 60 mA typ operating -12.0 VDC, 60 mA typ operating
Environmental	Operating temperature: 0 to 70°C Humidity: 5 to 95% non-condensing Storage: –40 to +85°C

Compatability

P2-Octal-232 is a Type II module. This means that its I/O is via the Champ36 front panel I/O connector. It can only be plugged into a Type II or a Universal PC➔MIP slot. The table below shows compatible slots on SBS Technologies carriers:

Carrier	Type	Compatible Slots
MC-101	Short PCI slot	Yes
MC-101	Short PCI slot	Yes
MC-303	3U Compact PCI	4, 5
MC-606	6U Compact PCI	4, 5, 6, 7
MC-607	6U Compact PCI	4, 5, 6, 7
MC-804	Long PCI Slot	4, 5[1], 6[1], 7[1]

1. These sites can take Type II modules only if sufficient space is available above the carrier.

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Order Information

P2-OCT-232	Type II PC➔MIP module with eight EIA-232 serial interfaces Includes front panel bezel (B-002) and screws
EK-P2-OCT-232	Engineering Kit for P2-Octal-232. Contains: Printed hardware user manual One foot adaptor cable Champ36 male to HD68 female (C-CM36-232) Six foot transition cable HD68 male to eight DB25 male (C-HD68M-8D25M) DB25 to DB9 adaptor (A-D9M-D25F) Null modem (NULL-MODEM) Bill of materials Circuit schematic Assembly diagram Exar XR16C854 user manual Texas Instruments SN75C188 and SN75C189 data sheets
ND-P-OCT	Windows NT 4.0 driver for P-Octal, PMC-OctalPro-422. Floppy disk containing: Windows installation program Installation instructions Driver software license agreement
VD-PMC-OCTPRO	VxWorks 5.3 asynchronous driver for PMC-Octal Pro, P-Octal. Floppy disk includes: Driver software source code License agreement

Associated Products

P1-OCT-232	Type I PC➔MIP module with eight EIA-232 serial channels via flexible I/O
P1-OCT-422	Type I PC➔MIP module with eight EIA-422 serial channels via flexible I/O
P2-OCT-422	Type II PC➔MIP module with eight EIA-422 serial channels via front panel I/O
P2-HSS2	Type II PC➔MIP module with two High Speed Serial interfaces
B-002	Front panel bezel for Type II PC➔MIP modules with Champ36 connectors
C-CM36-232	One foot adaptor cable Champ36 male to HD68 female (C-C36M-HD68F)
C-HD68M-8D25M	Six foot transition cable HD68 male to eight DB25 male (C-HD68M-8D25M)
C-HD50M-CM36M	Transition cable from Champ36 male to HD50 male.
IP-TERM-HD50	50-pin screw terminal block with HD50 female connector
A-D9M-D25F	DB25 to DB9 serial port adaptor
NULL-MODEM	DB25 serial port NULL modem adaptor

SBS Technologies, Inc.

181 Constitution Drive, Menlo Park, California 94025
(650) 327-1200 •sales@sbs-mio.com •www.sbs.com

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