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Find the *Abaco Systems / SBS / Greenspring IP-MP-Serial423* at our website: ***Click HERE***

IP-MP-SERIAL423

IndustryPack® with 2 EIA-423
High Speed Multiprotocol Serial Ports

Features

- Two EIA-423 ports on a single-wide IndustryPack
- FIFOs on all receivers and transmitters
- Multiprotocol support including SDLC, HDLC, BiSync, NRZ, NRZI, and Biphase
- Support for RXD+, RXD-, TXD+, TXD-, RTS+, RTS-, CTS+, CTS-, DCD+, DCD-, DTR+, DTR-, DSR+, DSR-, TXC+, TXC-, RXC+, RXC-, GND
- Transmit clock can be input or output
- Data rates up to 10 Mb/s synchronous with external clock
- DMA and 32 MHz operation supported

The IP-MP-SERIAL423 IndustryPack module implements two EIA-423 high speed multiprotocol serial ports, each with a full set of handshake and clock signals. Protocols include SDLC, HDLC, BiSync, NRZ, NRZI, and Biphase.

The IP-MP-SERIAL423 incorporates the Zilog Z16C30 Universal Multi-Protocol Serial Controller (USC) which includes four 32 byte FIFO buffers. The two channels within the USC are completely independent. Each channel has a baud rate generator, a digital phase-locked loop, a vector register, an interrupt controller, and a protocol controller. Additional capabilities include 16 and 32-bit CRC generation and checking, one to eight bits per character, one address/data bit, MIL STD 1553B protocol support, sync stripping, preamble generation, and digital phase-locked loop circuits for clock recovery.

The IP-MP-SERIAL423 includes an on board 3.6864 MHz oscillator to provide all of the standard baud rates. A separate location is provided on the IndustryPack for a user-supplied oscillator to allow non-standard baud rates. The I/O interface provides four external clock lines to permit full duplex synchronous operation on both channels. The interface for each channel includes an external transmit and receive clock. The transmit clock can be programmed to be either an input to the IndustryPack or an output from the IndustryPack. The receive clock is an input only.

Independent interrupt vectors and controls are provided for each IP-MP- SERIAL423 channel.

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Specifications

Form Factor	Single-wide Type II IndustryPack
IndustryPack Interface	Complies with ANSI/VITA-4
Number of Serial Ports	Two
Signals Supported	RXD+, RXD-, TXD+, TXD-, RTS+, RTS-, CTS+, CTS-, DCD+, DCD-, DTR+, DTR-, DSR+, DSR-, TXC+, TXC-, RXC+, RXC-, GND. Transmit clock can be input or output.
General-Purpose Inputs	None
Termination	Resistor packs
UART	Z16C30
Crystal	3.6864 MHz
Baud Rates	50 to 115.2 kb/s from supplied crystal Up to 2 Mb/s async with external clock Up to 4 Mb/s sync with external clock on 8 MHz IndustryPack bus with DMA Up to 10 Mb/s sync with external clock on 32 MHz IndustryPack bus with DMA
Stop Bits	Programmable in 1/16 bit increments from 0 to 2
Receiver FIFO	32 characters per port
Transmitter FIFO	32 characters per port
Timers	None
ESD Protection	None
Interrupts	Maskable, vectored
Dimensions	1.8 inches x 3.9 inches
Weight	0.06 kg (0.1 lb)
Power Requirements (no load)	+5 VDC, 140 mA typ +12 VDC, 0 mA typ -12 VDC, 40 mA typ
Environmental	Operating temperature: -40° to +85°C Storage temperature: –55° to +125°C Humidity: 5% to 95% non-condensing

Order Information

IP-MP-SERIAL423	IndustryPack with 2 high-speed multiprotocol EIA-423 serial ports
C-IP50F-2D25F	Six foot, 50 conductor ribbon cable to two DB25 female connectors

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