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SBS Technologies, Inc.

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IP-Serial

IndustryPack Module With Two EIA-232/422/485 Multiprotocol Serial Ports

Application Information

The IP-Serial IndustryPack module implements two EIA-232/422/485 multiprotocol serial ports, each with a full set of handshake and clock signals. Protocols include SDLC, HDLC, BiSync, NRZ, NRZI, and Biphase.

Selection between EIA-232 and EIA-422 is performed by shunts. EIA-485 must be special-ordered from the factory and can only be supported on one channel.

The asynchronous receiver has a three-character FIFO. For synchronous operation (SDLC/HDLC) a frame status FIFO is provided that is ten frames deep.

Features

- Two EIA-232/422 ports on a single-wide IndustryPack
- Option for one port as EIA-485
- Muliprotocol support including SDLC, HDLC, BiSync, NRZ, NRZI, and Biphase
- Support for RXD+, RXD-, TXD+, TXD-, RTS+, RTX-, CTS+, RTS-, DSR+, DSR-, DTR+, DTR-, DCD/RXC+, DCD/RXC-, TXC+, TXC-, GND
- One channel can be clocked by the other
- Data rates up to 2 Mbps synchronous with external clock
- A conduction-cooled version of this board is also available

Specifications

Form Factor	Single-wide Type I IndustryPack
IndustryPack Interface	Complies with ANSI/VITA-4
Number of Serial Ports	Two
Signals Supported	RXD+, RXD-, TXD+, TXD-, RTS+, RTX-, CTS+, RTS-, DSR+, DSR-, DTR+, DTR-, DCD/RXC+, DCD/RXC-, TXC+, TXC-, GND
General-Purpose Inputs	None
Termination	Socketted resistor packs
UART	Z85C30
Crystal	3.6864 MHz
Baud Rates	50 to 57.6 kbps from supplied crystal Up to 2 Mbps async with external clock
Stop Bits	Programmable in 1/16 bit increments from 0 to 2
Receiver FIFO	3 characters per port
Transmitter FIFO	None
Timers	None
ESD Protection	None
Interrupts	Maskable, vectored
Dimensions	1.8 inches x 3.9 inches
Weight	0.06 kg (0.15 lb)
Power Requirements (no load)	+5 VDC, 330 mA typ +12 VDC, 35 mA typ -12 VDC, 35 mA typ
Environmental	Operating temperature: -0 to +50°C Humidity: 5 to 95% non-condensing Storage: –40 to +85°C

A conduction-cooled version of this board is also available. Contact factory for details.

Compatability

This IndustryPack has no compatible transition modules. Standard serial pin assignments are achieved via cable sets supplied in the engineering kits.

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Ordering Information

IP-SERIAL	IndustryPack with two EIA-232/422/485 multiprotocol serial ports
EKIP50-SERIAL	Engineering kit for IP-Serial if mounted on a carrier with 50-pin ribbon cable header front panel I/O connectors. Contains: Six foot ribbon cable to two DB25 female (C-IP50F-2D25F) *(More items as below)*
EKHD50-SERIAL	Engineering kit for IP-Serial if mounted on a carrier with HD50 front panel I/O connectors. Contains: Two foot cable HD50 male two DB25 male (C-HD50M-2D25M) *(More items as below)*
EKCM50-SERIAL	Engineering kit for IP-Serial if mounted on a carrier with Champ50 front panel I/O connectors. Contains: Six foot ribbon cable to two DB25 female (C-IP50F-2D25F) Three foot Champ50 male to ribbon cable (C-CM50M-IP50M) *(More items as below)*
All IP-SERIAL engineering kits include:	Printed hardware user annual Two null modem adaptors (NULL-MODEM) Bill of materials Board schematics Assembly diagram Zilog Z85C30 data sheet

Associated Products

IP-MPSERIAL	IndustryPack with two EIA-232/422/485 high speed multiprotocol serial ports
IP-COMM302	68302-based intelligent high-speed three channel multiprotocol IndustryPack
IP-COMM360	68360-based intelligent high-speed four channel multiprotocol IndustryPack
C-IP50F-2D25F	Six foot, 50 conductor ribbon cable to two DB25 males
C-IP50F-IP50F-3	Three foot 50 conductor ribbon cable
C-IP50F-IP50F-6	Six foot 50 conductor ribbon cable
C-CM50M-IP50M	Three foot Champ50 male to ribbon cable
C-IP50F-HD50M-2	Two foot ribbon header to HD50 male cable
C-HD50M-HD50M	Six foot HD50 male to HD50 male cable
C-HD50M-CM50M	Six foot Champ50 male to HD50 male cable
C-HD50M-2D25M	Two foot cable HD50 male two DB25 male
IP-TERM	50 screw terminal block with ribbon cable connector
IP-TERM-HD50	50 screw terminal block with HD50 female connector
NULL-MODEM	DB25 null modem adaptor

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