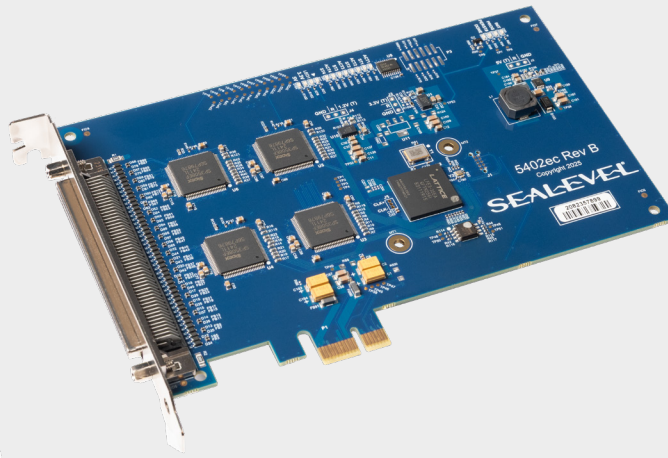




PCI Express 4-Port RS-232, RS-422, RS-485, RS-530, RS-530A, V.35 Synchronous Serial Interface

Part: 5402ec | **Model:** FACB-MP+4.PC1e

The 5402ec (FACB-MP+4.PC1e) is a four-port PCIe bus RS-232, RS-422, RS-485, EIA-530, EIA-530A, V.35 synchronous serial interface. Designed using Digital Core Design's Dual-Channel Multiprotocol Enhanced Serial Communication Controller (DMESCC) IP Core which emulates the popular Zilog Z85230 Enhanced Serial Communication Controller (ESCC), the board is an ideal solution for military, satellite, radar, banking, and other applications that require robust synchronous communications.

For maximum flexibility, each of the serial ports can be individually configured for RS-232, RS-422, RS-485, EIA-530, EIA-530A, V.35 communications. In RS-232 mode, all common modem control signals are implemented for compatibility with a wide range of peripherals. A digital phase lock loop (DPLL) is included on each port, and the board supports sustained data rates up to 1.2288 Mbps. For easy implementation, a fan-out cable is included that terminates the onboard 100-pin connector to four DB-25M connectors.

The 5402ec features a PCIe 1.1 interface and will operate on x1, x4, x8 or x16 PCIe Bus slots. Software support, critical for successful synchronous communication development, is provided through Sealevel's SeaMAC driver. HDLC/SDLC and asynchronous modes are supported, as well as certain configurations of Monosync, Bisync, and Raw modes.

The 5402ec utilizes multiprotocol electrical interface transceivers that allow the FACB-MP+4.PC1e to be compliant with EIA/TIA-530/530A, EIA/TIA-232E, EIA/TIA 485, and ITU V.35. Optional cables are available to connect RS-449, RS-530, RS-530A, V.35 and X.21 interfaces. The 5402ec is compatible with standard-height PCI Express slots.

Features & Specifications

PCI Express 4-Port RS-232, RS-422, RS-485, RS-530, RS-530A, V.35 Synchronous Serial Interface

Part: 5402ec | Model: FACB-MP+4.PCIe

Features

- Compliant with RoHS and WEEE directives
- Each port individually configurable for RS-232, RS-422, RS-485, RS- 530, RS-530A or V.35
- Z85230 Enhanced Serial Communications Controller (ESCC)
- Sustained data rates to 1.2288 Mbps
- All modem control signals implemented
- PCI Express X1 compliant
- Compatible with standard-height PCI Express slots
- Included fan-out cable terminates 100-pin SCSI-style board connector to four DB-25M connectors (Item# CA339)

Specifications

Communications Chip	DMESCC
Communications Controller	DMESCC
Electrical Interface	RS-232, RS-422, RS-485, RS-530, RS-530A, V.35
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
Host Interface(s)	PCI Express
Max Data Distance	50 feet (RS-232), 4000 feet (RS-485)
Max Sustained Data Rate	1.2288 Mbps
Operating Temperature	0°C to 70°C (32°F to 158°F)
PC Bracket	Standard Height
# of Ports	4
RoHS Compliant	Yes
Serial Connector(s)	DB25M
Storage Temperature	-50°C to 105°C (-58°F to 221°F)
V.35	Yes