Low Profile PCI Express 8-Port RS-422, RS-485 Serial Interface

Part: 7802ec | **Model:** COMM+8.422.PCIE

The 7802ec low profile PCI Express serial interface provides eight serial ports, each individually field-configurable for RS-422 or RS-485 communications. Each serial port features an ultra high-speed UART, flexible clock prescalar, and large 256-byte Tx/Rx FIFOs allowing the adapter to support the widest range of standard and non-standard baud rates exceeding 1 Mbps. These features make the 7802ec ideal for data-intensive applications that require reliable, ultra-fast throughput rates.

In RS-485 mode, the board provides automatic control of the RS-485 driver in hardware, eliminating the need for application software control. This allows the 7802ec to be used with standard serial communications applications and removes the risk of bus contention and data corruption. Additionally, RS-485 network termination, critical to robust multi-drop communication, can be selectively added to the circuit via DIP-switches.

The Sealevel SeaCOM software driver and utilities make installation and operation easy using Microsoft Windows operating systems.

The 7802ec is compatible with any low profile PCI Express slot. A standard profile bracket is also included. The board ships with a 36-inch spider-cable that terminates to eight DB9M (CA231) connectors.

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Features & Specifications
Low Profile PCI Express 8-Port RS-422, RS-485 Serial Interface

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Features

- Each port individually configurable for RS-422 or RS-485
- Ultra high-speed UART with 256-byte Tx and Rx FIFOs
- Each port supports asynchronous data rates exceeding 1 Mbps
- Bus-derived 125 MHz BRG and clock prescalar support wide range of baud rates
- RS-485 line termination, pull-up and pull-down resistors for each port are selectable via dipswitches
- RS-485 ECHO can be enabled/disabled via dipswitches
- Automatic RS-485 enable/disable in hardware
- PCI Express X1 compliant
- Compatible with low profile PCI Express slots (standard profile slots with optional bracket)
- Included 36" cable terminates to eight DB9M connectors (Item# CA231)

Specifications

Host Interface(s)	PCI Express
Communications Chip	Ultra high-speed UART
Electrical Interface	RS-422, RS-485
# of Ports	8
Board Connector	MDB68F
Cable Connector(s)	DB9M (8)
Serial Connector(s)	DB9M
Oscillator	125 MHz BRG
RoHS Compliant	Yes
PC Bracket	Low Profile, Standard Height
Max Data Distance	4000 feet
Max Data Rate	Exceeds 1 Mbps
Dimensions	4.74" (L) x 2.71" (H) w/ Gold Fingers
Operating Temperature	0°C to 70°C (32°F to 158°F)
Storage Temperature	-50°C to 105°C (-58°F to 221°F)
Output Type	SPST Form A Reed relays
Humidity Range	10 – 90% Relative Humidity, Non-Condensing