



# Low Profile PCI Express 4-Port RS-422, RS-485 Serial Interface

**Part:** 7402ec | **Model:** COMM+4.422.PCIe

The 7402ec low profile PCI Express serial interface provides four serial ports, each individually field-configurable for RS-422 or RS-485 communications. Each serial port features an ultra high-speed UART, flexible clock prescaler, 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 7402ec 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 7402ec 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.

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

The 7402ec is a PCI Express X1 board compatible with any PCI Express slot. If you have a standard size PCI Express slot, be sure to select the standard profile bracket. The board ships with a 36-inch cable that terminates to four DB9M connectors (CA200).

## Features & Specifications

### Low Profile PCI Express 4-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 FIFOs
- Supports asynchronous RS-232 data rates to 230.4 Kbps and RS-422/485 data rates exceeding 1 Mbps
- Bus-derived 125 MHz BRG and clock prescaler 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
- Included 36" cable terminates to four DB9M connectors (Item# CA200)

#### Specifications

<b>Operating Temperature</b>	0°C to 70°C (32°F to 158°F)
<b>Communications Chip</b>	Ultra high-speed UART
<b>Dimensions</b>	4.70" (L) x 2.54" (H)
<b>Electrical Interface</b>	RS-422, RS-485
<b>Humidity Range</b>	10 – 90% Relative Humidity, Non-Condensing
<b>Host Interface(s)</b>	PCI Express
<b>Max Data Distance</b>	4000 feet
<b>Max Data Rate</b>	Exceeds 1 Mbps
<b>Cable Connector(s)</b>	DB9M (4)
<b>Board Connector</b>	DB44F
<b>PC Bracket</b>	Low Profile, Standard Height
<b># of Ports</b>	4
<b>RoHS Compliant</b>	Yes
<b>Serial Connector(s)</b>	DB9M
<b>Storage Temperature</b>	-50°C to 105°C (-58°F to 221°F)
<b>Oscillator</b>	125 MHz BRG