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 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 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 compatible with any low profile PCI Express slot. A standard profile bracket is also included. 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

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

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 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
- Included 36" cable terminates to four DB9M connectors (Item# CA200)

Specifications

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