



# PCI Express 4-Port RS-232, RS-422, RS-485 Serial Interface

**Part:** 7404ec | **Model:** Ultra COMM+4.PC1e

The 7404ec PCI Express serial interface provides four multifunction serial ports, each individually field-configurable for RS-232, RS-422, or RS-485. 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 to 230.4 Kbps (RS-232) and exceeding 1 Mbps (RS-422/485).

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 7404ec 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. In RS-232 mode, all modem control signals are implemented for maximum compatibility with a variety of serial peripherals.

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

The 7404ec is a PCI Express X1 board compatible with any PCI Express slot. The board ships with a 36-inch cable that terminates to four DB9M connectors (Item CA143).

## Features & Specifications

### PCI Express 4-Port RS-232, RS-422, RS-485 Serial Interface

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#### Features

- Each port individually configurable for RS-232, RS-422, or RS-485
- Ultra high-speed UART with 256-byte Tx and Rx 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
- All modem control signals implemented in RS-232 mode
- Automatic RS-485 enable/disable in hardware
- 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
- PCI Express X1 compliant
- Compatible with all standard size PCI Express slots
- Included 36" cable terminates to four DB9M connectors (Item# CA143)

#### Specifications

<b>Board Connector</b>	DB37M
<b>Cable Connector(s)</b>	DB9M (4)
<b>Communications Chip</b>	Ultra high-speed UART
<b>Electrical Interface</b>	RS-232, 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>	50 feet (RS-232), 4000 feet (RS-485)
<b>Max Data Rate</b>	Exceeds 1 Mbps
<b>Operating Temperature</b>	0°C to 70°C (32°F to 158°F)
<b>Oscillator</b>	125 MHz BRG
<b>PC Bracket</b>	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)