



2-Port PCI Express RS-232, RS-422, RS-485 Isolated Serial Interface

Part: 7203ec | **Model:** ULTRA COMM+2i.PCIe

The Sealevel Systems, Inc. 7203ec is a two-channel isolated PCIe Bus serial I/O adapter for the PC. Utilizing an ultra-high-speed UART with its register set and industry-leading 256-byte FIFOs, it provides two field-selectable RS-232/422/485 serial ports supporting data rates up to 921.6Kbps (RS-422/485).

Configure both ports as RS232 for standard PC serial port requirements. Choose the RS-422 mode for long-distance device connections up to 4000ft, where noise immunity and high data integrity are essential. Select RS-485 and capture data from multiple peripherals in a RS485 multidrop network. Up to 31 standard RS-485 devices can be connected to each port to automate your data collection. The option to independently configure each port for RS-232, RS-422, or RS-485 provides maximum flexibility to your application. Optional Terminal Block adapters are available to simplify field-wiring connections.

Regardless of which mode the ports are used in, the 7203ec serial ports work seamlessly as standard COM ports (Windows) or serial device files (Linux).

The 7203ec will operate in x1, x4, x8, or x16 PCIe bus slots.

Features & Specifications

PCI Express 2-Port RS-232, RS-422, RS-485 Isolated Serial Interface

Part: 7203ec | **Model:** ISO COMM2.PCIe

Features

- Each port individually configurable for RS-232, RS-422, or RS-485
- Ultra High-speed UART with 256-byte TX and RX FIFOs
- Optically isolated serial ports, galvanically isolated power to the transceiver
- Supports asynchronous data rates exceeding 921.6 Kbps
- Board includes two DB9M connectors
- Compatible with all standard size PCI Express slots
- Bus-derived 125 MHZ BRG and clock prescaler support wide range of baud rates
- Transparent automatic RS-485 enable/disable (Windows), automatic RS-485 enable/disable mode (Linux)
- RS-485 line termination, pull-up and pull-down resistors, and echo for each port are selectable via dipswitches
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Specifications

Host Interface(s)	PCI Express
Communications Chip	Ultra high-speed UART
Electrical Interface	RS-232, RS-422, RS-485
Optically Isolated	Yes
# of Ports	2
Serial Connector(s)	DB9M
Max Data Rate	921.6 Kbps
PC Bracket	Standard Height
Max Data Distance	50 feet (RS-232), 4000 feet (RS-422/485)
Operating Temperature	0°C to 50°C (32°F to 122°F)
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
Storage Temperature	-40°C to 105°C (-40°F to 221°F)
Host Interface(s)	PCI Express