



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

Part: 7205ec | **Model:** Ultra COMM+2.PCIe

The 7205ec low-profile PCI Express serial interface provides two serial ports 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 exceeding 1 Mbps. These features make the 7205ec ideal for data-intensive applications that require reliable, ultra-fast throughput rates.

The electrical interface, echo suppression, and line termination are set via convenient on-board DIP switches, which can be overridden by the Windows device driver. Additionally, the Windows driver provides a software-selectable Slew Rate Limiting feature to minimize electromagnetic interference where high baud rates are not required. For rapid troubleshooting, onboard LEDs display the board heartbeat, electrical interface selection, and line termination state.

In RS-485 mode, the transmitter is automatically enabled in hardware for Windows applications, eliminating the need for software control. This allows the 7205ec to be used with standard serial communications applications and removes the risk of bus contention and data corruption. In RS-232 mode, all modem control signals are implemented for maximum compatibility with a wide range of serial peripherals.

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

The 7205ec is compatible with any low profile PCI Express slot. A standard profile bracket is also included. The 7205ec is RoHS compliant and meets the requirements of RoHS (2011/65/EU) directive.

Features & Specifications

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Features

- Compliant with RoHS and WEEE directives
- Each serial port configurable for RS-232, RS-422 or RS-485
- Electrical interface selection via on-board DIP switch with Windows device driver override
- Windows driver features software-selectable 250K slew rate limiting to minimize electromagnetic interference
- Ultra high-speed UART with 256-byte Tx and Rx FIFOs
- Supports asynchronous 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 for Windows applications
- PCI Express X1 compliant
- Compatible with low profile PCI Express slots (standard profile slots with optional bracket)
- Included 36" cable terminates to two DB-9M connectors (Item# CA203)

Specifications

Operating Temperature	0°C to 70°C (32°F to 158°F)
Storage Temperature	-50°C to 105°C (-58°F to 221°F)
Serial Connector(s)	DB9M
RoHS Compliant	Yes
# of Ports	2
PC Bracket	Low Profile
Oscillator	125 MHz BRG
Board Connector	DB25M
Cable Connector(s)	DB9M (2)
Max Data Distance	50 feet (RS-232)4000 feet (RS-485)
Host Interface(s)	PCI Express
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
Electrical Interface	RS-232, RS-422, RS-485
Dimensions	5.75 (L) x 2.54 (W)
Communications Chip	Ultra high-speed UART
Max Data Rate	Exceeds 1 Mbps