PCI Express 8-Port RS-232, RS-422, RS-485 Serial Interface

Part: 7804ec | **Model:** Ultra COMM+8.PCIE

The 7804ec PCI Express serial interface provides eight 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 prescalar, 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 7804ec 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.

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

The 7804ec is a PCI Express X1 board compatible with any standard profile PCI Express slot. The board ships with a 36-inch spider cable that terminates to eight DB9M (Item# CA145) connectors.

Features & Specifications

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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 prescalar 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 standard size PCI Express slots
- Included 36" cable terminates to eight DB9M connectors (Item# CA145)

Specifications

Host Interface(s)	PCI Express
Communications Chip	Ultra high-speed UART
Electrical Interface	RS-232, RS-422, RS-485
# of Ports	8
Board Connector	DB78F
Cable Connector(s)	DB9M (8)
Serial Connector(s)	DB9M
Oscillator	125 MHz BRG
RoHS Compliant	Yes
PC Bracket	Standard Height
Max Data Distance	50 feet (RS-232), 4000 feet (RS-485)
Max Data Rate	Exceeds 1 Mbps
Dimensions	5.27" (L) x 4.37" (H) w/ Gold Fingers
Operating Temperature	0°C to 70°C (32°F to 158°F)
Storage Temperature	-50°C to 105°C (-58°F to 221°F)
Humidity Range	10 – 90% Relative Humidity, Non-Condensing