Low Profile PCI Express 1-Port RS-232, RS-422, RS-485, RS-530 Serial Interface

Part: 7106e | **Model:** Ultra 530.LPCIe

The 7106e low-profile PCI Express serial interface provides a single serial port configurable for RS-232, RS-422, RS-485, or RS-530. The ultra-high-speed UART, flexible clock prescalar, and large 256-byte Tx/Rx FIFOs allows the adapter to support the widest range of standard and non-standard baud rates exceeding 921.6 Kbps. These features make the 7106e 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 7106e 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 7106e is a PCI Express X1 board compatible with any low profile PCI Express slot. A standard profile bracket is also included. The 7106e is RoHS compliant and meets the requirements of RoHS (2011/65/EU) directive.

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Features & Specifications

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Features

- Compliant with RoHS and WEEE directives
- Serial port configurable for RS-232, RS-422, RS-485 or RS-530
- 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 921.6K bps
- Bus-derived 125 MHz BRG and clock prescalar support wide range of baud rates
- 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)
- All modem control signals implemented in RS-232 mode
- Board includes one DB25M connector

Specifications

Communications Chip	Ultra high-speed UART
Electrical Interface	RS-232, RS-422, RS-485, RS-530
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
Host Interface(s)	PCI Express
Max Data Distance	4000 feet (RS-485)
Max Data Rate	Exceeds 921.6K bps
Operating Temperature	0°C to 70°C (32°F to 158°F)
Oscillator	125 MHz BRG
PC Bracket	Low Profile
# of Ports	1
RoHS Compliant	Yes
Serial Connector(s)	DB25M
Storage Temperature	-50°C to 105°C (-58°F to 221°F)