

PCMCIA RS-530/422/485 Card

The PC-SIO-485 card provides a single PCMCIA Async serial link to modems, terminals, printers or other data collection equipment.

- Single port Asynchronous RS-530/422/485
- Automatic RS-485 RTS enable
- Interface cable included terminates in DB-25P Connector (EIA-530 pin-out)
- Windows Auto RS-485 driver software included



3602 Ultra PC-SIO-485 (RS-530/422/485) \$220.00

USB Switching Hub



- 4 computers can share the connected USB devices with intelligent status display
- Built-in 3-port powered USB hub offers added convenience and value
- Automatic switching for supported USB printers
- LEDs for easy-to-read status displays
- Save money by sharing existing USB peripherals
- Supports UHCI and OHCI USB interface
- Dual speed: 1.5Mbps and 12Mbps

USB-403 \$145.00

USB to Serial



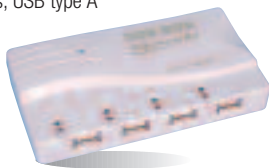
SeaLINK®-USB adapters provide a simple way to add RS-232/422/485 ports to your desktop or notebook computer. Simply install the provided software, connect to your USB port, and instantly add up to eight serial ports with a single device.

ITEM	PORTS	DESCRIPTION	PRICE
2105	1	RS-232 Adapter (DB9)	\$87.00
2101	1	RS-232 Adapter (DB25)	\$97.00
2102	1	RS-422/485/530 Adapter	\$142.00
2103	1	Isolated RS-232 Adapter	\$142.00
2104	1	Isolated RS-422/485/530 Adapter	\$151.00
2201	2	RS-232 Adapter	\$175.00
2202	2	RS-422/485 Adapter	\$205.00
2203	2	RS-232/422/485 Adapter	\$250.00
2401	4	RS-232 Adapter	\$228.00
2402	4	RS-422/485 Adapter	\$262.00
2403	4	RS-232/422/485 Adapter	\$303.00
2801	8	RS-232 Adapter	\$440.00
2802	8	RS-422/485 Adapter	\$490.00
2803	8	RS-232/422/485 Adapter	\$560.00

USB Accessories for Convenience and Speed

Four Port USB Hub

- 4 downstream ports, USB type A receptacles
- 1 upstream port, USB type B receptacle
- Power/status indicator LEDs
- Bus powered from USB host controller
- Dimensions: 4.9" x 3.8" x 1.4"



UH3304 Four-Port USB Hub CE \$28.50

Add A Serial COM Port Thru USB Port

Connect your RS-232 peripherals to your USB port with the US1000B. The USB converter supports all common RS-232 baud rates and follows standard USB and serial connectors for maximum compatibility. The US1000B requires no external power, simply plug it into an available USB port on your computer or hub, and Windows will configure the converter to be an additional COM port, compatible with your Windows application.

- Data rates: 300 to 230K+ baud
- USB connector: Type A male
- RS-232 connector: DB9M (US1000B)
- Dimensions: 2.9" x 2.8" x 1.4"
- Draws less than 100mA



US1000B Port-Powered USB to RS-232 (DB9M) Converter \$35.00

USB to RS-232 DB9 Adapter



2105 \$87.00

The 2105 USB serial I/O product provides a single USB to RS-232 serial port for providing USB connectivity to legacy or non-USB standard PC data rates up to 460K bps to provide you with the horsepower your serial I/O applications require. Simply connect the SeaLINK adapter to your USB port and the device is immediately recognized by the system as a standard COM: port.



2105 USB to RS-232 db9 adapter \$87.00

QuickConnect 5-in-1 USB Adapter Cable

Universal adapter allows ends to be changed

- Includes:
- 1 x USB "A" Male
- 1 x USB "A" Female
- 1 x Mini USB "B"
- 1 x USB "B" Male
- 1 x Mini USB "A"



QK51 Quick Connect \$18.00

2 And 5 Meter USB Cables

The USBAMB cables are fully rated USB peripheral cables. The male type A connector plugs into the back of your PC or USB hub, the male type B connector connects to the connector in any cable-less USB peripheral.

USBAMB-2M	2 Meter Type A Male to Type B Male USB Cable	\$6.50
USBAMB-5M	5 Meter Type A Male to Type B Male USB Cable	\$10.50

3 Meter USB Extension Cable

Need to extend the cable on your USB peripheral to the full 5 meter length? The USBAMAF-3M is a fully rated 3 meter USB extension cable that will plug into an existing USB cable to add three meters to its length. Your total cable length must not exceed 5 meters.

USBAMAF-3M	3 Meter Type A Male to Type A Female USB Extension Cable	\$8.00
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USB Active Extension Cable (May be cascaded to 40/80 ft.)

UC-600-2.5M	\$32.50
UC-600-5M	\$40.00

HST, PST AND GST NOT INCLUDED IN PRICES SHOWN



AlteCon
Data Communications Inc.

Phone: (905) 677-6500
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E-Mail: sales@altecon.com

Protect USB devices from dataline surges



Model USBSSP helps protect the USB port of your computer against power surges and other voltage disturbances on your USB cables. USB signals have a clamping voltage of 5.1V. The power line has a clamping voltage of 6.8V. Model USBSSP plugs into the host computer or hub. Requires no additional cables or drivers. Dimensions: 4.5 x 1.2 x 1.0 in (11.4 x 3.1 x 2.5 cm).

USBSSP	USB Surge Protector	\$45.00
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Isolated Converter connects RS-422/485 devices to your USB Port



Get the extended range and multi-drop capability of RS-422/485 from the USB port of your computer. This converter just plugs into any PC's USB port, using an optional USB A-male to B-male cable. There is no need to remove the PC cover to insert cards and use up precious ISA or PCI slots or IRQs. Windows automatically configures the output as an additional COM port, compatible with your Windows application.

2000 volt optical isolation protects laptops or workstations from dangerous spikes and surges on the network. Optical isolation converts the electrical pulse into an optical signal, then back to an electrical pulse. Spikes and surges can't cross the optical link to damage PCs. Selectable for RS-422 or 2 or 4-wire RS-485 operation. LEDs indicate traffic on TD and RD lines. The USB side connector is B-male and the RS-422/485 side connector is a terminal block for simple field installation. Dimensions: 5.0 x 2.7 x 0.9 in (12.7 x 6.9 x 2.3 cm).

USOTL4	Optically Isolated USB to RS-422/485 Converter	\$155.00
USTL4	Non-Isolated USB to RS-422/485 Converter	\$145.00

Connect an RS-232 device to a USB port with isolation protection

Similar to above, except Model USO9ML2 allows an RS-232 device to connect to a USB port or hub. Requires no PCI/ISA slots or IRQs. Simply plug the converter into an available USB port and Windows will configure the converter as an additional COM port, compatible with your Windows 98, 2000, XP and ME applications.

The converter has 2000 volt RMS of isolation to protect your PC from stray surges, spikes and ground loops. A pair of LEDs show when RS-232 data is being received or transmitted.

The serial port is DB-9 male. The USB is USB-B female. The USB bus supplies power so no separate power supply is needed. Dimensions: 3.0 x 0.9 x 1.7 in (7.7 x 2.3 x 4.3 cm).

USO9ML2	USB to RS-232 Converter w/Optical Isolation	\$155.00
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Industry's first isolated USB hub for extreme environments

Protect your PC from hazardous ground loops and surges!



B&B electronics
MANUFACTURING COMPANY

USB is intended to be a user friendly, hot plug-and-play bus for desktop applications. With the growing popularity and wide public acceptance of this protocol, USB has recently become the standard connection in the PC environment.

Extending USB to devices such as data acquisition and controls using serial, parallel, Ethernet and other communications standards is becoming more common. Most standards can now be connected to USB through bridges. These bridges extend the desktop into environments not originally foreseen for USB applications.

The added cable length and environments typical to these devices introduce conventional problems such as ground loops, spikes and surges, which can damage the devices as well as the PC.

For protection against damage from these scenarios in commercial or industrial applications, and to increase system reliability in any harsh environment, optical isolation is strongly recommended.

Model UIOSHUB4 does exactly that. It is a four port USB hub with 2500 VAC isolation between the upstream port and all the downstream ports. Both high and low speed USB peripherals are supported as well as high powered and low powered devices. This unique hub offers all the benefits of the USB technology with added safety and protection for your PC.

The attached 1 meter cable on the upstream port makes it easy to connect to your PC or an existing hub. External power supply required (not included). Dimensions: 3.8 x 5.6 x 1.2 in (9.7 x 14.1 x 2.9 cm).

UIOSHUB4	USB Optically Isolated 4 Port Hub	\$310.00
USBPS	120 VAC to 15 VDC@1.0 A Power Supply	\$18.95
USBAMB-2M	USB A-male to B-male cable, 6.6 ft (2m)	\$6.50
USBAMB-5M	USB A-male to B-male cable, 16.4 ft (5m)	\$10.50

USB to RS-232 Serial Adapter

Use your USB port for any serial device, even PDAs

Obtain high speed (230 kbps) RS-232 serial from a USB port. Use to connect USB desktops, laptops, thin clients to serial modems, scanners, POS devices and other peripherals.

Compatible with Win 95(OSR2), 98, SE, 2000, ME, CE, XP, XP Embedded, NT 4.0, NT Embedded, Linux. 1m computer-adapter cable included. DB9 male connector on RS-232 side. 2.8 x 1.8 x 0.8 in (7 x 4.4 x 2.1 cm).

- Plug and play compliant, hot swappable
- Configurable for port assignments
- Maintains assignments across rebooting
- USB 1.0, 1.1 and 2.0 compliant
- UART: 128-byte buffer in each direction
- Status reporting and user diagnostics



EDGEPORT/1
\$105.00

Look!
A bump-in-the-cable solution for serial port expansion

HST, PST AND GST NOT INCLUDED IN PRICES SHOWN

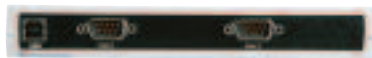
To Order: **1-800-668-3282**

Fax: 1-800-668-3900
E-Mail: sales@altecon.com

Plug-and-play com port expansion adds up to 16 serial ports to your USB computers



EDGEPORT/2-232



EDGEPORT/8



An Edgeport USB-to-Serial Adapter is an intelligent, stackable expansion unit that connects to a PC, thin client or server via the USB port. It provides two, four, eight or sixteen additional serial ports in minutes. They support serial devices, including modems, ISDN terminal adapters, printers, and point-of-sale and industrial automation applications.

All models are compatible with Win 95(OSR2), 98, SE, 2000, Me, CE, XP, XP Embedded, NT 4.0, NT Embedded, Linux. System Requirements: one available USB type A (downstream) port. 8MB RAM, 16MB recommended. No IRQ, I/O address, DMA, or memory address requirements.

Tri-state LED displays device status and COM port activity. All models are fully compatible with USB 1.0 and 1.1; with backwards compatibility to USB 2.0. Serial converters are USB powered — no additional power supply needed.

Industrial models provide USB to RS-422/RS-485 protocols, allowing extended distances and multi-drop capabilities.

Multi-interface models allow extreme flexibility in applications to meet changing needs. Serial ports, parallel ports and USB ports in various combinations are provided. Multi-interface models with Type A USB ports ship with an additional power supply to meet full USB specifications for power.

Dimensions:

- 2, 4, multi-port models: 7.2 x 4.4 x 1.0 in (18.3 x 11.1 x 2.6 cm)
- 8-port models: 7.2 x 4.4 x 1.8 in (18.3 x 11.1 x 4.5 cm)
- Edgeport/416: 17.2 x 5.0 x 1.8 in (43.7 x 12.7 x 4.5 cm)
- 1m USB cable included.

Edgeport Serial Converters

EDGEPORT/2-232	USB to 2 RS-232 serial DB9 male ports	\$170.00
EDGEPORT/4	USB to 4 RS-232 serial DB9 male ports	\$299.00
EDGEPORT/8	USB to 8 RS-232 serial DB9 male ports	\$495.00
EDGEPORT/416	USB to 16 RS-232 serial DB9 male ports, 4 USB ports, rack mountable	\$805.00

Edgeport Industrial Converters

EDGEPORT/2i	USB to 2 RS-422/485 serial DB9 male ports	\$225.00
EDGEPORT/4i	USB to 4 RS-422 serial DB9 male ports	\$295.00
EDGEPORT/4SMEI	USB to 4 RS-232/422/485 ports	\$425.00
EDGEPORT/8i	USB to 8 RS-422 serial DB9 male ports	\$560.00

Edgeport Multi-Interface Converters

EDGEPORT/21	USB to 2 RS-232 serial DB9 male ports, 1 parallel DB25 female port	\$225.00
EDGEPORT/421	USB to 4 USB ports, 2 RS-232 serial DB9 male ports, 1 parallel DB25 female port	\$245.00
301-9001-01	19" Rack Mounting Kit for above	\$95.00

Model FOST Fiber Converters

Fast, reliable extended range

These fiber optic converters provide an economical and reliable method to use fiber in your data communications system. They support RS-232/422/485 on any asynchronous serial device.

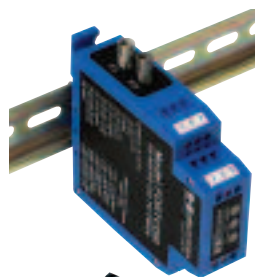
- Immune to surges, spikes and ground loops
- Range up to 4 km (2.5 miles)
- Transmit (TD) and Receive (RD) lines supported
- Automatic RS-485 Send Data Control software
- ST multi-mode fiber cable connections

Model **FOSTCDR** has a DIN rail mount and terminal block serial connections.

- DIN rail mount, terminal block serial connections
- Wide input power range of (10-30 VDC)
- Wide temperature range (-40° to 80° C)
- Data rates to 460 Kbps

Model **FOSTDRP** is a fiber-to-fiber duplex repeater. It squares off and amplifies the fiber signal, doubling its range and overcoming fiber loss and connector loss.

These models require an external power source. Optional power supplies are available.



FOSTCDR



FOSTC



FOSTDRP

Model FLST Fiber Converters

EMI/RFI transient immunity supports RTS & CTS



Transmit RS-232 data at 115.2 Kbps 4 km (2.5 miles) with port powered fiber optic converts

- Port powered, not external power required.
- Transparently communicate RS-232 at 115.2 Kbps
- Fiber is immune to surges, spikes, ground loops
- Range up to 4 km (2.5 miles)
- TD, RD, RTS and CTS supported.

Model No.	Description	Serial Connectors	MODBUS Compatible?	Power	Power Supply	Price
FOSTCDR	DIN Rail serial/fiber converter	Terminal Block	YES	10-30 VDS	PS5R-A12	\$275.00
FOSTC	Serial/fiber converter	DB25F	Yes	12 VDC	232PS3	\$165.00
FOSTDRP	Fiber Optic repeater	-	Yes	10-30VDC	232PS3	\$260.00
PS5R-A12	DIN Rail power supply, 100 to 24 VAC. 110 to 340 VDC to 12 VDC @ 7.5w					\$49.5
232PS3	120 VAC to 12 VDC @ 500 mA power supply					\$18.95

9PFLST	RS232 9-pin serial to fiber converter	\$175.00
232FLST	RS232 25-pin serial to fiber converter	\$175.00
232PS	Optional 120 VAC to 12 VDC @100 mA power supply	\$18.95

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