

## Isolated USB to 2 or 4 Port RS-422/485

Models: USOPTL4-2P & USOPTL4-4P

### Features

- ✓ Connects multiple RS-422/485 devices to your USB Port
- ✓ 2000 V RMS Port-to-Port Optical Isolation
- ✓ 15 KV ESD Surge Protection
- ✓ USB Port Powered or External Power
- ✓ Supports USB 2.0 (Backward Compatible)
- ✓ RS-422/485 Data Rates up to 921.6 kbps
- ✓ LED's to indicate data flow on RS-232 ports
- ✓ High retention USB interface ensures a reliable connection
- ✓ Removable terminal block on serial ports make wiring easy
- ✓ Automatic Configuration on Windows 98, ME, 2000, XP, and Vista

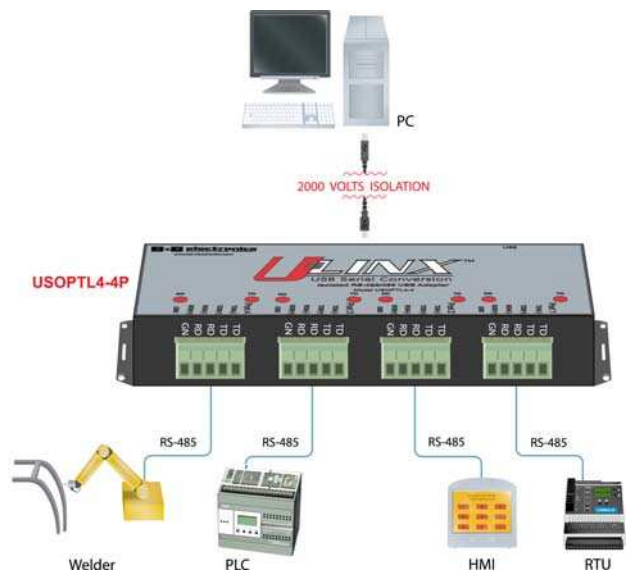


### Functional Description

Connect RS-422 and RS-485 (2-Wire and 4-Wire) devices to a USB port and gain 2000 V RMS Isolation from voltage spikes and ground loops. Universal Serial Bus (USB) has become the connectivity workhorse of today's PCs, replacing the familiar serial ports. However, many commercial and industrial devices still use the RS-422/485 interface. To connect these devices to modern PCs and provide protection from electrical transients, you need a simple and reliable conversion solution. The USOPTL4-2P and USOPTL4-4P offer this solution and are great for any application that requires long range or multi-drop capabilities. Both models offer a high retention USB interface, removable terminal blocks on the serial side and have LED's to indicate data flow. Simply plug the converter into an available USB port on your computer or USB hub and install the drivers supplied on CD ROM. The device will show up as additional COM ports in the Windows Device Manager, which are fully compatible with your Windows applications. A one meter USB cable is included.

### Ordering Information

Model Number	Description
USOPTL4-2P	Isolated USB to 2 Port RS-422/485 Converter
USOPTL4-4P	Isolated USB to 4 Port RS-422/485 Converter
Accessories	
USBAMB-3F	3 ft (1 M) USB Cable (One Included)
USBAMB-6F	2 m (6ft) USB Cable
MDR-20-24	DIN Rail Mount, 24 VDC, 1 A Power Supply
12DC1AST	DC Power supply Unregulated 12VDC@1000mA



## Specifications

### Serial Technology

RS-422/485 Connectors	Removable Terminal Blocks
RS-422/485 Data Rate	921.6 kbps (Max)
Isolation	2000 V (Port-to-Port) Optical
Surge Protection	15 KV ESD

### USB Technology

Connector	USB Type B Female, High Retention Withdrawal > 15 N
Standard	1.1 and 2.0 Compatible
Data Rate	12 Mbps

### Power

Source	USB Port or External Source
Input Voltage	5 VDC from USB Port or 10 - 30 VDC External Power Supply
Consumption	Higher Power Device (>100 mA)
	USOPTL4-2P: 3 Watts, External Power Supply
	USOPTL4-4P: 5 Watts, External Power Supply

### Software

Driver CD	Windows 98, ME, 2000, XP, Vista
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### Mechanical

Dimensions	6.5 x 1.2 x 3.1 in (16.4 x 3.0 x 8.0 cm) without Flanges
	7.5 x 1.2 x 3.1 in (19.0 x 3.0 x 8.0 cm) with Flanges
Weight	2 Port 0.75 lbs (340.2 g), 4 Port 0.80 lbs (362.9 g)

### Environmental

Operating Temp	32 to 158 °F (0 to 70 °C)
Storage Temp	-40 to 185 °F (-40 to 85 °C)
Operating Humidity	0 to 95 % (Non-condensing)
MTBF (USOPTL4-2P)	125224 hours
MTBF (USOPTL4-4P)	72749 hours
MTBF Method	Parts Count Reliability Prediction

### Regulatory

Approvals	FCC, CE, UL
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### Terminal Board Layout

TB Position	Signal Name
1	TDA(-)
2	TDB(+)
3	RDA(-)
4	RDB(+)
5	Ground

### DIP Switch Legend

Position	OFF	ON
1	RS-422	RS-485
2	Echo ON	Echo OFF
3	4-Wire	2-Wire
4	4-Wire	2-Wire
<b>Factory default = all switches off</b>		