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

Models USOPTL4-2P & USOPTL4-4P





### **PRODUCT FEATURES**

- Connect 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)
- High-Retention USB Port Connectors Ensure Reliable Connection
- RS-422/485 Data Rates Up to 921.6 kbps
- LEDs Indicate Data Flow on Serial Ports
- Removable Terminal Blocks on Serial Ports Make Wiring Easy
- Automatic Configuration Windows 2000, XP, Vista, 7(32/64 bit), 10(32/64 bit)
- · USB cable included

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 (available for download from website). 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**

USBAMBM-3F - 1 m (3 ft.) USB Cable

USBAMBM-6F - 2 m (6 ft.) USB Cable (one included)
MDR-20-24 - DIN Rail Mount, 24 VDC, 1 A Power Supply





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## Models USOPTL4-2P & USOPTL4-4P

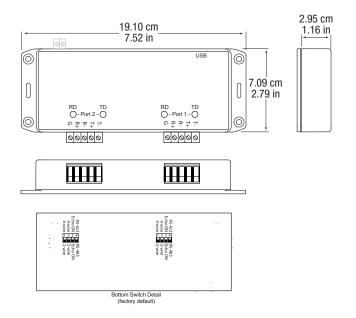


### **SPECIFICATIONS**

SPECIFICATIONS		
SERIAL TECHNOLOGY		
RS-422/485 Connectors	Removable Terminal Blocks	
RS-422/485 Data Rate	921.6 kbps (maximum)	
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		
Drivers - available on website	Windows 2000, XP, Vista, 7 (32/64 bit), 10 (32/64 bit)	
MECHANICAL		
Dimensions, with flanges	19.10L x 7.09W x 2.95H cm (7.52L x 2.79W x 1.16H in)	
Weight	2 Port: 340.2 g (0.75 lbs) 4 Port: 362.9 g (0.80 lbs)	
ENVIRONMENTAL		
Operating Temperature	0 to 70 °C (32 to 158 °F)	
Storage Temperature	-40 to 85 °C (-40 to 185 °F)	
Operating Humidity	0 to 95% (Non-condensing)	
MTBF (USOPTL4-2P)	125224 hours	
MTFB (USOPTL4-4P)	72749 hours	
MTBF Method	Parts Count Reliability Prediction	
REGULATORY		
Approvals	FCC, CE, UL	

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	
Factory default = all switches off			
TERMINAL BOARD LAYOUT			
TB Position	Signal Name		
1	TDA()		
	TDA(-)		
2	TDA(-) TDB(+)		
	. ,		
2	TDB(+)		

### **MECHANICAL DIAGRAM - USOPTL4-2P**



### **MECHANICAL DIAGRAM - USOPTL4-4P**

