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

Models USOPTL4-2P & USOPTL4-4P

B+B SMARTWORX

Powered by AD\ANTECH

www.advantech-bb.com



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)

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 (one included) USBAMBM-6F - 2 m (6 ft.) USB Cable MDR-20-24 - DIN Rail Mount, 24 VDC, 1 A Power Supply 12DC1AST - DC Power Supply, Unregulated 12VDC@1000MA

> All product specifications are subject to change without notice. USOPTL4-2P & USOPTL4-4P_4017ds



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

Models USOPTL4-2P & USOPTL4-4P



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		

.22	ON		
.22			
	RS-485		
ON	Echo OFF		
re	2-Wire		
re	2-Wire		
Factory default = all switches off			
TERMINAL BOARD LAYOUT			
al Name			
(-)			
(+)			
(-)			
(+)			
nd			
	re switches off D LAYOUT al Name (-) (+) (-) (+)		

MECHANICAL DIAGRAM - USOPTL4-2P



MECHANICAL DIAGRAM - USOPTL4-4P



B+**B** SMARTWORX Powered by AD\ANTECH

orders@advantech-bb.com

Corporate Headquarters: 707 Dayton Road, PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104 support@advantech-bb.com / European Office: Westlink Commercial Park, Oranmore Co. Galway Ireland +353 91 792444 Fax +353 91 792445