Isolated USB to 2 or 4 Port RS-232 Converter Models: USO9ML2-2P & USO9ML2-4P

Features

- ✓ Connects multiple RS-232 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)
- ✓ LED's to indicate data flow on RS-232 ports
- ✓ High retention USB interface ensures a reliable connection
- ✓ Automatic Configuration on Windows 2000, XP, Vista, 7

Functional Description

Connect legacy RS-232 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-232 interface. To connect these devices to modern PCs and provide protection from electrical transients, you need a simple and reliable conversion solution. The USO9ML2-2P and USO9ML2-4P offer this solution. 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.

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Model Num	per Description			
USO9ML2-2	P Isolated USB to 2 Port RS-232 Converter			
USO9ML2-4	Isolated USB to 4 Port RS-232 Converter			
Accessories				
USBAMBM-3	3 ft (1 M) USB Cable (One Included)			
USBAMBM-6	3F 2 m (6ft) USB Cable			
9PAMF6	2 m (6 ft) DB9 Male to DB9 Female Cable			
9PAMF10	3 m (10 ft) DB9 Male to DB9 Female Cable			
232NM9	3 m (6 ft) DB9 Female to DB9 Female Null Modem Cable			
232NM9MF1	3 m (10 ft) DB9 Male to DB9 Female Null Modem Cable			
MDR-20-24	DIN Rail Mount, 24 VDC, 1 A Power Supply			
12DC1AST DC Power supply Unregulated 12VDC@1000mA				





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

Ordering Information

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Specifications

Serial Technology				
RS-232 Configuration	DTE			
RS-232 Connector	DB9 Male (DTE)			
Data Rate	460.8 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)			
	USO9ML2-2P: 3 Watts, External Power Supply			
	USO9ML2-4P: 5 Watts, External Power Supply			
	Software			
Driver CD	Windows 2000, XP, Vista, 7			
	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 0.73 lbs (331.1 g), 4 Port 0.77 lbs (349.3 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 (USO9ML2-2P)	118245 hours			
MTFB (USO9ML2-4P)	61861 hours			
MTBF Method	Parts Count Reliability Prediction			
Regulatory				
Approvals				

Approvals

FCC, CE, UL

RS-232 Pin-out (DTE / DB9 Male)

PIN	Direction	Signal Name	
1	Input	DCD (Receive Line Signal Detector)	
2	Input	RD (Receive Data)	
3	Output	TD (Transmit Data)	
4	Output	DTR (DTE Ready)	
5	N/A	SG (Signal Ground)	
6	Input	DSR (DCE Ready)	
7	Output	RTS (Request to Send)	
8	Input	CTS (Clear to Send)	
9	Input	RI (Ring Indicator)	

