

Isolated USB/RS-232 Converters

US09ML2DR-x



Universal Serial Bus (USB) has become the connectivity workhorse of today's PCs, replacing the familiar serial port. However, many commercial and industrial devices still use serial interfaces. To connect these devices to modern PCs, you need a simple and reliable conversion solution.

The USO9ML2DR USB/RS-232 converter series offers this solution in an industrial DIN mount enclosure. Connect legacy RS-232 devices to a USB port and gain 3000 V RMS isolation from voltage spikes and ground loops.

These devices are perfect for industrial automation, SCADA, point of sale, or medical. 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.

PRODUCT FEATURES

- Connects 1 or 2 RS-232 devices to your USB port
- 3000 V RMS port-to-port optical isolation
- 15 KV ESD surge protection
- USB port powered
- RS-232 data rates up to 460.8 kbps
- LEDs indicate data flow on RS-232 ports
- High retention USB interface ensures reliable connection

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
US09ML2DR	Isolated USB to RS-232 Converter, 1 port
US09ML2DR-2	Isolated USB to RS-232 Converter, 2 port
US09ML2DR-LS	Locked Serial Number version of USO9ML2DR

ACCESSORIES

USBAMBM-3F - 1 m (3 ft.) USB cable (one included)

USBAMBM-6F - 2 m (6 ft.) USB cable

9PAMF6 - 2 m (6 ft.) DB9 male to DB9 female serial cable **9PAMF10** - 3 m (10 ft.) DB9 male to DB9 female serial cable

232NM9 - 3 m (6 ft.) DB9 female to DB9 female null modem cable 232NM9MF10 - 3 m (10 ft.) DB9 male to DB9 female null modem cable

DRPM25 - Panel mount adapter

Locked Serial Numbers Explained

We configure our single-port USB to serial converters in two ways. In standard format, each product has a unique serial number. "Locked serial" format uses the same serial number that is associated with a model type.

If your converter will always be used with the same computer, the standard serialized model is all you need. If the converter is shared among several computers, like field service laptops, the locked serial number model lets you plug and play without having to worry about matching the two.

Description	Serialized	Locked Serial Number
Every unit is assigned a unique COM port	~	-
Same type model numbers shares the same COM port	-	~
Ideal applications	Fixed Locations	Field Service

When ordering Locked Serial Number versions, add a "-LS" to the item number. Serialized and Lock Serial Number versions sell for the same price.

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SPECIFICATIONS

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SERIAL TECHNOLOGY			
RS-232	DCD, RD, TD, DTR, SG, DSR, RTS, CTS, RI		
Connector	DB9 male (DTE)		
Data Rate	Up to 460.8 Kbps (maximum)		
Isolation	3 KV port-to-port optical isolation		
Surge Protection	15 KV ESD		
USB TECHNOLOGY			
USB Compatibility	2.0 (backward compatible)		
USB Data Rate	12 Mbps		
Connector	Type B female, high retention (15 Newtons / 3.4 lbs-force withdrawal)		
Driver CD	Windows 2000, XP, Vista, 7 (32/64 bit), 8 (32/64 bit)		
POWER			
Source	USB port		
Input Voltage	5 VDC		
Consumption	Lower power device (<100 mA)		
MECHANICAL			
Dimensions	11.8 x 3.0 x 9.0 cm (4.6 x 1.2 x 3.5 in)		
Enclosure	IP30 plastic case		
ENVIRONMENTAL			
Operating Temperature	0 to 70°C (32 to 158°F)		
Operating Humidity	0 to 95% non-condensing		
	110 0101		
MTBF US09ML2x	118,048 hours		

APPROVALS / CERTIFICATIONS				
Emissions	FCC Class B, CISPR CI	ass B (EN55022:2006)		
CE	EN 61000-6-1: 2007	Generic Standards for Residential, Commercial and Light-Industrial Environments		
	EN 61000-4-2: 2009	Electro-Static Discharge (ESD)		
	EN 61000-4-3: 2006	+A1 +A2 +IS1 Radiated Field Immunity (RFI)		
	EN 61000-4-4: 2012	Electrical Fast Transients-Burst Immunity (EFT)		
	EN 61000-4-6: 2009	Conducted Immunity		
INFORMATION – FCC RULES				
This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference that may cause undesired operation.				

MECHANICAL DIAGRAM - USO9ML2DR

