

# USB to RS-232 Converter With Isolation

Models USO9ML2, USO9ML2-LS

**B+B SMARTWORX**

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**ADVANTECH**

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## PRODUCT FEATURES

- 2 kV Isolation
- ESD Protection - 4 kV Contact, 8 kV Air
- Compact In-Line Case
- USB 2.0 Full Speed Compatible (12 Mbps)
- RS-232 Data Rates Up to 460.8 kbps
- USB Bus Powered
- Locked Serial Number Option

This compact, isolated USB to RS-232 converter allows you to add an RS-232 port to your USB only PC. Built to rugged specifications with 2 kV of isolation, it will protect your PC from hazardous ground loops. The compact size makes it perfect for field service use but, it is also suitable for instrumentation and laboratory applications. Full speed (12 Mbps) USB 2.0 support allows connectivity with modern computer technology.

The RS-232 port is a DB9 male connector wired as a DTE with full hardware handshake support. It can handle standard RS-232 data rates up to 460.8 kbps.

Includes USB cable and a driver disk. Drivers support Windows platforms up to Windows 8 and 10 in 32 and 64 bit implementations.

## ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
<b>USO9ML2</b>	USB to Isolated RS-232 Converter
<b>USO9ML2-LS</b>	USB to Isolated RS-232 Converter - Locked Serial Number version of USO9ML2

## ACCESSORIES - optional

**USBAMB-3F** - 3 foot (1M) Type A Male to Type B Male (gray)

## 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.

All product specifications are subject to change without notice.  
pn#5514-rev006\_USO9ML2 & USO9ML2-LS\_3417ds

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## SPECIFICATIONS

SERIAL TECHNOLOGY	
RS-232	TD, RD, RTS, CTS, DTR, DSR, DCD, GND
Connector	DB9 Male
Data Rate	460.8 kbps
Isolation	2 kV
USB TECHNOLOGY	
USB Compatibility	1.1 and 2.0 (at full speed)
Speed	12 Mbps (full)
Connector	Type B
Operating System	Windows 2000, XP (32/64 bit), Vista (32/64 bit), 7 (32/64 bit), 8 (32/64 bit), 10 (32/64 bit), 2003 & 2008 Server (32/64 bit)
POWER	
Source	USB Bus Powered
Power Consumption	Low Power Device (Less than 100 mA)
INDICATORS	
TD / RD (RS-232)	Red LED
MECHANICAL	
Dimensions	7.7 x 4.3 x 2.3 cm (3.0 x 1.7 x 0.9 in)
Enclosure	IP 30, Plastic
Weight	6.4 oz (0.18 kg)
MTBF	247713 hours
MTBF Calc. Method	MIL 217F Parts Count Reliability
ENVIRONMENTAL	
Operating Temperature	0 to 70°C
Storage Temperature	-40 to 85°C
Operating Humidity	0 to 95% Non-condensing

APPROVALS / CERTIFICATIONS	
2004/108/EC	Electromagnetic Compatibility Directive
2011/65/EU	Reduction of Hazardous Substances Directive
EN55022: Class B	Information technology equipment - RF Emissions
EN55024	Information technology equipment - Immunity
EN 6100-6-1	Generic Standards for Residential, Commercial and Light-Industrial Environments
EN61000-4-2	ESD Immunity
EN61000-4-3: +A2	Radiated Immunity
EN61000-4-4	EFT/Burst Immunity
EN61000-4-6	RF Conducted Immunity

## MECHANICAL DIAGRAM

