B+B SMARTWORX®

USB to RS-232 Converter With Isolation

US09ML2

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

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 two kilovolts 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 great 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.

Each unit comes with 1 meter USB cable and a driver disk. Drivers support Windows platforms up to Windows 8 in 32 and 64 bit implementations.

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION
US09ML2	USB to Isolated RS-232 Converter
US09ML2-LS	USB to Isolated RS-232 Converter Locked Serial Number version of US09ML2

ACCESSORIES

USBAMBM-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.

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), Windows 7 (32/64 bit), 8 (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	247,713 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		
Emissions	EN 55022: 2010 + AC:2011 Class B Emissions	
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

MECHANICAL DIAGRAM
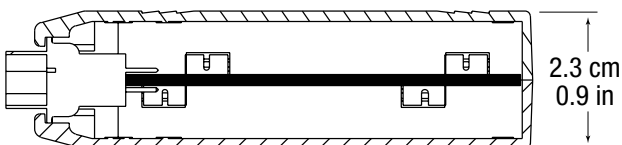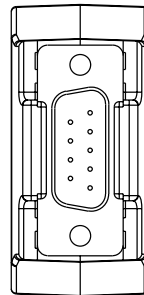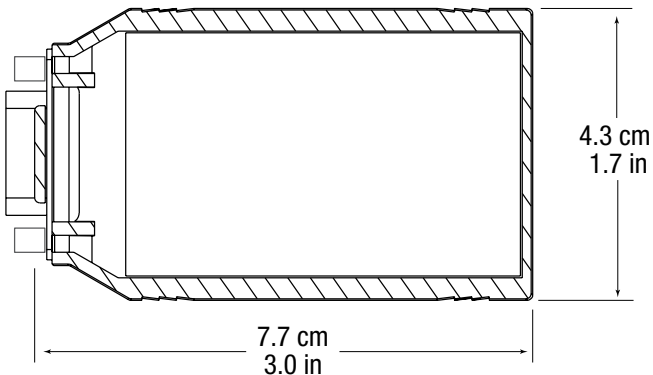
www.L-TronDirect.com

800-830-9523

info@L-Tron.com

596 Fishers Station Dr | Victor, NY | 14564 | Suite 1 A

www.L-Tron.com

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