

USO9ML2

USB to RS-232 Converter With Isolation

- ✓ 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 (see diagram). 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 7 in 32 and 64 bit implementations.

The converter comes in two formats - Standard and "Locked Serial Number." With the standard format, each unit has a unique USB serial number. The "Locked Serial Number" format uses the same USB serial number for all units with the same model number. The version you select depends on your application. **Standard** - every unit is assigned a unique COM port and a driver must be installed for each unit, ideal application: fixed locations. **Locked Serial Number** - Units with the same model number shares the same COM port. The driver only needs to be installed once for each model number. Ideal application: field service.

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) 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
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Mechanical

Dimensions	3.0 x 1.7 x 0.9 in (77 x 43 x 23 mm)
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

Ordering Information

USO9ML2	USB to Isolated RS-232 Converter
USO9ML2-LS	USB to Isolated RS-232 Converter "Locked Serial Number".

Approvals / Certifications			
Emissions	FCC Class B, CISPR Class B (EN55022:2006)		
CE	EN61000-6-1:2007	(Light Industrial)	
	EN61000-4-2:2008	(ESD)	+/-4kV Contact, +/-8kV Air
	EN61000-4-3:2006	(RI)	3V/m, 80-1000MHz; 1V/m, 1.3 to 2.7 GHz
	EN61000-4-4:2004	(EFT Burst)	+/-1kV signal ports
	EN61000-4-6:2005	(CI)	3 VRMS, 0.15 to 80 MHz

