



**mUSB232**



**mUSB485**

## USB Converter

**mUSB232**

**mUSB485**

The mUSB232 & mUSB485 is a family of communication devices. The models provide a simple method of adapting Industrial and commercial serial devices with RS232/485 interface to modern USB ports. Each media converter contains a small electronic circuit board mounted inside a rugged plastic enclosure capable of withstanding industrial temperature ranges. The integrated electronics also include RS232/RS485 level shifters and Tx/Rx LEDs to provide a visual indication of data traffic through the media converter.

The Cable incorporates a standard USB-A device connector for connection to an upstream host or hub port. RS232-level signals, including modem handshake signals, are available on an industry standard DE-9P connector cable. The RS232-level data rate range is 300 baud to 1 M baud.

The media converter cable requires USB device drivers, available free in CD supplied with media converter, which is used to make the media converter appear as a Virtual COM Port (VCP). This allows existing serial communications software, such as HyperTerminal, to exchange data through the media converter to industrial RS232/RS485 peripheral devices.

### Features

- USB Port powered
- Small to fit in laptop bag
- Supports Microsoft Windows® WHQL-certified, Mac OS X, Linux and Windows CE device drivers
- USB 2.0 or higher compatible port
- Baud Rate Supports: Max 1 Mbps

### USB to RS232 Converter

- Convert the signals to RS232
- Port: 9 PIN DB Male connector
- Output - RS232 full Handshaking

### USB to RS485 Converter

- Convert the signals to RS485 level
- Outputs: D + / D -
- Maximum 32 nodes
- 120E Termination Resistor selection

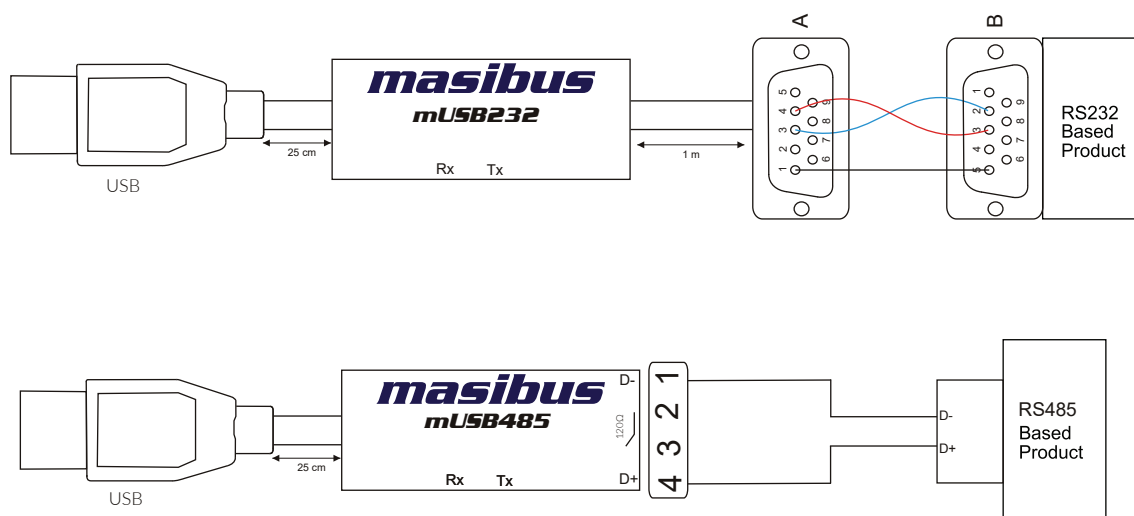
### Applications

- Media converter
- Data Acquisition System
- Field Service Application

# TECHNICAL SPECIFICATIONS

RS232		Indication	
RS232 data signals	TxD, RxD, RTS, CTS, DSR, DTR, DCD, RI, GND	Indication	Rx & Tx traffic LED Indication on media converter
Serial port speed	300 Baud to 1M Baud	<b>Driver Support</b>	
Connector	9 PIN DB Male Connector	Driver Support	Microsoft Windows® WHQL-certified, Mac OS X, Linux and Windows CE device drivers
Serial Communication parameters	Parity: None, Even, Odd	<b>Power</b>	
	Data bits: 7, 8	Power	5VDC on USB port. No external power media converter required
	Flow control: RTS/CTS, DSR/DTR	Current Consumption	20mA (Typ), 50mA (Max)
	X-ON/OFF, None	<b>Physical</b>	
Stop bits: 1, 2	Module Dimension in mm (Excluding connector & cable)	12.5 (H) X 24 (W) X 50 (L)	
Cable	1 meter	<b>Environmental</b>	
RS485		Operating Temperature	-20°C to 80°C
RS485 data signals	D+ & D- (Selectable Internal 120Ω Termination Resistor)	Humidity	30-95% RH non-condensing
Baud Rate	Max 1 Mbps		
USB			
USB Full speed	12 Mbps on USB version 1.0/2.0 or Higher		
Connector	USB Type A Male		
Standard	2.0 (Backward Compatible)		
FIFO	256 byte transmit buffer, 256 byte receive buffer		

## Connection Details



## Ordering Code

Model	Description
<b>mUSB232</b>	USB - RS232 Converter
<b>mUSB485</b>	USB - RS485 Converter

## Accessory

USB device driver CD