

# Multi-1/USB



## » Features

- 1 Port USB to Serial Converter
- Supports USB 2.0 Full-Speed
- RS-232 or RS-422/485(Combo) Interface: 1 port
- Maximum Communication Speed: 921.6kbps
- Display Communication Status through TX/ RX LED
- Auto Toggling: Automatic control I/O of the Bus for RS-422/485
- Slew-rate Limit Control
- 15kV Surge Protection

## Overview

Easily and quickly add additional serial ports to your system through the USB port. The Multi-1/USB delivers maximum performance up to 921.6kbps. It has all the necessary components for the serial communication that the developers do not require additional components to design the product. The USB to Serial Multi-ports support most Windows and Linux operating systems and include 15,000 volt surge suppression eliminating blown ports. There are RS-232 and RS-422/485 (Combo) models with DE-09 connector. Simply plug in the USB connector and you have a COM port to connect modems, printers, bar-code scanners or other any serial devices

### Auto Toggling

The Multi-1/USB has a built-in hardware feature that performs automatic toggling to prevent devices from sending data at the same time causing a crash. This operation is crucial when multiple devices are connected to prevent electrical collisions that lead to errors and unstable communication.

### Slew-Rate Limit Control

The Multi-1/USB is equipped with Slew Rate limit control for RS-422/485 interface and when enabled it minimizes EMI emissions which may cause data transmission errors. When Slew Rate is used maximum communication speed is 250kbps. This function is recommended in many medical applications.

## Specification

### USB Bus Interface

Specification	USB Specification Rev. 2.0 Full-Speed
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### Serial

Interface	RS-232, RS-422/485 (Combo)
Number of Ports	1
Maximum Speed	921.6kbps
Signal Lines	RS-232: TXD, RXD, DTR, DSR, RTS, CTS, DCD, GND, RI RS-422: TXD+, TXD-, RXD+, RXD- RS-485: TRXD+, TRXD-
Surge Protection	Built-in ESD Protection: ±15kV
Flow Control	RTS/CTS, XON/XOFF
Data Crash Prevention	Auto Toggling

### Hardware

Controller	FT232R
Connector	DE-09P (DB9 Male)

### Software

Supported OS	Windows 7 / 2008 / 8.1 / 10/ 2012 Linux
Utility	TestView

## Operating Environment

Operating Temperature	0 ~ 50 °C
Storing Temperature	-20 ~ 70 °C
Humidity	5 ~ 95% Non-Condensing

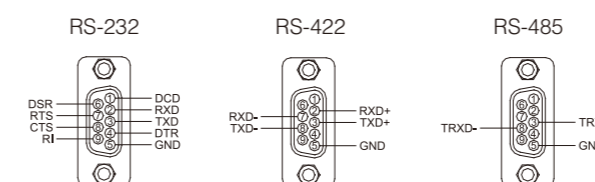
## Certifications

KC, CE, FCC
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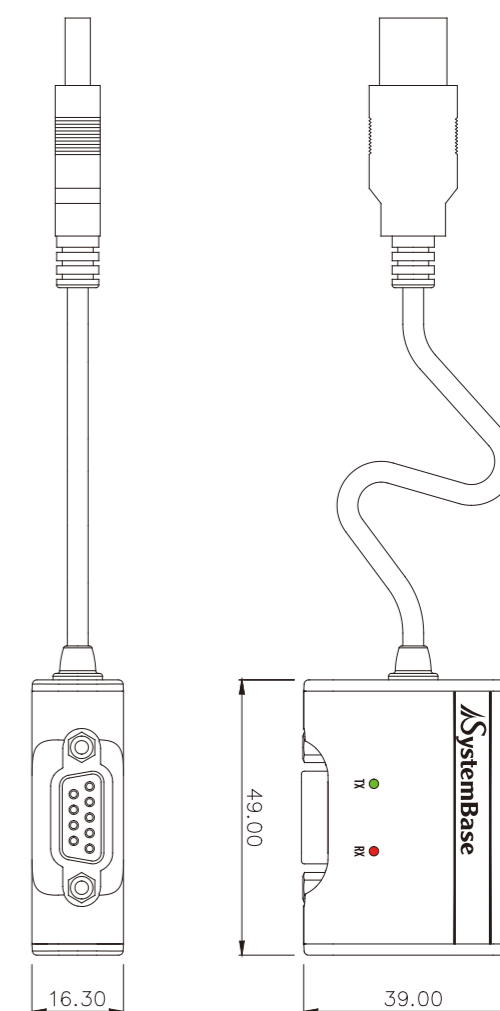
## Ordering Information

Multi-1/USB RS-232	Multi-1/USB RS-232, Driver and Manual CD
Multi-1/USB Combo	Multi-1/USB Combo(RS-422/RS-485), Driver and Manual CD
Multi-1/micro USB Combo (Micro USB Type B)	Multi-1/micro USB DE9 Male RS-232, Driver and Manual CD

## Pin Assignment



## Dimension



unit : mm

Sales : marketing@sysbas.com  
Technical Support : www.solvlne.com