3onedata
Reliable Connections



USB8485I

Desktop Mounting

USB to 8 RS-485/422 Isolated Interface Converter

- Supports bilateral switching of data between 1 USB interface and 8 RS-485/422 serial ports
- Low CPU utilization during usage, stable performance
- Autotunning of serial port signal rate, baud rate of serial port 300bps~115200bps
- Serial port supports 15kV electrostatic protection, 2kVAC isolation protection
- Supports 9VDC power supply input
- Supports -40～75℃ wide temperature operation

Introduction

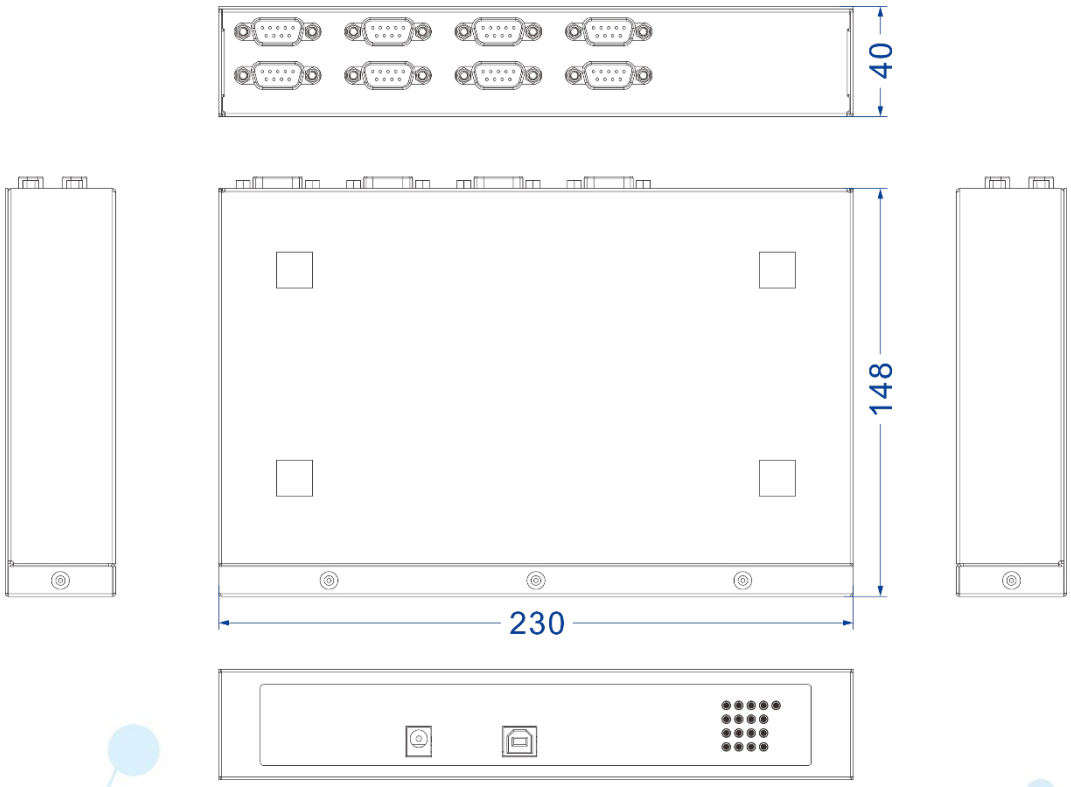
USB8485I is a USB to RS-485/422 isolated interface converter, which can achieve bilateral switching of data between USB interface and 8 RS-485/422 serial ports. The product supports 1 USB interface and 8 RS-485/422 serial ports. Serial port is equipped with 15kV electrostatic protection and 2kVAC isolation protection, which can effectively protect the device from damage. It adopts desktop mounting to meet the requirements of different application fields.

The product provides matched driver program software; USB interface connected to PC will make up a serial COM port in the computer system. PC host can simultaneously communicate with RS-485/422 serial devices via virtual COM port.

Hardware adopts fanless, low power consumption, wide temperature design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It can be widely used in PLC, Industrial Automatic Control, IC Card Toll Collection System, and Data Acquisition Control System, etc.

Dimension

Unit:mm



Specification

Serial Port	Standard: EIA RS-485, RS-422 Quantity of serial port: 8 RS-485/422 serial ports RS-485 signal: D+, D-, GND RS-422 signal: T+, T-, GND, R+, R- Baud rate: 300bps~115200bps Data bit: 7bit, 8bit Stop bit: 1bit, 2bit Parity bit: None, Even, Odd, Space, Mark Interface form: DB9, Male (DB9M to 5-pin terminal blocks with additional purchase) Transmission distance: 1200m Directional control: RS-485 direction adopts ADDC (Automatic Data Direction Control) technology Load capacity: RS-485/422 end supports 32-point polling environment Interface protection: 15kV electrostatic protection, 2kVAC isolation protection
USB	Standard: USB 1.1, USB 2.0 Quantity of interfaces: 1 USB interface USB signal: VCC, DATA+, DATA-, GND Transmission rate: high speed 480Mbps, full speed 12Mbps Interface form: USB B-type socket, Female Transmission distance: 5m
Operating System	Windows 2000/XP/Server 2003/Server 2008/Vista, Windows XP embedded, Windows CE 4.2/5.0/5.2/6.0, Linux (above version 2.4), MAC OS-X
Indicator	Power supply indicator, serial port data sending/receiving indicator
Power Requirements	9VDC, adopts DC round head
Power Consumption	No-load: 1.64W@9VDC Full-load: 2.13W@9VDC
Environmental Limits	Operating temperature: -40~75℃ Storage temperature: -40~85℃ Relative humidity: 5%~95% (no condensation)
Physical Characteristics	Housing: metal, IP30 protection grade

	Installation: desktop mounting Dimension (W x H x D): 230mm×40mm×148mm Weight: 1.01kg
Certifications	CE, FCC, RoHS
Industrial Standards	IEC 61000-4-2 (ESD, Electrostatic discharge), Level 4 ● Air discharge: ±15kV ● Contact discharge: ±8kV Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Warranty	3 years

Ordering Information

Available Models	USB	RS-485/422 (with isolation)	Power Supply Range
USB8485I	1	8	9VDC

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