

USB8485I Series

User manual

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[Summarize]

USB8485I is a kind of USB to 8 port RS485/422 converter, the USB8485I can let PC or work station's USB port connect 8pcs RS-485 or RS-422 comfortable. USB8485I provides four RS-485/422 serial ports, is compliant with USB 1.1 and 2.0 specifications, and meet the 480Mbps high-speed requirement of Hi-Speed USB 2.0. Using your computer's USB ports to connect serial devices reduces the total cost of ownership, investment in hardware, and long term management and integration costs.

Packing List

The first time use this product, please check the packaging is intact or not and the attachment is complete or not at first

- USB8485I or USB8485I-P (100/240VAC) x1
- AM type USB to BM type USB cable x1
- 9V/0.5A power adapter x1 or AC power cable x1
- User manual x1
- CD x1
- Certificate x1
- Warranty card x1

If you find that the device is damaged or any parts of it is missing during transportation, please notify the Company or the Company's distributor, we will give you proper solution as soon as possible.

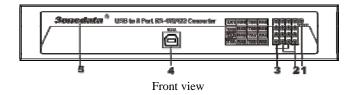
Features

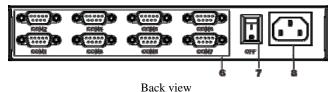
- Use USB extend 8 port RS485/422 ports
- CPU occupancy rate very low, high performance
- One RS-485/422 can establish at most 32 nodes
- RS-485/422 side transfer distance 1200m
- RS485/422 support 2KVAC isolation

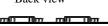
- Detect serial speed automatic, Speed: 300~115200bps
- Industrial design, IP30 protection grade
- No fan, low consumption design
- Storage temperature: $-40^{\circ}C \sim 85^{\circ}C$;
- Relative humidity:5%-95%

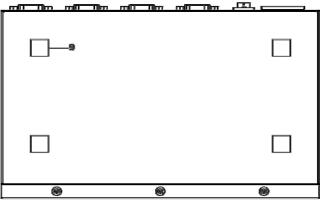
[Panel design]

USB8485I-P (100/240VAC):











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1.Power LED indicator

- 2.COM1~COM8 receive data statue indicator
- 3.COM1~COM8 transmit data statue indicator

4.B type USB female port

5.Company name, product line identification

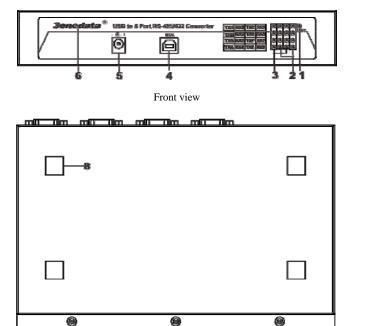
6.Serial port COM1~COM8

7.Power switch

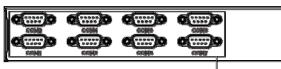
8.AC power 3-PIN Jack

9.Mat place

USB8485I:



Bottom view



Back view

1.Power LED indicator
2.COM1~COM8 receive data statue indicator
3.COM1~COM8 transmit data statue indicator

4.B type USB female port

5.DC power input interface

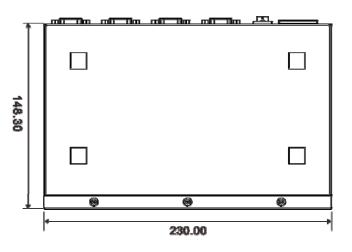
6.Company name, product line identification

7.Serial port COM1~COM8

8.Mat place

[Dimensions]

Unit (mm)





[PIN define]

USB8485I serial converter RS-485/422 side adopts DB9 male, USB port adopts B type USB female, the PIN define is as follows:

DB9:



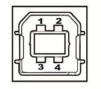
DB9F (female, hole)

DB9M (mal, needle)

RS-485 (DB9M)	1	D-
	2	D+
	5	GND
RS-422 (DB9M)	1	T-
	2	T+
	3	R+
	4	R-
	5	GND

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USB:





USB B type female

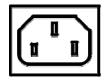
emale USB B type male

	1	VCC
B type USB	2	D-
female	3	D+
	4	GND

[Power input] USB8485I:



The lower panel of USB8485I provides access port of DC power, wherein the power input is 9VDC. Recommend to use the power adapter of DC head specification with 2.5mm inner diameter and 5.5mm outer diameter, 11cm length. USB8485I -P (100/240VAC):



power plug, power input range: $100 \sim 240$ VAC.

[Power switch]



USB8485I-P (100/240VAC) back panel provide 1 boat type power switch, if OFF, power is closed, otherwise, it is opened [USB cable]





USB8485I provided 1 USB port, it localed in front panel, it can connect to PC with USB cable and make the driver loading and installation

[LED Indicator]

The LED indicator's monitoring working state of USB8485 can fully simplify resolution of fault. Detailed states of each indicator are shown in the following table:

System statues LED			
LED	Statue	Description	
PWR	ON	Power connection regular	
	OFF	No power connection or unwonted	
TX1~TX8	OFF	No data transmitted or unwonted	
	ON	Data transmitted unwonted	
	Blinking	In receiving data	
RX1~RX8 ON Blinkin	OFF	No data received or unwonted	
	ON	Data received unwonted	
	Blinking	In receiving data	

Typical application



USB8485I-P(100/240VAC) back panel provide 220VAC 3-pin

[Specification]

Parameter

Serial port: 8 port RS-485/422 RS-422 signal: T+,T-,R+,R-RS-485 signal: D+,D-Parity: None, Even, Odd, Space, Mark Data: 7bit.8bit Stop bit: 1bit,2bit Band rate: 300bps~115200bps Direction: ADDC, auto detect direction control Loading: RS-485/422 support 32 nodes Protection: 2KVAC isolation, grade 4 static protection Distance: RS-485/422 side: 1200m, USB side less than 5m Interface USB port: USB female, type B RS-485/422 port: DB9 male (attached DB female terminal block) LED indicator Power indicator: PWR 8 port RS485/422 COM1~COM8 send data: TX1~TX8 8 port RS485/422 COM1~COM8 receive data: RX1~RX8 **Power supply** USB8485I, Power input: 9VDC USB8485I-P(100-240VAC): 220VAC(100~240VAC) USB8485I

No-load power consumption: 1.63W@9VDC Full-load power consumption: 2.13W@9VDC USB485I-P(100/240VAC) No-load power consumption: 2.3W@220VAC Full-load power consumption: 4.5W@220VAC Mechanical: Shell: IP30, high strength iron shell. Weight: 1011g Dimension(L×W×H):230mm×148.3mm×40mm Environmental Working temperature: -40~85°C Storage temperature: -40~85°C Ambient Relative Humidity: 10 to 95% (non-condensing) Standard EMS: EN61000-4-2 (ESD), Level 4 Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6 Warranty: Warranty time: 5 years Certification: CE, FCC, RoHS, UL508(Pending)