3onedata
Make network communication more reliable

USB4485 Interface Converter Quick Installation Guide

3onedata Co., Ltd.

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Xili, Nanshan District, Shenzhen

Website: www.3onedata.com

Tel: +86 0755-26702688

Fax: +86 0755-26703485

【Package Checklist】

Please check whether the package and accessories are intact while using the device for the first time.

1. Interface converter
2. 5VDC Power adapter
3. Warranty card
4 Certification

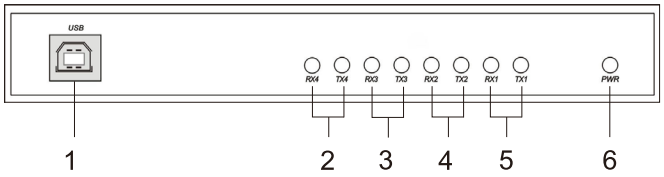
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

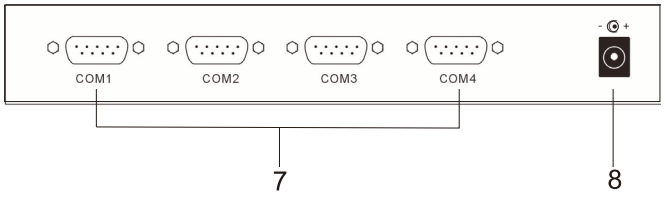
The product is an interface converter for data exchange between USB and RS-485/422, model is USB4485 (1 USB port + 4 RS-485/422 serial ports + 1 5VDC power supply).

【Panel Design】

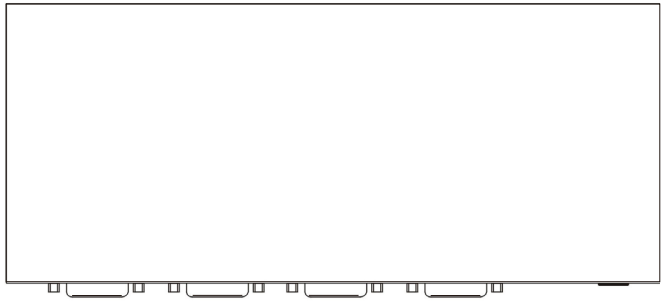
➢ **Front View**



➢ **Rear View**



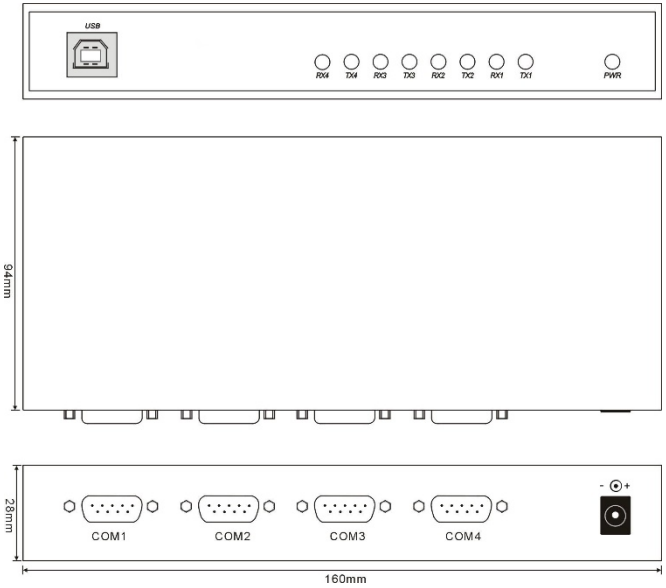
➢ **Top view**



1. USB Type-B (Female)
2. Serial port 4 data receiving&transmitting indicator
3. Serial port 3 data receiving&transmitting indicator
4. Serial port 2 data receiving&transmitting indicator
5. Serial port 1 data receiving&transmitting indicator
6. Power supply indicator PWR
7. DB9 RS-485/422 terminal blocks (COM1-COM4)
8. Power input terminal (5VDC)

【Mounting Dimension】

Unit: mm



Notice Before Mounting:

- Don't place or install the device in area near water or moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.
- The device surface temperature is high after running; please don't directly contact to avoid scalding.

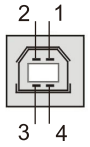
Notice Before Power on:

- Power ON operation: First insert the power supply terminal block into the device power supply interface, then plug the power supply plug contact and power on.
- Power OFF operation: First, remove the power plug, then remove the wiring section of terminal block. Please pay attention to the above operation sequence.

【Power Supply Connection】

➢ **USB Power Input**

The front panel of the device provides 1 USB storage port, adopting Type-B connection mode.



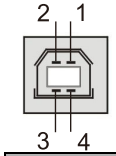
As shown in the figure, PIN 1 supports 5VDC power input.

➢ **5VDC power supply input**



External power supply supports 5DC power input and adopts DC round head, whose inside is positive and outside is negative.

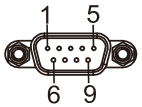
【USB Interface】



The front panel of the device provides 1 USB storage port, the plug is Type-B female. PIN 1 supports 5VD power input. The pin definitions of USB interface are shown as follows:

PIN	1	2	3	4
Definition	VBUS	D-	D+	GND
Note	Power supply +5VDC	D-	D+	Signal ground

【Serial Port】



The device provides 4 RS-485/422 serial ports, and the interface adopts DB9 male.
The pin definitions are shown as follows:

PIN	1	2	3	4	5
RS-485	D-	D+	—	—	GND
RS-422	T-	T+	R+	R-	GND

【Checking LED Indicator】

The monitoring working status of the LED indicator of the device can comprehensively simplify the solution of faults. The detailed status of each indicator is shown in the following table:

LED	Indicate	Description
PWR	ON	Power supply is connected and running normally
	OFF	PWR is disconnected or running abnormally
TX（1-4）	OFF	No data or abnormal data is being transmitted through serial port.
	ON	Serial port is transmitting data abnormally or transmitting a large amount of data.
	Blinking	Serial port is transmitting data
RX（1-4）	OFF	No data or abnormal data is being received through serial port.
	ON	Serial port is receiving data abnormally or receiving a large amount of data.
	Blinking	Serial port is receiving data

【Specification】

Panel	
RS-485/422	4 RS-485/422 serial ports, the interface adopts DB9 male terminal blocks
USB interface	USB Type-B, Female
Indicator	Serial port receiving data indicator, serial port transmission data indicator, power indicator
Power Supply	
Input power supply	USB interface or external 5VDC power supply, and the two power supplies can work together
Access terminal blocks	5DC power supply adopts DC round head, whose inside is positive and outside is negative.
Power Consumption	
Power	300mA
Working Environment	
Working temperature	-20~60℃
Storage temperature	-40~85℃
Working humidity	5%～95%(no condensation)
Protection grade	IP30(metal shell)