



USB TO RS232 - RS485 – TTL Industrial Isolated Converter



Description:

FT232RL/CH343G USB TO RS232/485/TTL Interface Converter, Industrial Isolation

Features:

1. Adopt original FT232RL or CH343G inside, fast communicating, stable and reliable, better compatibility.
2. Onboard unibody power supply isolation, provides stable isolated voltage, needs no extra power supply for the isolated terminal.
3. Onboard unibody digital isolation, allows signal isolation, high reliability, strong anti-interference, low power consumption.
4. Onboard TVS (Transient Voltage Suppressor), effectively suppress surge voltage and transient spike voltage in the circuit, lightning proof & ESD protection.
5. Onboard self-recovery fuse and protection diodes, ensures the current/voltage stable outputs, provides over-current/over-voltage proof, improves shock proof performance.
6. A fully automatic transceiver circuit with no delay, ensures the USB port communicates with different interfaces fast and stably, without interfering each other.
7. Onboard TTL serial 3.3V/5V voltage translator, config the TTL level via switch.

8. Aluminium alloy enclosure with sand blasting and anodic oxidation, CNC process opening, solid and durable.
9. 3 LEDs for indicating the power and transceiver status.
10. High quality USB-B and RS232 connectors, smoothly plug/pull.

Specifications:

1. PRODUCT TYPE: Industrial grade digital isolated converter
2. USB:
 - Operating voltage: 5V
 - Connector: USB-B
 - Protection: 200mA self-recovery fuse, ESD protection
3. RS232:
 - Connector: DB9 male
 - Protection: TVS diode, surge protection & ESD protection
 - Transmission mode: Point-to-point
 - Baud rate:
 - FT232RL: 300bps ~ 921600 bps
 - CH343G: up to 600000 bps (not full band)
4. RS485:
 - Connector: Screw terminal
 - Pins: A+, B-, GND
 - Direction control: Hardware automatically discriminates and controls the direction of data transmission
 - Protection: 600W lightning proof and surge-suppress, 15KV ESD protection (reserved 120R balancing resistor solder pads
 - Transmission mode: Point-to-multipoint (up to 32 nodes, it is recommended to use repeaters for 16 nodes or more)

- Baud rate:

-- FT232RL: 300bps ~ 2 Mbps

-- CH343G: up to 2 Mbps (not full band)

5. LED INDICATORS:

- PWR: Red power indicator, light up when there is USB connection and voltage is detected

- TXD: Red TX indicator, light up when the USB port sends data

- RXD: Red RX indicator, light up when the device ports send data back.

6. OPERATING ENVIRONMENT:

- Temperature: -15 ~ 70 Degree C

- Humidity: 5%RH ~ 95%RH

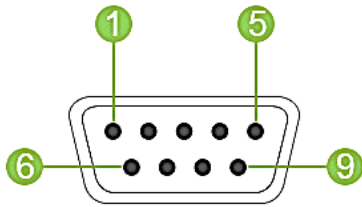
7. OPERATING SYSTEM: Mac, Linux, Android, WinCE, Windows 11 / 10 / 8.1 / 8 / 7

Multi-Protocol & Multi-Type Conversion:



Note: * only one of the RS232, RS485, and TTL can be converted to USB at the same time;
And RS232, RS485, and TTL cannot be converted between each other.

Pin Description:



RS232 pinout

RS232 pinout	
DB9 Male (PIN)	Description
2	Receiving data (RXD)
3	Sending data (TXD)
5	Ground GND
1, 4, 6, 7, 8, 9	N/C

Working Status Indicators:

Onboard 3 LEDs For Indicating the Power and Transceiver Status-



1	2	3
PWR: Lights up Red Power Connected	TXD: Blinking Green Data Transmitting	RXD: Blinking Blue Data Receiving

Outline Dimensions:

