









Interface / Expansion / Power, USB TO RS232 / RS485 / UART/ CAN

Industrial Isolated USB To 4-Ch RS232 Converter, USB To Serial Adapter, Original FT4232HL Chip, Mac / Linux / Android / Windows Multi-OS Compatible

SKU 27022

Part No. USB TO 4CH RS232 (F)

Brand Waveshare

\$32.99

ADD TO CART

Price

Quantity Contact

\$32.39	2+
\$32.09	3+
\$31.97	4+
Version Options	
RS232 Male Port RS232 Female Port	

DESCRIPTION

PACKAGE CONTENT

Industrial Isolated USB To 4-Ch RS232 Converter, USB To Serial Adapter, Original FT4232HL Chip, Mac / Linux / Android / Windows Multi-OS Compatible, Wall-Mount Support

Industrial Isolated USB Converter

USB To 4-Ch RS232

FT4232HL | Stable Transmission | Multiple Devices Applicable | Multi-OS Compatible



Features At A Glance

- Adopts original FT4232HL chip, fast communicating, stable and reliable, better compatibility
- Supports USB to 4-ch isolated RS232, convenient for expanding multiple RS232 industrial serial devices
- Onboard unibody power supply isolation, provides stable isolated voltage

- Onboard unibody digital isolation, allows signal isolation, high reliability, strong anti-interference, low power consumption
- Onboard TVS (Transient Voltage Suppressor),
 effectively suppress surge voltage and transient spike
 voltage in the circuit, lightningproof & ESD protection
- Onboard self-recovery fuse and protection diodes, ensure the current/voltage stable outputs, provide over-current/over-voltage proof, improve shock proof performance
- Onboard power supply screw terminal, allows
 5V~36V DC wide range input
- 9 LEDs for indicating the power and transceiver status
- Aluminum alloy enclosure with sand blasting and anodic oxidation, solid and durable

Version Options



USB TO 4CH RS232

to 4-ch RS232 male port



USB TO 4CH RS232 (F)

to 4-ch RS232 female port

Specifications

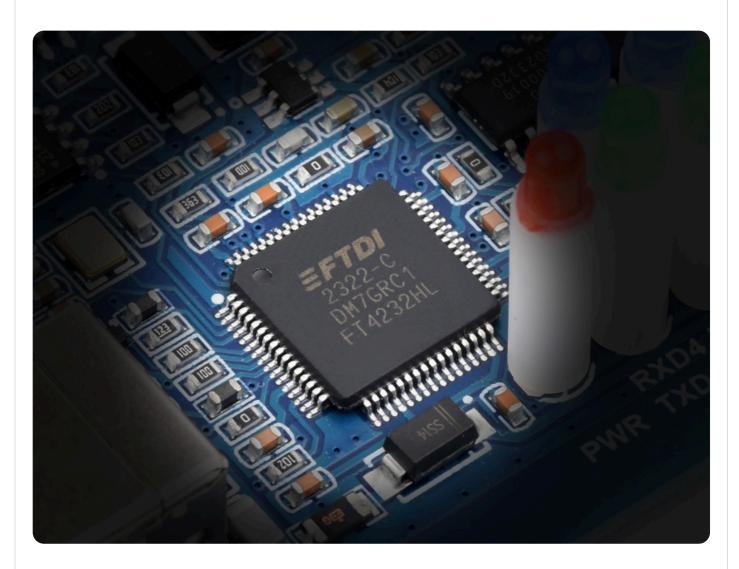
PRODUCT TYPE	Industrial USB to R	S232 isolated converter	
HOST PORT	USB		
DEVICE PORT	RS232 300bps ~ 921600bps		
BAUD RATE			
USB	Operating voltage	5V	
	Connector	USB-B	
	Protection	200mA self-recovery fuse, isolated output	
	Transmission distance	about 5m	
POWER SUPPLY INTERFACE	Power supply	5~36V DC screw terminal	
	Protection	Anti-reverse	

ISOLATED RS232	Connector	DB9 male/female	
	Protection	TVS diode, surge protection & ESD protection, power isolation and signal isolation	
	Transmission mode	Point-to-point	
	Transmission distance	about 15m	
INDICATORS	PWR	Red power indicator, lights up when there is USB connection and voltage is detected	
	TXD1~4	Green TX indicator, blinking when the RS232 port is sending data	
	RXD1~4	Blue RX indicator, blinking when the RS232 port is receiving data	
OPERATING ENVIRONMENT	Temperature range	-40°C ~ 85°C	
	Humidity range	5%RH~95%RH	
OPERATING SYSTEM	MacOS, Linux, Android, Windows 11 / 10 / 8.1 / 8 / 7		

Original Industrial Grade Chip

Onboard Original FT4232HL Chip,

Fast Communication, Stable & Reliable, Better Compatibility

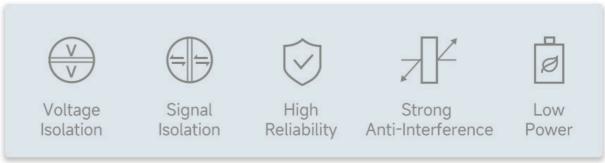


Safer Isolated Design

 Onboard unibody power supply isolation, provides stable isolated voltage

 Onboard unibody digital isolation, allows signal isolation, high reliability, strong anti-interference, low power consumption





Multiple Protection, Safe And Stable

Onboard TVS (Transient Voltage Suppressor), effectively suppress surge voltage and transient spike voltage in the circuit, lightningproof & ESD protection. Onboard self-recovery fuse and protection diodes, ensure the current/voltage stable outputs, provide over-current/over-voltage proof, improve shock proof performance.



Multi System Support

Supports MacOS, Linux, Android, Windows 11 / 10 / 8.1 / 8 / 7, Etc.

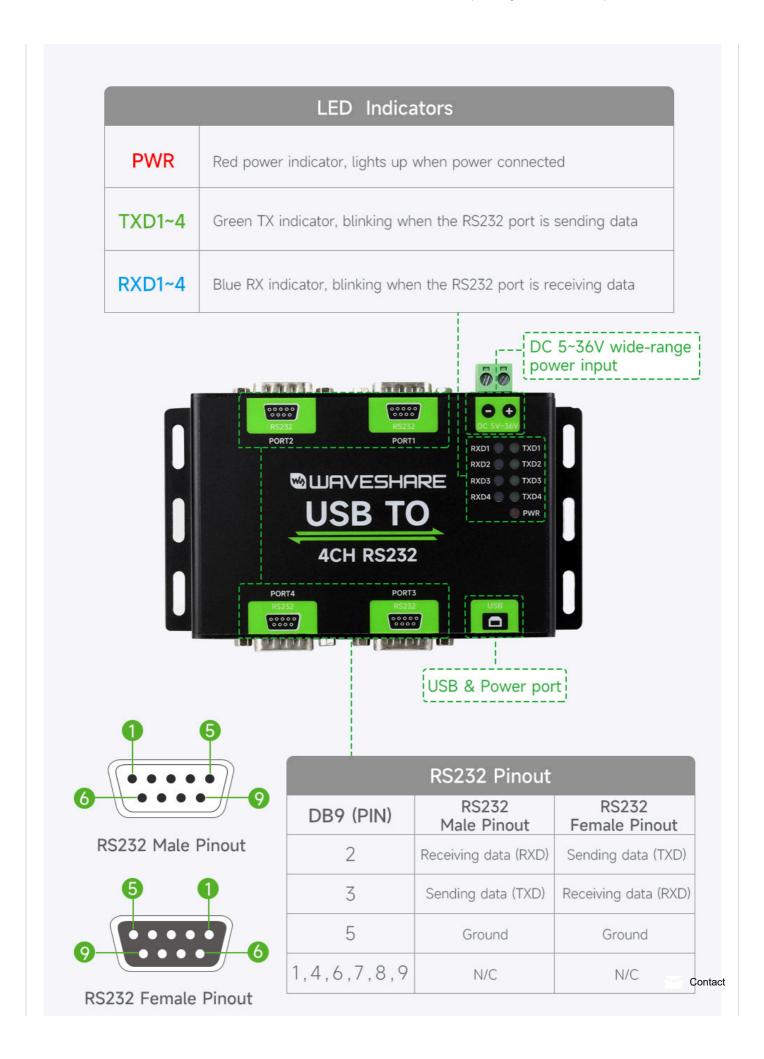


Aluminum Alloy Enclosure

Aluminum Alloy Enclosure With Sand Blasting And Anodic Oxidation, Solid And Durable



Pin Definition



Outline Dimensions





Resources & Services















User Manual

Circuit Diagram

Example Code

Dev Resources

WIKI: www.waveshare.com/wiki/USB TO 4CH RS232

* Resources for different product may vary, please check the wiki page to confirm the actually provided resources.

USB To Serial Port Converter

Selection

MODEL	DESCRIPTION	SERIAL PORT CONVERTER
USB TO RS232/485/TTL	USB to single-channel serial port; Adopts FT232RL solution; Industrial grade, with isolation; Wall-mount and desktop support	Single serial port converter: USB to RS232 USB to RS485 USB to TTL



USB TO RS232/485/TTL (B)

USB to single-channel serial port;

Adopts CH343G solution; Industrial grade, with isolation;

Wall-mount and desktop support

Single serial port converter:

- USB to RS232
- USB to RS485
- USB to TTL



USB TO RS232/485/422/TTL

USB to single-channel serial port;

Adopts FT232RNL solution; Industrial grade, with isolation; Wall-mount and rail-mount

support

support

support

Single serial port converter:

- USB to RS232
- USB to RS485
- USB to RS422
- USB to TTL



USB TO
UART/I2C/SPI/JTAG

USB to 2-ch serial port; Adopts CH347T solution; Industrial grade, without isolation; Wall-mount and desktop

Multi-functional serial port converter:

- USB to 2-ch TTL
- USB to 1-ch TTL + 1-ch I2C + 1-ch SPI
- USB to 1-ch TTL + 1-ch JTAG



USB TO 4CH TTL

USB to 4-ch serial port; Adopts CH344 solution; Industrial grade, without isolation; Wall-mount and desktop

4-ch serial port converter:

• USB to 4-ch TTL





USB TO 4CH RS485/422 USB to 4-ch serial port; Adopts FT4232HL solution; Industrial grade, with isolation; Wall-mount and rail-mount

support

support

4-ch serial port converter:

- USB to 4-ch RS485
- USB to 3-ch RS485 + 1-ch RS422
- USB to 2-ch RS485 + 2-ch RS422

USB TO 4CH Serial Converter USB to 4-ch serial port; Adopts FT4232HL solution; Industrial grade, with isolation; Wall-mount and desktop 4-ch serial port converter:

- USB to 1-ch TTL + 3-ch RS485
- USB to 1-ch TTL + 2-ch RS485 + 1-ch RS232
- USB to 1-ch TTL + 2-ch RS485 + 1-ch RS422
- USB to 1-ch TTL + 2-ch RS485 + 1-ch RS232 + 1-ch RS422
- USB to 2-ch TTL + 2-ch RS485
- USB to 2-ch TTL + 1-ch RS485 + 1-ch RS422
- USB to 2-ch TTL + 1-ch RS422 + 1-ch RS232



USB TO 8CH RS485

USB to 8-ch serial port; Industrial grade, with isolation; Wall-mount and rail-mount

Wall-mount and rail-mount support

8-ch serial port converter:

• USB to 8-ch RS485