Ask AI

Modbus RTU PWM Output 4CH



SKU	Product
33921	Modbus RTU PWM Output 4CH

Features

- Output uses high-speed opto-isolation; output high-level voltage can be selected via internal jumper
- Four independent PWM pulse outputs with adjustable frequency and duty cycle
- Supports setting device address (1 - 255) for cascading multiple devices via RS485 bus
- Onboard voltage regulator chip supports wide 7 V - 36 V power supply

- Onboard integrated isolated power supply provides stable isolated voltage; the isolated side requires no additional power
- Onboard integrated magnetic coupling isolation provides signal isolation, ensuring high reliability and strong anti-interference capability
- Onboard resettable fuse and TVS (transient voltage suppression) diode effectively suppress surge voltage and transient spike voltage in the circuit, providing overcurrent, overvoltage, lightning, and electrostatic protection
- Built-in watchdog timer ensures stable operation without freezing
- Rail-mounted enclosure design, compact size, easy installation
- Three external LED indicators for easy monitoring of power status and signal transmission/reception

Product Parameters

Communication Interface	**RS485**
Communication Baud Rate	4800, 9600, 19200, 38400, 57600, 115200, 128000, 256000
Default Communication Format	9600, N, 8, 1
Modbus Protocol	Standard Modbus RTU protocol
Supply Voltage	DC 7 - 36 V
Output Voltage	3.3 V or 5 V selectable
Output Current	< 30mA, signal type
Pulse Frequency	1 Hz - 200 kHz
Pulse Resolution	0.01 Hz
Pulse Accuracy	5‰
Duty Cycle	0 - 100%
Duty Cycle Resolution	0.01%

Communication Interface	RS485
Duty Cycle Accuracy	5‰(1 Hz - 50 kHz), 1%(50 kHz - 200 kHz)

LED Indicator Descriptions

Indicator	Status Description
PWR LED	Power indicator, flashes when MCU is working normally
TXD LED	Transmission indicator, lights up when transmitting data
RXD LED	Reception indicator, lights up when receiving data

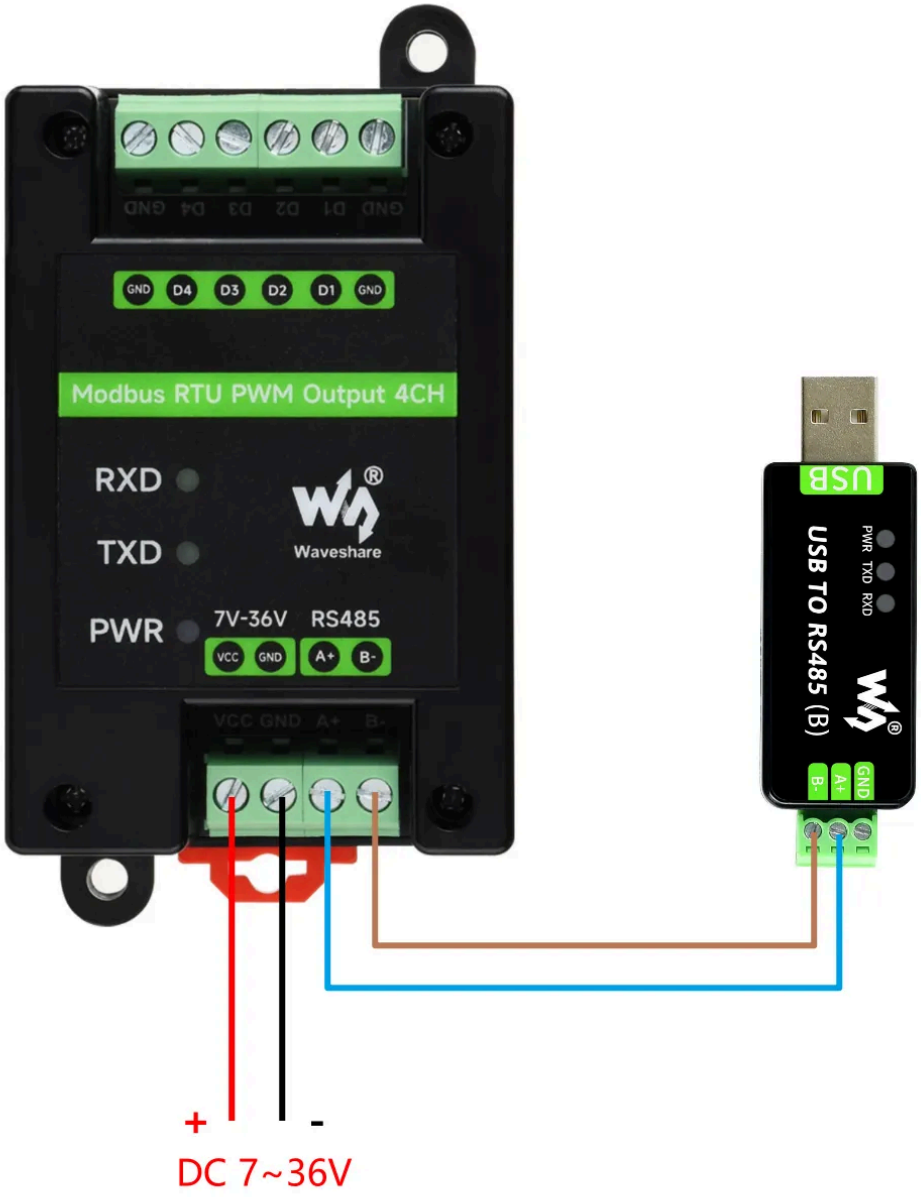
Hardware Interface Description

D1 - D4 are pulse output terminals, GND is power ground. The PWM output frequency range is 1 Hz - 200 kHz.



Hardware Connection Description

Connect the USB TO 485 converter to the target board using jumper wires, connecting A-->A and B-->B as shown in the figure below:



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