



GW1101-1D(RS-485)-TB-P(12-48VDC)

Wall Mounting

- 1 RS-485/422 + 1 100M Ethernet Port Modbus Gateway
- Support 1 RS-485/422 serial port and 1 10/100Base-T(X) self-adaptive Ethernet interface
- Support conversion between Modbus RTU/ASCII and Modbus TCP protocol
- Support RTU Master, RTU Slave, ASCII Master, ASCII Slave and other operating modes
- Support virtual and real ID mapping to achieve flexible access between Master and Slave devices
- Support 12~48VDC power supply input
- Support -40~75°C wide operating temperature range



3onedata Co.,Ltd.

Introduction

GW1101-1D(RS-485)-TB-P(12-48VDC) is Modbus gateway designed for integrating Modbus RTU/ASCII and Modbus TCP networks; it can achieve the conversion between Modbus RTU/ASCII and Modbus TCP protocols. This product has 1 RS-485/422 serial port and 1 100M Ethernet copper port. It adopts wall mounting to meet the requirements of different application scenes.

Modbus gateway supports multiple network protocols, such as Modbus, TCP, IP, UDP, TELNET, ARP, ICMP, HTTP, HTTPS, SNMP, SSH, SMTP, SNTP, DNS and DHCP protocols. It possesses complete management function, and supports access control, rapid configuration, online upgrading, etc. RTU Master, RTU Slave, ASCII Master, ASCII Slave and other operating modes are supported; it supports up to 256 Modbus TCP client (master) accesses and connects up to 128 Modbus TCP server (slave) devices. TELNET, WEB, SSHD and other access modes are also supported. It can provide users with good experience with friendly design of network management system interface, simple and convenient operation.

DIP switch can achieve one-button pull-up/down resistance and terminal resistance configuration. Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It can be widely used in PLC control and management, Building Automation System, Health Care Automation System, measuring instrument and environmental forces monitoring system, etc.

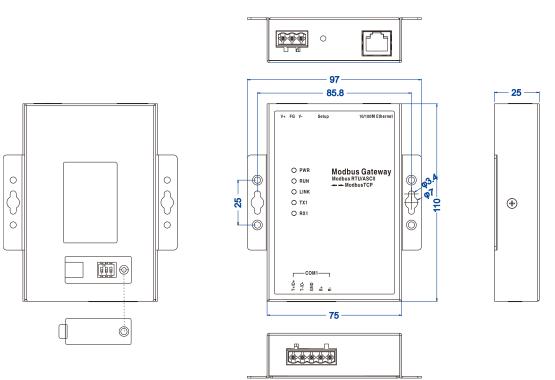
Features and Benefits

- Support 110bps- 115200bps line speed and non-blocking communication
- Support RTS/CTS, DTR/DSR and XON/XOFF flow control
- Support response timeout setting of characters
- Support RTU Master, RTU Slave, ASCII Master, ASCII Slave and other operating modes
- Support up to 256 Modbus TCP client (master) accesses and connect up to 128 Modbus TCP server (slave) devices
- Support virtual and real ID mapping to achieve flexible access between Master and Slave devices
- Support IP address and MAC address filtering, which can achieve accurate access control easily
- Support graded user management to implement humanized authority management
- Support serial port status and parameters monitoring, ensuring the communication status is easy to read
- Support multiple configuration forms and access controls like Windows configuration tool, TELNET, SSHD and WEB

- File management is convenient for the device rapid configuration and online upgrading
- SSHD and HTTPS can guarantee the access security of data
- Conduct network diagnosis and troubleshooting via Ping and Traceroute
- Support multiple alarm methods, including e-mail alarm, log alarm and SNMP Trap alarm

Dimension

Unit: mm



Specification

Ethernet	Standard: 10Base-T, 100Base-TX Protocol: Modbus TCP, TCP, IP, UDP, ARP, HTTP, TELNET, SNMP, ICMP, DHCP, DNS Rate: 10/100M Automatic Flow Control, MDI/MDI-X Autotunning Interface quantity: 1 Interface form: RJ45 Duplex mode: Full/Half Duplex Mode Self-adaption
Serial Port	Standard: EIA RS-485, RS-422 Protocol: Modbus RTU/ASCII

	Quantity of serial port: 1 RS-485/422 serial port RS-485 signal: D+, D-, GND RS-422 signal: T+, T-, GND, R+, R- Baud rate: 110~115200bps Data bit: 7bit, 8bit Parity bit: None, Even, Odd, Space, Mark Stop bit: 1bit, 2bit Interface form: adopt 5-pin 5.08mm pitch terminal blocks Directional control: RS-485 direction adopts Automatic Data Direction Control technology Pull high/low resistor for RS-485: 4.7kΩ Electromagnetic isolation strength: 3KVDC/2KVrms Operating mode: RTU Master, RTU Slave, ASCII Master and ASCII Slave Connection quantity: support up to 256 Modbus TCP client (master) accesses and connect up to 128 Modbus TCP server (slave) devices.
Configuration Method	WEB configuration management, TELNET configuration, Windows configuration tool, SSHD configuration
Security	User right classification, IP address filtering, MAC address filtering, SNMP/ Mail /System Log alarm, HTTP/HTTPS/SSHD/TELNET access control
Indicator	Power supply indicator, running indicator, Ethernet port indicator, serial port indicator
Power Supply	12~48VDC, 3-pin 5.08mm pitch terminal blocks Power supply nonpolarity
Power Consumption	No-load: ≤ 0.8W@12VDC (high temperature) Full-load: ≤ 0.8W@12VDC (high temperature)
Working Environment	Operating temperature: -40∼75°C Storage temperature:-40∼85°C Relative humidity: 5%∼95% (no condensation)
Physical Characteristic	Housing: IP40 protection, metal Installation: wall mounting Dimension (W x H x D): 97mm×110mm×25mm Weight: 0.3kg
Industrial Standard	 IEC 6100042 (ESD, electrostatic discharge), Level 3 Air discharge: ± 8kV Contact discharge: ±6kV

IEC 6100044 (EFT, electrical fast transient pulses), Level 3

- Power supply: ±2kV
- Signal: ±1kV

IEC 6100045 (Surge), Level 3

- Power supply: common mode±2kV, differential mode±1kV
- Signal: common mode±2kV, differential mode±1kV

Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068- 2- 6

Certification	CE, FCC, RoHS
Warranty	3 years



Ordering Information

Available Models	100M Copper Port	RS-485/422	Power Supply
GW1101-1D(RS-485)-TB-P(12- 48VDC)	1	1	12~48VDC



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