





GW1104 Series

Wall or Desktop Mounting

4 RS-232/485/422 Modbus Gateway

- Support 4 RS-232, RS-485/422 or 3IN1 serial port to 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 -40~75°C wide temperature operation









Introduction

GW1104 series of Modbus gateway are designed for integrating Modbus RTU/ASCII and Modbus TCP; they can achieve the conversion between Modbus RTU/ASCII and Modbus TCP protocol. This series provide 3 types of products and support 4 RS-232, RS-485/422 or 3IN1 serial port and 1 100M Ethernet copper port. They adopt wall or desktop 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, 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 32 TCP Slave requests under Master mode and 16 TCP Master connections under Slave mode. TELNET, WEB and other access modes are also supported. It can provide you with good user experience via friendly design of network management system interface, simple and convenient operation.

DIP switch or RST button can achieve the device restore factory defaults. 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.

Features and Benefits

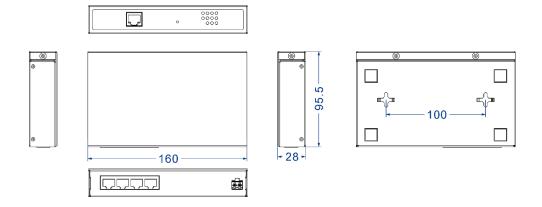
- Support 10/100Base-T(X) self-adaptive Ethernet interface
- Support 300bps-115200bps line speed and non-blocking communication
- Support RTS/CTS, DTR/DSR and XON/XOFF flow control
- Support response timeout setting of characters
- Support RTU Master, RTU Slave, ASCII Master, ASCII Slave and other operating modes
- Support up to 32 TCP Slave requests under Master mode
- Support up to 16 TCP Master connections under Slave mode
- Support virtual and real ID mapping to achieve flexible access between Master and Slave devices
- Support IP address and MAC address filtering, which is easy to achieve accurate access control
- Support classification of user management to achieve humanized permission management
- Support monitoring for serial port status and parameters, so the communication status will be clear at a glance
- Support Windows configuration tool, TELNET, WEB configuration forms and access control

File management is convenient for the device rapid configuration and online upgrading

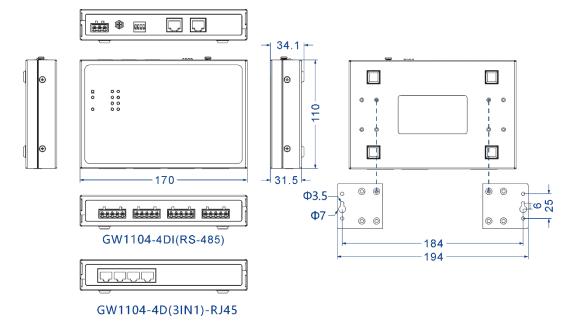
Dimension

Unit:mm

GW1104-4D(RS-232)



GW1104-4DI(RS-485), GW1104-4D(3IN1)-RJ45



Specification

Ethernet

Standard: 10Base-T, 100Base-TX
Protocol: Modbus TCP, TCP, IP, UDP, ARP, HTTP, TELNET,

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	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-232C, RS-485, RS-422 Protocol: Modbus RTU/ASCII Quantity of serial port: 4 RS-232, RS-485/422 or 3IN1 serial port RS-232 signal: DSR, RTS, GND, TXD, RXD, DCD, CTS, DTR RS-485 signal: D+, D-, GND RS-422 signal: T+, T-, GND, R+, R- Baud rate: 300-115200bps Data bit: 5bit, 6bit, 7bit, 8bit Parity bit: None, Even, Odd, Space, Mark Stop bit: 1bit, 2bit Interface form: RS-232 serial port, adopt RJ45;				
Configuration	WEB configuration management, TELNET configuration, Windows configuration tool				
Security	Classification of User Permissions, IP address filtering, MAC address filtering, WEB Console, TELNET Console				
Indicator	Power supply indicator, running indicator, Ethernet port indicator, serial port indicator				
Power Requirement	GW1104-4D(RS-232) Power supply range: 9~48VDC Connection mode: 2-pin 5.08mm pitch terminal blocks GW1104-4DI(RS-485), GW1104-4D(3IN1)-RJ45 Power supply range: 12~48VDC Connection mode: 3-pin 5.08mm pitch terminal blocks				

Warranty

3 years

	Power supply protection: nonpolarity connection				
Power Consumption	No-load: ≤2.94W@12VDC Full-load: ≤3.00W@12VDC				
Environmental Limit	Operating temperature range: -40~75°C Storage temperature range: -40~85°C Relative humidity: 5% ~ 95% (no condensation)				
Physical Characteristic	Housing: IP30 protection, metal Installation: wall or desktop mounting Dimension (W x H x D): 160mm×28mm×95.5mm (RS-232); 170mm×31.5mm×110mm (RS-485/422, 3IN1) Weight: ≤590g				
Industrial Standard	IEC 61000-4-2 (ESD, Electro-static Discharge), Level 4 Air discharge: ±15kV Contact discharge: ±8kV IEC 61000-4-4 (EFT/B, Electrical Fast Transient/Burst), Level 3 (except RS-232) Power supply: ±2kV Signal: ±1kV IEC 61000-4-5 (Surge), Level 3 (except RS-232) 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				

Ordering Information

Available Models	100M Copper Port	RS-232	RS-485/422 (with isolation)	3IN1 (RS-232/485 /422)	Power Supply Range
GW1104-4D(RS-232)	1	4	_	_	9~48VDC
GW1104-4DI(RS-485)	1	_	4	_	
GW1104-4D(3IN1)-RJ45	1	_	_	4	12~48VDC



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