

## GW11XX 3IN1 Series

## 4/8-port RS-232/485/422 to 1/2-port 10/100Base-T(X) Modbus Gateway

### Serial-to-Ethernet Modbus Gateways

#### Features

- Supports 1/2-port 10/100Base-T(X) and 4/8-channel RS-232/485/422 serial port optional
- The 2-port 10/100Base-T(X) Modbus gateway supports two IP addresses and two MAC addresses
- Supports 300~115200bps non-blocking communication
- Supports RTU Slave, RTU Master, ASCII Slave and ASCII Master working modes
- Supports Modbus TCP, Modbus RTU, Modbus ASCII, IP, ARP, DHCP and DNS protocols
- Slave mode support 16 TCP master connections
- Master mode support 32 slave TCP connection requests
- Supports response timeout and interval timeout settings
- Supports ID mapping function, to achieve the management of the host ID
- Supports WEB and Telnet configurations
- Supports IP address and MAC address filtering function
- Supports cross-gateway and cross-router communication
- Provide Windows configuration tools for easy to use, easy to bath install.
- IP30 protection grade, metal shell, wall mounted installation
- No fan, low consumption design
- Working temperature: -40~85°C



#### Introduction

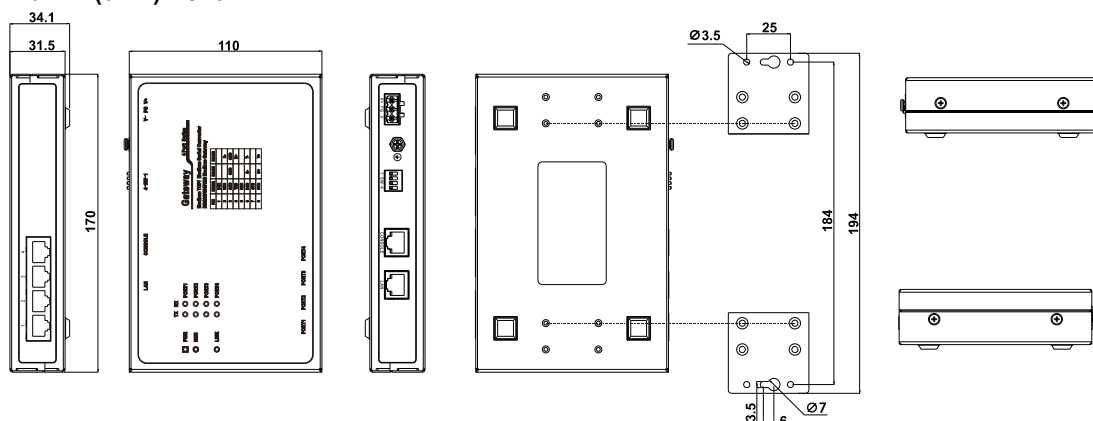
GW11XX 3IN1 series gateways are serial-to-Ethernet Modbus gateways that convert between Modbus TCP and Modbus RTU/ASCII protocols. They support 4/8-channel RS-232/485/422 serial ports (RJ45) and 1/2-port 10/100Base-T(X) Ethernet interface optional.

Modbus TCP, Modbus RTU and Modbus ASCII protocol are integrated in the products, users can easily realize the seamless integration of Modbus Ethernet devices and Modbus serial devices and even multi master and slave hybrid networks. At the same time, the user can be set up by Web or Telnet. The simple design can not only realize the fast application, but also guarantee the application of the entire real industrial environment.

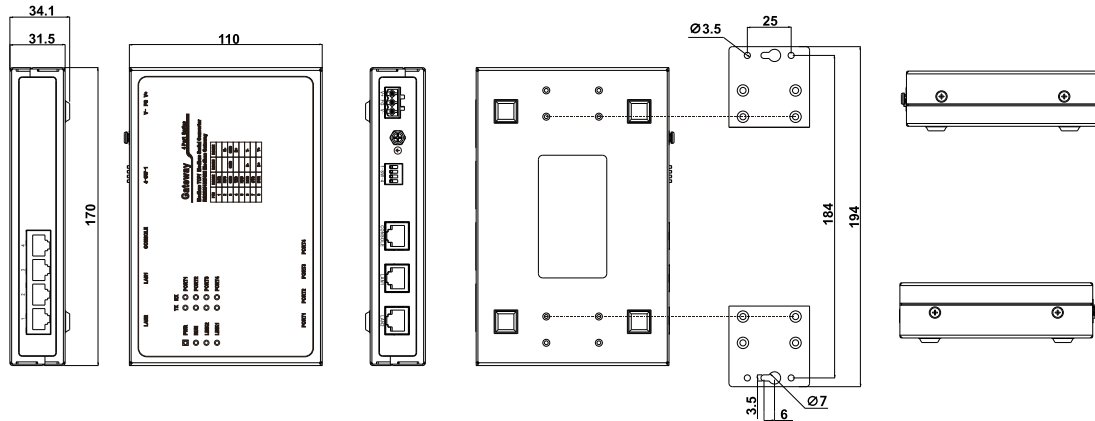
The products using EMC protection design. Power has over current, over voltage protection, and can work in rugged environment. The design support wall mounting installation, easy to use for your projects.

#### Dimension (Unit: mm)

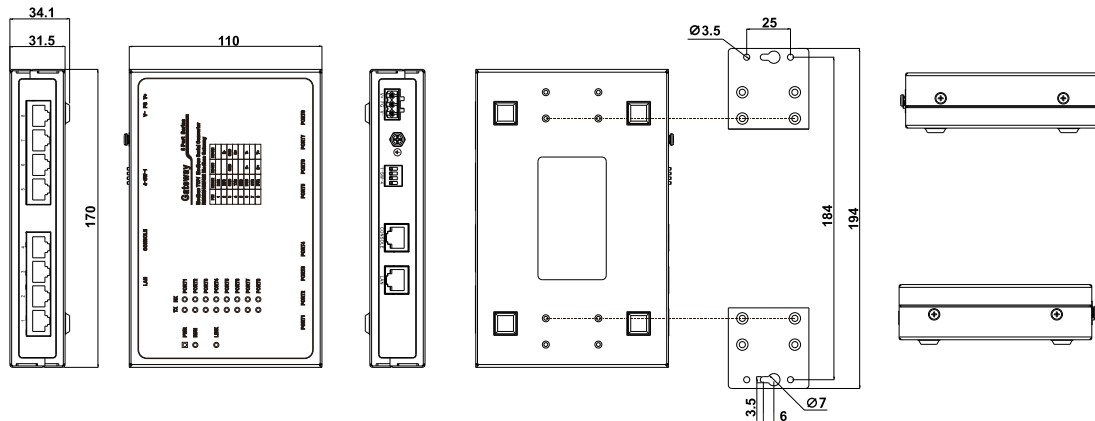
##### ➤ GW1104-4D(3IN1)-RJ45:



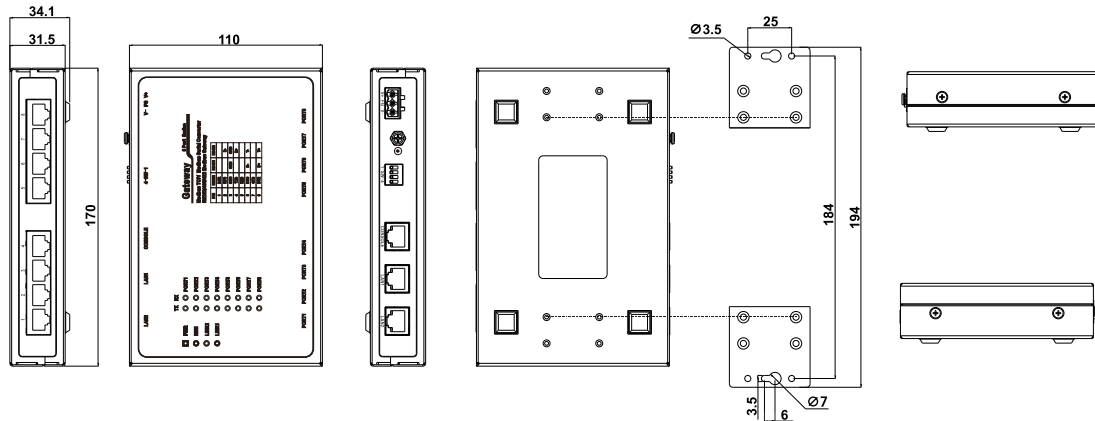
➤ **GW1114-4D(3IN1)-RJ45:**



➤ **GW1108-8D(3IN1)-RJ45:**



➤ **GW1118-8D(3IN)-RJ45:**



## Specification

### Ethernet port

Standard: 10Base-T, 100Base-TX

Protocol: Support Modbus TCP, Modbus RTU, Modbus ASCII, IP, APR, ICMP, DNS and DHCP

Signal: Rx+, Rx-, Tx+, Tx-

Speed: 10/100Mbps

Working: Full duplex and half duplex

Transfer distance: 100m

Connector: RJ45

## Serial port

Serial port number: RS-232/485/422

RS-232 signal: DSR, RTS, GND, TXD, RXD, DCD, CTS,  
DTR

RS-485 signal: D+, D-, GND

RS-422 signal: T+, T-, R+, R-, GND

Parity bit: None, Even, Odd, Space, Mark

Data bit: 7bit, 8bit

Stop bit: 1bit, 2bit

Baud rate: 300bps ~ 115200bps

RS-232 transfer distance: 15m  
 RS-485/422 transfer distance: 1200m  
 Direction control: RS-485 using data flow automatic control technology  
 Load capacity: support 32 point polling environment (customizable 128 points)

Connector: RJ45

#### LED Indicator

Run indicator: RUN  
 Power supply indicator: PWR  
 Ethernet Link/Act indicator: LINK  
 RS-232/485/422 port transmit data indicator: TX  
 RS-232/485/422 port receive data indicator: RX

#### Power requirements

Input voltage: 12~48VDC  
 Type of input: 3-pin 5.08mm spacing terminal block  
 ➤ GW1104-4D(3IN1)-RJ45, GW1114-4D(3IN1)-RJ45  
 No-load consumption: 2.16W@12VDC  
 Full-load consumption: 3.00W@12VDC  
 ➤ GW1108-8D(3IN1)-RJ45, GW1118-8D(3IN1)-RJ45  
 No-load consumption: 1.8W@12VDC  
 Full-load consumption: 3.9W@12VDC

#### Environment limits

Working temperature: -40~85°C  
 Storage temperature: -40~85°C  
 Relative humidity: 5%~95% (non-condensing)

#### Mechanical

Shell: IP30 protection, metal shell  
 Installation: Wall mounting  
 Weight: 580g  
 Size (L×W×H): 170.0mm×110.0mm×31.5mm

#### Standard

EMI: FCC Part 15, CISPR (EN55022) class A  
 EMS:

- IEC 61000-4-2 (ESD), Level 4
  - Contact: 8 kV
  - Air: 15 kV
- IEC 61000-4-4 (EFT), Level 3
  - Power: 2 kV
  - Signal: 1 kV
- IEC 61000-4-5 (Surge), Level 3
  - Power: common mode 2 kV  
difference mode 1 kV
  - Signal: common mode 1 kV  
difference mode 1 kV

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

**Warranty:** 3 years

#### Certificates

CE, FCC, RoHS, UL508 (pending)

## Ordering Information

Available Models	Port Interface		Power Supply
Standard Models	RS-485/422	10/100Base-T(X)	12~48VDC
GW1104-4D(3IN1)-RJ45	4	1	
GW1114-4D(3IN1)-RJ45	4	2	
GW1108-8D(3IN1)-RJ45	8	1	
GW1118-8D(3IN1)-RJ45	8	2	