



IGW1114-4DI(3IN1)-DB-2P(12~48VDC)

DIN-Rail or wall mounting

4 RS-232/485/422 + 2 100M Ethernet Ports Modbus Gateway

- Support 4 3IN1 serial ports and 2 10/100Base-T(X) self-adaptive Ethernet interfaces
- 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

IGW1114-4DI(3IN1)-DB-2P(12~48VDC) of Modbus gateway is designed for integrating Modbus RTU/ASCII and Modbus TCP; it can achieve the conversion between Modbus RTU/ASCII and Modbus TCP protocol. This product supports 4 3IN1 serial ports and 2 100M Ethernet copper ports. They adopt DIN-Rail or 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, 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 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.

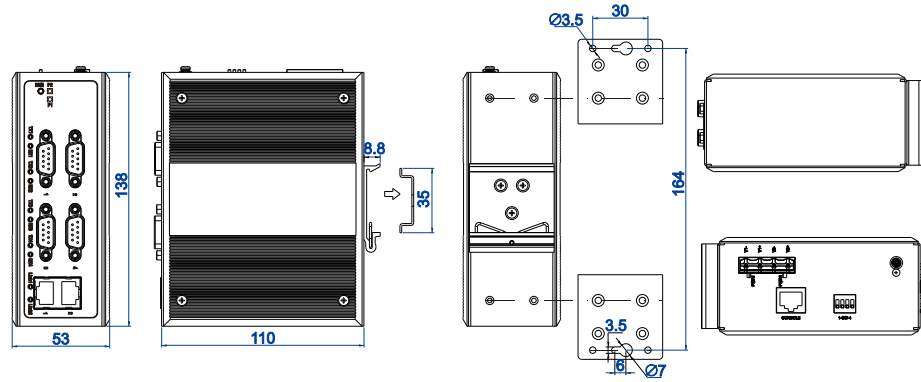
Features and Benefits

- ⊙ Support 2 10/100Base-T(X) self-adaptive Ethernet interfaces, provide dual IP and MAC addresses to meet the requirements of multiple network management or backups
- ⊙ 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



Specification

<p>Ethernet</p>	<p>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 autotuning Interface quantity: 2 Interface form: RJ45 Duplex mode: full/half duplex mode self-adaption</p>
<p>Serial Port</p>	<p>Standard: EIA RS-232C, RS-485, RS-422 Protocol: Modbus RTU/ASCII Quantity of serial port: 4 3IN1 serial port RS-232 signal: RXD, TXD, GND RS-485 signal: D+, D-, GND RS-422 signal: T+, T-, GND, R+, R- Baud rate: 300-115200bps Data bit: 7bit, 8bit Parity bit: None, Even, Odd, Space, Mark Stop bit: 1bit, 2bit Interface form: DB9 Male Directional control: RS-485 direction adopts Automatic Data Direction Control technology Pull high/low resistor for RS-485: 4.7kΩ Intensity of electromagnetic isolation: 2KV Operating mode: RTU Master, RTU Slave, ASCII Master and ASCII</p>

Slave

Connection quantity: up to 32 TCP Slave requests are supported under Master mode
up to 16 TCP Master connections are supported under Slave mode

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	12~48VDC, 4-pin terminal blocks Power supply nonpolarity
Power Consumption	No-load: 2.59W@48VDC Full-load: 2.93W@48VDC
Environmental Limit	Operating temperature: -40~75°C Storage temperature: -40~85°C Relative humidity: 5% ~ 95% (no condensation)
Physical Characteristic	Housing: IP40 protection, metal Installation: DIN-Rail or wall mounting Dimension (W x H x D): 53mm×138mm×110mm Weight: 640g
Industrial Standard	IEC 61000-4-2 (ESD, Electro-static Discharge), Level 3 <ul style="list-style-type: none"> ● Air discharge: ±8kV ● Contact discharge: ±6kV IEC 61000-4-4 (EFT/B, Electrical Fast Transient/Burst), Level 3 <ul style="list-style-type: none"> ● Power supply: ±2kV ● Signal: ±1kV IEC 61000-4-5 (Surge), Level 3 <ul style="list-style-type: none"> ● 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

Model	100M Copper Port	3IN1 (RS-232/485/422) Serial Port with Isolation	Power Supply
IGW1114-4DI(3IN1)-DB -2P(12-48VDC)	2	4	12~48VDC Dual power supply



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