



IGW3500-2T1D-TB-P (24VDC)

Rail mounted installation

Modbus RTU to ETHERNET/IP gateway

- Supports 1 RS485 serial port and 2 10/100 Mbit/s Ethernet/IP Ethernet interfaces, RJ45 interface
- Complies with standard Ethernet/IP and Modbus protocol specifications, supports custom serial port protocols
- No need to configure Modbus parameters through Ethernet/IP, supporting more Modbus device connections
- Support configuration software for online monitoring and recording of Modbus network data
- Support Modbus device point table import and export, convenient for engineers to set up
- Supports 24VDC DC power supply
- Support -20~70°C wide operating temperature range



EtherNet/IP



Industrial Grade



Fanless Design

Introduction

IGW3500-2T1D-TB-P (24VDC) is a powerful and easy to configure gateway used to connect serial devices to Ethernet/IP networks. This gateway can achieve bidirectional data exchange, support standard Modbus RTU devices, and also support custom serial port protocols. On the Ethernet/IP side, the gateway operates as an Ethernet/IP adapter device. Through the EDS file of the gateway, customers can configure input and output in the PLC. On the serial port side, the device can operate as a Modbus master slave station or according to user-defined protocols.

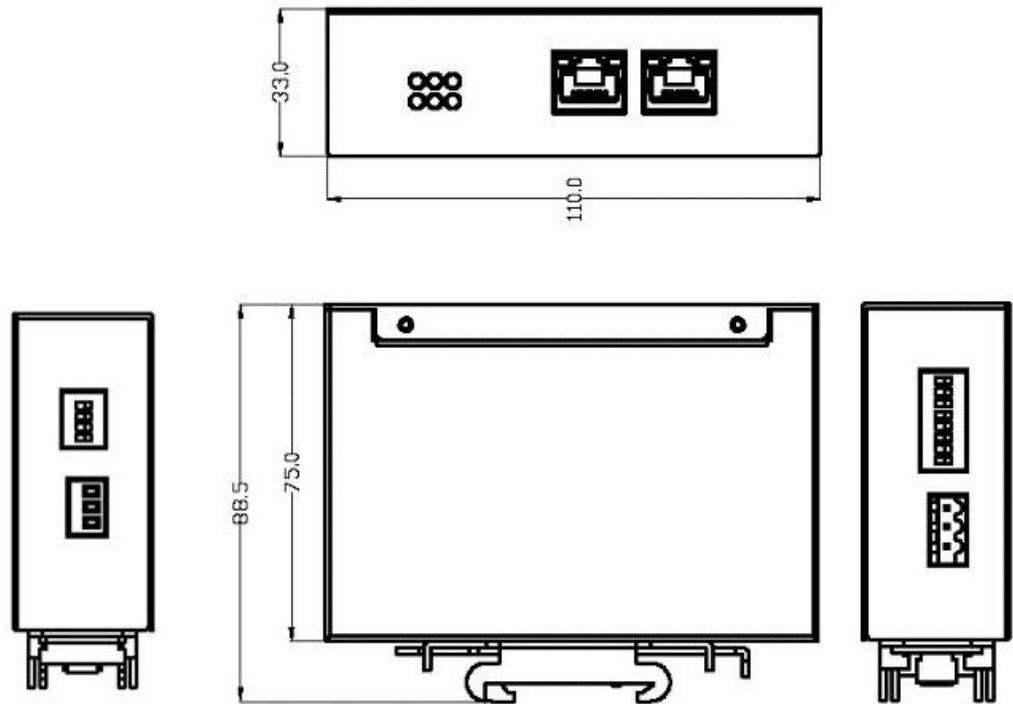
The configuration software completes the mapping of Ethernet/IP and serial port data, and exchanges Ethernet/IP network data and serial port network data through the gateway. Adopting a guide rail installation method, it is applied to frequency converters, intelligent high and low voltage electrical appliances, power measurement devices, intelligent on-site measurement equipment, instruments, PLC, DCS, FCS, etc. of Modbus RTU interface.

Features and Benefits

- ⦿ Supports 2-way 10/100 Mbit/s Ethernet/IP Ethernet interface, meeting Ethernet/IP specification Edition3.1 and specification Edition1.24
- ⦿ Ethernet/IP - RS485 devices are Ethernet/IP adapters on the Ethernet/IP side, and can serve as Modbus master stations on the RTU side through RS485
- ⦿ Supports a maximum input byte count of 500 bytes and a maximum output byte count of 500 bytes. The length of the input and output bytes is set by the Rockwell Logix controller
- ⦿ Complies with standard Ethernet/IP and Modbus protocol specifications, supports custom serial port protocols
- ⦿ Graphical configuration without programming
- ⦿ No need to configure Modbus parameters through Ethernet/IP, supporting more Modbus device connections
- ⦿ Protocol conversion time in milliseconds
- ⦿ Flexible serial port customization method
- ⦿ Support Modbus device point table import and export, facilitating engineer configuration
- ⦿ Extensive industrial field application verification
- ⦿ High cost performance, can be quickly customized

Dimension

Unit: mm



Specifications

Ethernet/IP

CIP&EI specifications: Edition3.1&Edition1.24
Energy spectrometer: EDS
Ethernet/IP interface: 2-way 10/100 Mbit/s Ethernet, RJ45 interface
Support maximum data: 1500bytes IN+1500bytes OUT
Ring network configuration: DLR
Support maximum data: 1500bytes IN+1500bytes OUT
Switch: Integrated dual port switch
Protocol: Supports QC
Protocol conversion time:<15ms

Serial Port

Specifications: Modbus V1.1b3, Modbus RTU V1.02
Number of serial ports: 1 RS485 interface, 3 wire swapping terminals,
software selection interface
Node size: can connect up to 32 Modbus RTU slave devices, support
up to 128 Modbus commands, and support up to 128
custom commands
RS485 terminal resistor: Qin style dial code
Support baud rates: 1200 Bit/s, 2400 Bits/s, 4800 Bits/s, 9600 Bits/s,
19200 Bits/s, 38400 Bits/s, 57600 Bits/s, 115200

Bits/s

Master and slave stations: Modbus RTU master and slave stations are optional

Verification: Supports odd, even, and no options

Modbus RTU function code Functions: 01H, 02H, 03H, 04H, 05H, 06H, 0FH, 10H

Custom protocol communication model: request response method

Custom Protocol Basic Elements: Constants, variables, checksums

Custom protocol triggering: supported, can set triggering address

Configuration Tools	Tool Name: 3onedata Configuration Studio Configuration interface: Ethernet/IP network port Engineering management: supports saving and loading Language: Supports switching between Chinese and English Monitoring: Supports Modbus message monitoring, import, and export Modbus point table: supports importing and exporting Modbus point tables Interactive mapping: supports configuration of serial port data and Profinet IO mapping
Indicator Light	Power indicator light, Ethernet port indicator light, serial port indicator light, and operation indicator light
Source	24 VDC soil 10%, 100mA typ
Protection/Isolation	Isolation: Triple isolation: Serial port<=>Power supply<=>Ethernet Protection: reverse voltage/short circuit protection
Mechanical Structure	Protection level: IP20 Shell material: Metal Shell size: 33mm x 110mm x 75mm Weight: approximately 330g Installation: DIN 35mm rail installation
Work Environment	Working temperature: -20~70 °C Storage temperature: -40~85 °C Relative humidity: 10%~95% (without condensation)
Warranty	5 years

Ordering Information

model	100Mbps Ethernet/IP port	RS485	Power Supply
IGW3500-2T1D-TB-P (24VDC)	2	1	24 VDC soil 10%



Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Song Bai Road, Nanshan District, Shenzhen, 518108, China

TEL.: +86-755-26702668 ext 835 FAX: +86-755-26703485

E-mail: ics@3onedata.com

Website: www.3onedata.com

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