



GT200-PN-MT

Modbus TCP / PROFINET Gateway

Introduction

The GT200-PN-MT gateway enables seamless connectivity between Modbus TCP and PROFINET network. It can connect multiple Modbus TCP Client/Server devices to PROFINET network and establishes a reliable communication channel between them. It also supports PROFINET MRP redundancy function to establish reliable connections.

Features

High Real-Time performance

The communication cycle time between the gateway's two protocols is 10ms, which can quickly enable data exchange and ensures real-time performance and high efficiency.



Strong EMI Resistance

Uses an isolated power supply to handle various complex industrial environments, improving resistance to electromagnetic interference to ensure reliability.



Ease of Use

No software installation is required, one-stop configuration is achieved by importing GSDML files in Siemens configuration software.

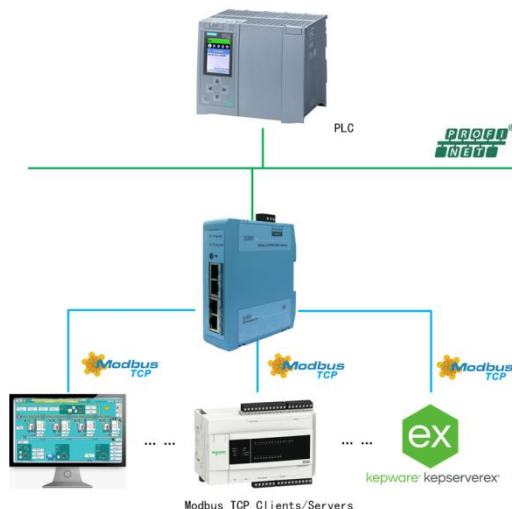


Wide Range of Applications

Two Modbus TCP interface, functions as Modbus TCP client or server. Up to 36 Modbus TCP devices can be connected to PROFINET.



Typical Application



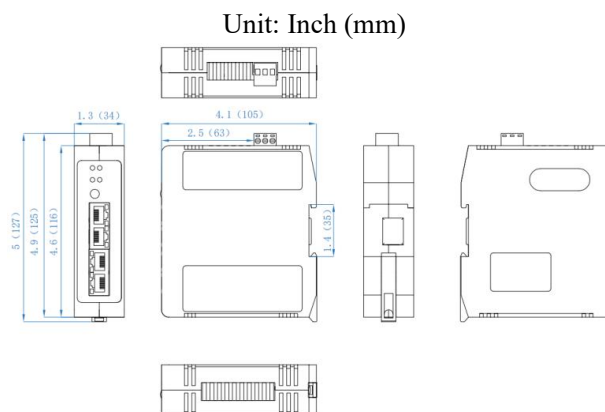
The GT200-PN-MT gateway can connect Modbus TCP devices to a PROFINET network. It functions as a bridge in the communication network to convert between Modbus TCP and PROFINET.

- PROFINET Controllers supported: Siemens S7-1200, Siemens S7-1500 PLCs, and other PROFINET IO compatible controllers.
- Modbus TCP devices supported: Schneider PLC, Siemens PLC, SCADA, KEPServerEX and other systems.

Technical Specifications

PROFINET Features	
Operation Mode	PROFINET RT and IRT Device
Redundancy	Supports MRP ring redundancy
Maximum Slots	A maximum of 32 slots
Protocols	Support for standard PROFINET RT protocols
Maximum Input and Output Bytes	1440 bytes in/out
Real-Time Capability	<10ms
Modbus TCP Features	
Operation Mode	Modbus TCP Client, Modbus TCP Server
Maximum Modbus TCP Client/Server Devices	72
Maximum Number of Commands (Client Mode)	300
Supported Function Code	01H, 02H, 03H, 04H, 05H, 06H, 0FH, 10H, 17H
Electrical / Environmental	
DC Input Voltage	24 VDC (9V-30V), 250mA (24VDC). Power interface isolation: 1.5KV.
Operating Temperature	-40°F to 158°F (-40°C to 70°C); Humidity 5% to 95%
Certification	CE Compliant
Physical	
Dimensions (W x H x D)	1.3in x 4.6in x 4.1in (34mm x 116mm x 105mm)
Mounting	35mm (1.4in) DIN Rail
Ethernet Port	10/100 Base-T, RJ45 Connector
Power Interface	3-Pin Terminal Block

Dimensions



Product Recommendations

Model Name	Network Interface 1	Network Interface 2
GT200-PN-RS	PROFINET	Modbus RTU/ASCII
GT200-DP-MT	PROFIBUS	Modbus TCP