

GT100-EI-RS485

Modbus / EtherNet/IP Gateway



Introduction

The GT100-EI-RS485 gateway provides seamless integration between serial devices (Modbus RTU/ASCII and passthrough serial) and an EtherNet/IP network. It supports up to 32 Modbus slave devices and provides a stable and reliable communication link to EtherNet/IP systems.

In-Depth Modbus Support

Supports up to 100 Modbus commands and many commonly used Modbus function codes such as:

01H to 06H, 0FH, and 10H.

Output options include cyclic output, disabled output, change-of-value output, and control-word triggering.

Strong Anti-Interference Capability

Built-in RS-485 terminal, pull-up, and pull-down resistors enhance communication stability.

A simple 2-bit DIP switch allows users to quickly adjust serial port settings.



Strong EMI Resistance

Uses an isolated power supply to operate reliably in complex industrial environments and improve resistance to electromagnetic interference.



Wide Range of Applications

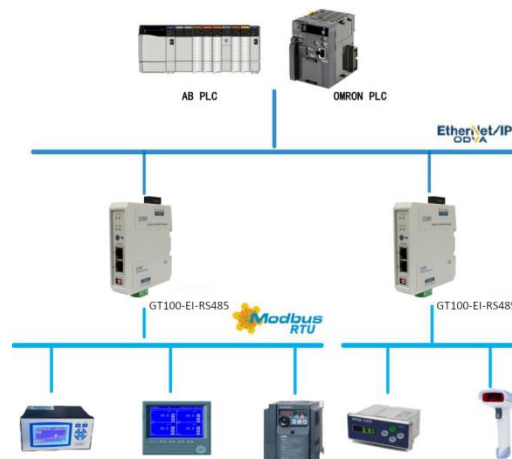
Features dual Ethernet ports and functions as an EtherNet/IP adapter.

Up to 32 Modbus devices can be connected to EtherNet/IP.



Typical Application

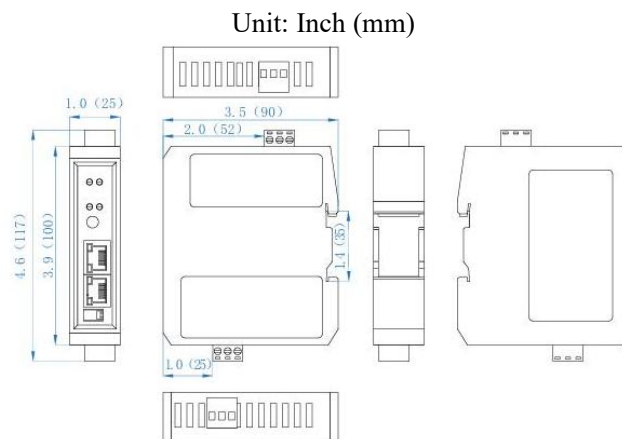
The GT100-EI-RS485 gateway connects Modbus RTU/ASCII devices to EtherNet/IP networks and supports PLC platforms such as ControlLogix, CompactLogix, ABB, and Omron. It features one RS-485 port for easy integration.



Technical Specifications

EtherNet/IP Features	
Ethernet Interface	2x RJ45 10/100M Ethernet ports with built-in switch
Ethernet Communication Protocol	ODVA-compliant EtherNet/IP
EtherNet/IP Operation Mode	EtherNet/IP Adapter
Maximum Input and Output Bytes	492 Bytes in/out
EtherNet/IP Communication Modes Supported	Implicit Messaging (I/O Messaging) Explicit Messaging (MSG Instruction Blocks)
Modbus Serial Features	
Serial Interface	1x RS-485 Interface
Galvanic Isolation	1kV Photoelectric Isolation
Serial Operation Modes	Modbus RTU Master, Modbus ASCII Master, Serial Passthrough
Baud Rates	1200 bps to 115.2 Kbps
Maximum Number of Modbus Slave Devices	32
Modbus Function Codes Supported	01H, 02H, 03H, 04H, 05H, 06H, 0FH, 10H
Maximum Number of Modbus Commands	100
Electrical / Environmental	
DC Input Voltage	24 VDC (9V-30V), 110mA @ 24VDC
Operating Temperature	-40°F to 158°F (-40°C to 70°C)
Relative Humidity	5% to 95% RH (non-condensing)
Certification	CE Compliant to EMC Test Standards
Physical	
Dimensions (W × H × D)	1.0in × 3.9in × 3.5in (25mm × 100mm × 90mm)
Mounting	35mm (1.4in) DIN Rail
Enclosure Protection Rating	IP20
Power Interface	3-Pin Terminal Block

Dimensions



Product Recommendations

Model Name	Network Interface 1	Network Interface 2
GT300-EI-2RS485	EtherNet/IP DLR	Modbus RTU/ASCII Master
GT200-MT-EI	EtherNet/IP	Modbus TCP