



GT300-EI-2RS485

Modbus / EtherNet/IP (DLR) Gateway

Introduction

The GT300-EI-2RS485 gateway enables seamless integration between serial devices (Modbus RTU/ASCII and passthrough serial) and an EtherNet/IP DLR network. It supports up to 64 Modbus slave devices and provides a stable and reliable communication link to EtherNet/IP systems. The gateway supports DLR redundancy with millisecond-level self-healing, making it ideal for demanding industrial environments.

In-Depth Modbus Support

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

01H to 06H, 0FH, 10H, and 17H.

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



Strong Anti-Interference Capability

Built-in RS-485 terminal resistors helps maintain signal integrity and ensures stable communication.

Serial port settings can be quickly adjusted via software.



Strong EMI Resistance

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



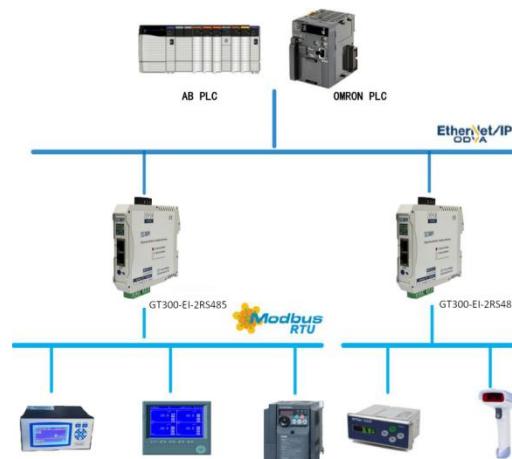
Wide Range of Applications

Features dual Ethernet ports and functions as an EtherNet/IP adapter. Supports DLR mode, enabling full redundancy compatibility with a DLR ring network.



Typical Application

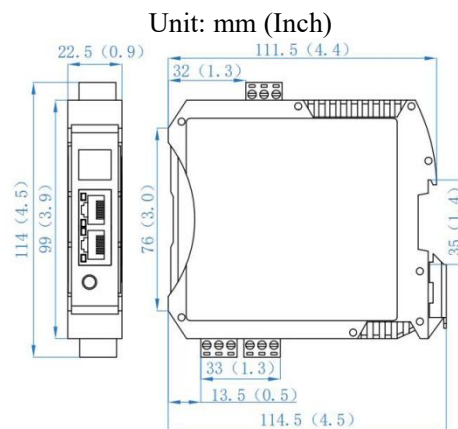
The GT300-EI-2RS485 gateway connects Modbus RTU/ASCII devices to EtherNet/IP networks and supports PLC platforms such as ControlLogix, CompactLogix, ABB, and Omron. It features two RS-485 ports for easy integration.



Technical Specifications

EtherNet/IP Features	
Ethernet Interface	2x RJ45 10/100/1000M Ethernet ports with built-in switch
Ethernet Communication Protocol	ODVA-compliant EtherNet/IP
EtherNet/IP Operation Mode	EtherNet/IP Adapter DLR Node (Beacon Mode)
Maximum Input and Output Bytes	1444 Bytes In/Out (I/O Messaging) 2000 Bytes In/Out/ (MSG Instruction Blocks)
EtherNet/IP Communication Modes Supported	Implicit Messaging (I/O Messaging) Explicit Messaging (MSG Instruction Blocks)
Modbus Serial Features	
Serial Interface	2x RS-485 Interfaces
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 per RS-485 Interface, 64 Total
Modbus Function Codes Supported	01H, 02H, 03H, 04H, 05H, 06H, 0FH, 10H, 17H
Maximum Number of Modbus Commands	100 per RS-485 interface, 200 Total
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)	0.9in × 3.9in × 4.5in (22.5mm × 99mm × 114.5mm)
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
GT00-EI-RS485	EtherNet/IP	Modbus RTU/ASCII Master
GT200-MT-EI	EtherNet/IP	Modbus TCP