WIMAN WT600M — Ethernet PRO Gateway

Smart RS485 / LoRa to Ethernet Gateway | PRO Series | DIN Rail & Wall Mount

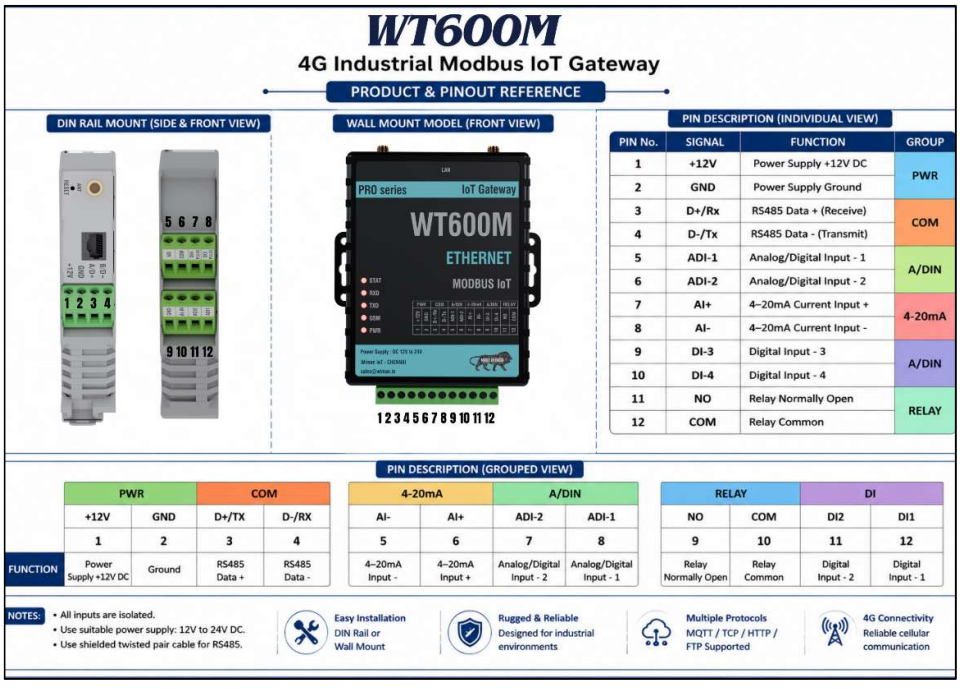
PRODUCT OVERVIEW

The Wiman Ethernet PRO Gateway Series is a smart RS485/TCP Modbus/IO/LoRa to Ethernet gateway designed to expand data communication over wired and wireless networks with secure, two-way connectivity. It enables seamless transmission of Modbus slave and IO data to centralized servers — without requiring in-depth protocol expertise.

The gateway supports single or multiple slaves with configurable polling intervals and flexible integration via TCP, HTTP, and MQTT. All parameters are configurable via Web Configuration, PC Utility, IP Utility, or Server IP Commands with remote update capability. With built-in smart redundancy and an inbuilt data logger, logs are stored locally during outages and auto-synced on reconnection — ensuring zero packet loss.

KEY FEATURES

- RS485 / TCP Modbus / LoRa / IO with Data Logger
- Shared LAN Port for Modbus & Event Transmission
- Modbus Data Type Conversion, Byte Order & Scaling
- Read up to 2400 Modbus Registers Dynamically
- LoRa Support (Converters, Repeaters, IO Nodes)
- TCP / HTTP / MQTT with GET/POST Support
- Flexible Polling (Scheduled / Query / DI / Offline)
- Local Console for Packet Tracing
- 1× RS485 + 1× LAN Port (Event + TCP Modbus)
- Configurable Multiple Slave IDs & Address Range
- Supports up to 64 Slaves (RS485 + TCP + LoRa)
- Transparent Modbus Read/Write Commands
- Data Logging During Network/Server Disconnection
- Customizable JSON Packet Formatting
- Edge Triggers: Relay Control & Modbus Write
- Server Transaction Monitoring (Tx/Rx, Response Time)



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TARGET APPLICATIONS

- Smart Metering & Utilities
- Power Monitoring & Control
- PLC Automation & Industry 4.0
- Temperature Monitoring & Alerts
- Pump Control & Flow Measurement
- SCADA, Solar & Wind Monitoring
- Central Monitoring & Control Systems
- ATM, Cold Storage, Home Automation

ETHERNET SPECIFICATION

Interface	RJ45 — 10BASE-T / 100BASE-TX (Auto)
Speed	10/100 Mbps, Half/Full Duplex (Auto-Negotiation)
TCP/IP Protocols	TCP, UDP, ICMP, IPv4, ARP, IGMP
Modbus Protocol	Modbus RTU Master, Modbus TCP Master
Configuration	Web Config, Serial/IP Utility, IP Commands

SERIAL SPECIFICATION

Standard	RS485 (Optional: TTL or RS232)
Config Port	Type-C USB
Baud Rates	2400 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200 bps

INTERFACES

Power Supply	12–24 V DC (Reverse Polarity Protection)
Analog/Dig. In	2× 0–24V Analog/Digital Inputs
Digital Input	2× 0–24V Pure Digital Inputs
Current Input	1× 4–20mA
Relay Output	1× Relay Output
RS485 Port	Multiple Modbus Slave Device Connection
LAN Port	TCP Modbus Slaves & Event Transfer to Cloud
USB Port	Type-C (Device Configuration via Utility)
LED Indicators	Power / IP / Modbus Communication Status

PIN CONFIGURATION (DIN Rail & Wall Mount)

DIN	FM	Section	Label	Type	Purpose
1	1	Power	**+12V**	Input	DC Power +12V to +24V
2	2	Power	**GND**	Input	Power Ground
3	3	COM	**D+/TX**	Comm	RS485 Positive / TX
4	4	COM	**D-/RX**	Comm	RS485 Negative / RX
5	8	4–20 mA	**AI–**	Analog	Current Input –
6	7	4–20 mA	**AI+**	Analog	Current Input +
7	6	ADI	**ADI-2**	Analog/Digital	Configurable Input
8	5	ADI	**ADI-1**	Analog/Digital	Configurable Input
9	11	Relay	**NO**	Output	Normally Open Contact
10	12	Relay	**COM**	Output	Relay Common
11	9	DI	**DI3**	Digital/Pulse	Digital Input
12	10	DI	**DI4**	Digital/Pulse	Digital Input

GENERAL COMMUNICATION

TX Protocol	Configurable TCP / HTTP / MQTT
HTTP Methods	Configurable GET / POST
Format	Configurable JSON / CSV
Device Config	Serial / IP Utility / Web / Server IP Commands
Polling Modes	RS485 RTU Modbus, TCP Modbus Master
OTA Updates	IP Utility / Web Config / IP Commands
LoRa Support	Inbuilt LoRa – Wireless RS485

GENERAL SPECIFICATIONS

Connector (Lite)	Micro-Fit 5.0 — 8 Pin (2 Power / 2 Modbus / 3 IO)
Connector (PRO/LPRO)	Micro-Fit 5.0 — 12 Pin (2 Power / 2 Modbus / 8 IO)
DIN Rail (L×W×H)	113.65 × 98.54 × 22.60 mm
Wall Mount (L×W×H)	100 × 85 × 24 mm
Weight	160 g
Operating Voltage	12–24 V DC
Temperature	−30 °C to +85 °C

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