WIMAN WT610 — Ethernet LITE Gateway

Smart RS485 / LoRa to Ethernet Gateway | Wired Industrial IoT Series

PRODUCT OVERVIEW

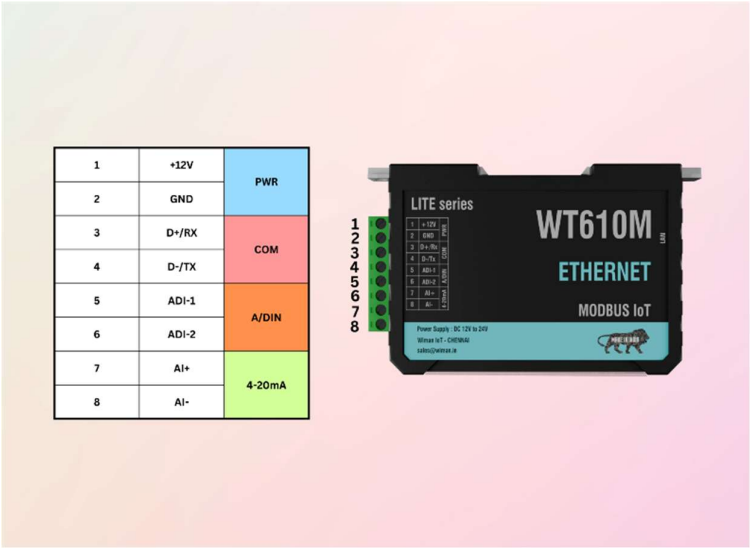
The Wiman Ethernet Gateway Series is a high-performance industrial IoT gateway that connects **Modbus RTU (RS485), Modbus TCP, I/O, and LoRa devices** to Ethernet networks for reliable data acquisition and remote monitoring. Supporting **TCP, HTTP, and MQTT** protocols, it enables seamless integration with cloud and SCADA platforms. An intelligent built-in data logger stores data during network outages and automatically synchronizes it upon reconnection, while web-based configuration and remote management simplify deployment and maintenance.

KEY FEATURES

- ✓ RS485 / TCP / IO with Data Logger
- ✓ Up to 17,500 Logs Per Server
- ✓ Reads up to 1800 Modbus Words
- ✓ SSL Security for 4G
- ✓ Scheduled / Event / Offline Polling
- ✓ SMS Configuration & Alerts
- ✓ Separate Packet Format Per Server
- ✓ RS485 / TCP / IO with Data Logger
- ✓ Time-Based, Query-Based & Offline Polling
- ✓ Supports 32 Modbus Slaves
- ✓ TCP / HTTP / MQTT Communication
- ✓ JSON / CSV Configurable Formats
- ✓ Edge Triggers: Relay / Modbus Write
- ✓ OTA Remote Firmware Update
- ✓ Local Console for Packet Monitoring
- ✓ Time-Based, Query-Based & Offline Polling

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



Din Rail Model

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PIN CONFIGURATION

Pin	Label	Type	Purpose
1	**+12V**	Input	DC Power +12V to +24V
2	**GND**	Input	Power Ground
3	**D+/TX**	Comm	RS485 Positive / TX
4	**D-/RX**	Comm	RS485 Negative / RX
5	**ADI-2**	Analog/Digital	Configurable Input
6	**ADI-1**	Analog/Digital	Configurable Input
7	**AI+**	4–20 mA+	Current Input +
8	**AI–**	4–20 mA−	Current Input – (GND)

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

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)
Dimensions (L×W×H)	100 × 85 × 24 mm
Weight	160 g
Operating Voltage	12–24 V DC
Temperature	−30 °C to +85 °C
DIN Rail (L×W×H)	122.86 × 105.66 × 74.46 mm

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