WIMAN WT700M — Wi-Fi PRO Gateway

Intelligent RS485 / LoRa to Wi-Fi Gateway | PRO Series | DIN Rail Model

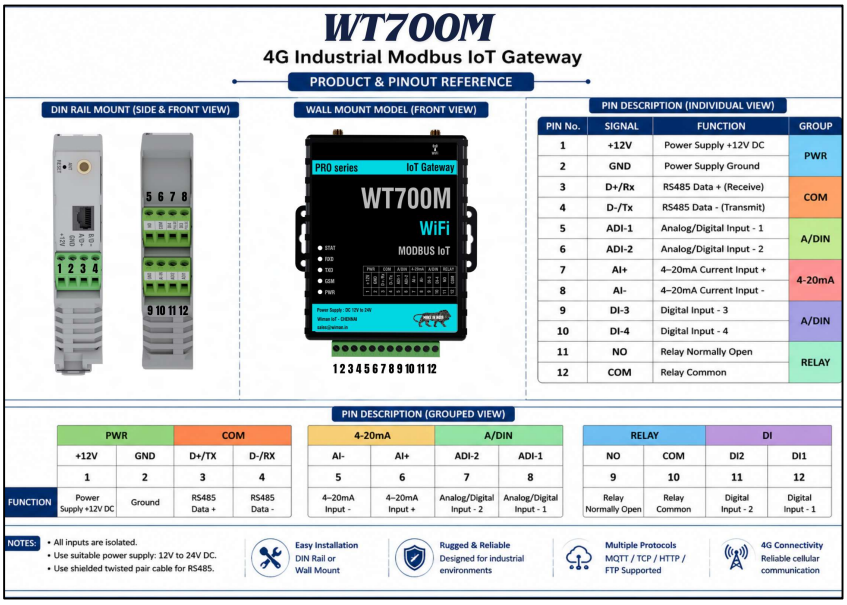
PRODUCT OVERVIEW

The Wiman Wi-Fi PRO Gateway Series is an intelligent RS485/TCP Modbus/IO/LoRa to Wi-Fi gateway designed to seamlessly connect field devices to cloud platforms over secure wireless networks. It simplifies industrial data communication by eliminating complex protocol handling, enabling reliable two-way connectivity without requiring in-depth technical expertise.

The gateway supports single or multiple Modbus slaves with configurable polling intervals and transmission 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 Wi-Fi redundancy paths and an inbuilt data logger, data is stored locally during outages and automatically synchronized on reconnection — ensuring zero packet loss.

KEY FEATURES

- RS485 / IO / LoRa with Data Logger
- Configurable Multiple Slave IDs & Address Range
- Supports up to 64 Slaves (RS485 & LoRa Nodes)
- Transparent Command for Modbus Read/Write
- Data Logging During Server/Network Disconnection
- Configurable JSON Packet Formatting
- Edge Trigger Conditions: Relay & Modbus Write
- Server Transaction Monitoring (Tx/Rx, Response Time)
- 2 SSID Options — Auto Available Network Selection
- Modbus Data Type Conversion, Byte Order & Scale Factor
- Read up to 2400 Modbus Words Dynamically
- LoRa Options — Converters, Repeaters & IO Nodes
- TCP / HTTP / MQTT with GET/POST Support
- Flexible Polling (Schedule / Query / DI / Offline)
- Local Console for Data Packet Tracing



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TARGET APPLICATIONS

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

WI-FI SPECIFICATION

Band	Single Stream in 2.4 GHz ISM Band
Protocols	DHCP, DNS, TCP/IP (IPv4), UDP, HTTP, HTTPS
Security	IEEE 802.11 WEP, WPA, WPA2
Certification	Wi-Fi Certified™ b/g/n, WPA™, WPA2™ (Enterprise & Personal)
Output Power	18.5 dBm (802.11b, 11 Mbps)

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
USB Port	Type-C (Device Configuration via Utility)
LED Indicators	Power / IP / Modbus Communication Status

PIN CONFIGURATION (DIN Rail Model — 12 Pin)

Pin	Section	Label	Type	Purpose
1	Power	**+12V**	Input	DC Power +12V to +24V
2	Power	**GND**	Input	Power Ground
3	COM	**D+/TX**	Comm	RS485 Positive / TX
4	COM	**D-/RX**	Comm	RS485 Negative / RX
5	4–20 mA	**AI–**	Analog	Current Input –
6	4–20 mA	**AI+**	Analog	Current Input +
7	ADI	**ADI-2**	Analog/Digital	Configurable Input
8	ADI	**ADI-1**	Analog/Digital	Configurable Input
9	Relay	**NO**	Output	Normally Open Contact
10	Relay	**COM**	Output	Relay Common
11	DI	**DI3**	Digital/Pulse	Digital Input
12	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
Weight	160 g
Operating Voltage	12–24 V DC
Temperature	−30 °C to +85 °C

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