WIMAN WT400 — 4G LTE PRO Gateway

Robust 4G LTE Industrial IoT Gateway | Dual-Server | PRO Series

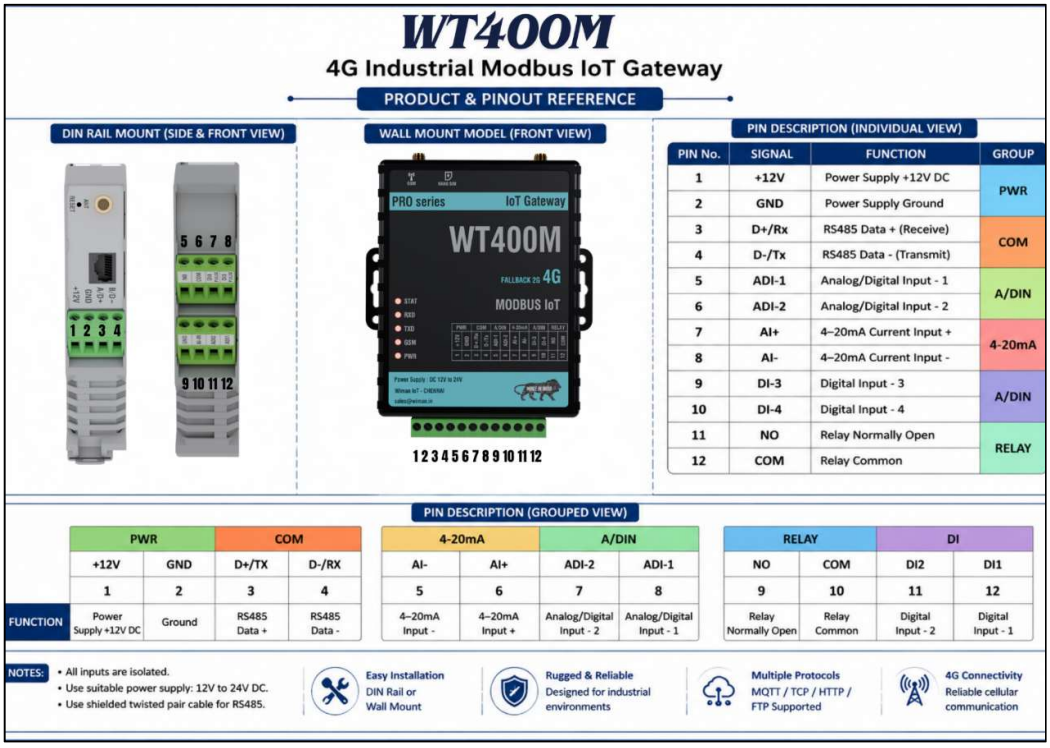
PRODUCT OVERVIEW

The Wiman PRO 4G Gateway is a robust industrial IoT solution delivering reliable connectivity over cellular 4G networks, enabling seamless integration of RTU/TCP Modbus, IO, and LoRa devices with cloud servers. Operating exclusively on 4G LTE, it is ideally suited for remote and industrial environments where wired LAN or Wi-Fi infrastructure is unavailable.

The gateway supports secure bidirectional communication via TCP, HTTP, and MQTT with SSL encryption, and dual-server functionality for simultaneous delivery to two independent servers. Inbuilt data logging with expandable SD card storage prevents data loss during outages — logs sync automatically on reconnection. Remote configuration is supported via SMS, PC utility, FTP, or server IP commands.

KEY FEATURES

- RS485 / TCP / IO with Data Logger
- Up to 17,500 Logs per Server
- Reads up to 3000 Modbus Words
- Data Stored During Network Failure
- SSL Security for 4G
- Scheduled / Event / Offline Polling
- SMS Configuration & Alerts
- Local Console for Packet Monitoring
- Dual Server Support (64 MB + 64 MB Logger)
- Supports 64 Modbus Slaves
- Modbus Read/Write (Transparent + JSON)
- TCP / HTTP / MQTT Communication
- Configurable JSON / CSV Formats
- Edge Triggers: Relay / Modbus Write
- OTA Remote Firmware Update
- Separate Packet Format per Server



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TARGET APPLICATIONS

- Smart Meter Reading
- Power Monitoring & Control
- PLC & Industrial Automation (Industry 4.0)
- Temperature & Alert Systems
- Pump & Flow Monitoring
- SCADA, Solar & Windmill Monitoring
- ATM, Cold Storage, Home Automation

GSM / LTE BAND SUPPORT

Network Type	Region	Bands
LTE FDD (4G)	Asia	B1 / B3 / B5 / B8
LTE FDD (4G)	Europe	B1 / B3 / B5 / B7 / B8 / B20 / B28
LTE TDD (4G)	Asia	B34 / B38 / B39 / B40 / B41
LTE TDD (4G)	Europe	B38 / B40 / B41
GSM (2G)	Asia	B3 / B8
GSM (2G)	Europe	B2 / B3 / B5 / B8

BANDWIDTH & SIM

Bandwidth	1.4 / 3 / 5 / 10 / 15 / 20 MHz
SIM Interface	Internal SIM (1.8V / 3V)

SERIAL SPECIFICATION

Interface	RS232 / RS485
Baud Rates	2400 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200 bps
Data Bits	7 / 8 bits
Parity	None / Even / Odd

INTERFACES

Power Supply	12–24 V DC (Reverse Polarity Protection)
Analog/Dig. In	2× (0–24V) Configurable
Digital Input	2× (0–24V)
Current Input	1× (4–20mA)
Relay Output	1 Channel
RS485	Modbus Device Connection
USB Type-C	PC Configuration
RJ45 Ethernet	LAN Communication
Antenna	External GSM Antenna
LEDs	Power / GSM / Modbus 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

Transport	TCP / HTTP / MQTT
Security	SSL (4G)
HTTP Methods	GET / POST
Data Format	JSON / CSV
Config	SMS / PC Utility / FTP / Server IP Commands
OTA Update	FTP / HFS / TCP / SMS / IP Command

GENERAL SPECIFICATIONS

Connector Type	Micro-Fit 5.0 (8-pin / 12-pin)
DIN Rail (L×W×H)	113.65 × 98.54 × 22.60 mm
Wall Mount (L×W×H)	100 × 85 × 24 mm
Weight	130 g
Operating Voltage	12–24 V DC
Temperature	−30 °C to +85 °C

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