WIMAN WT460M — 4G + LAN MAX Gateway

Dual-Network Industrial IoT Gateway | 4G LTE + Ethernet + Wi-Fi | MAX Series

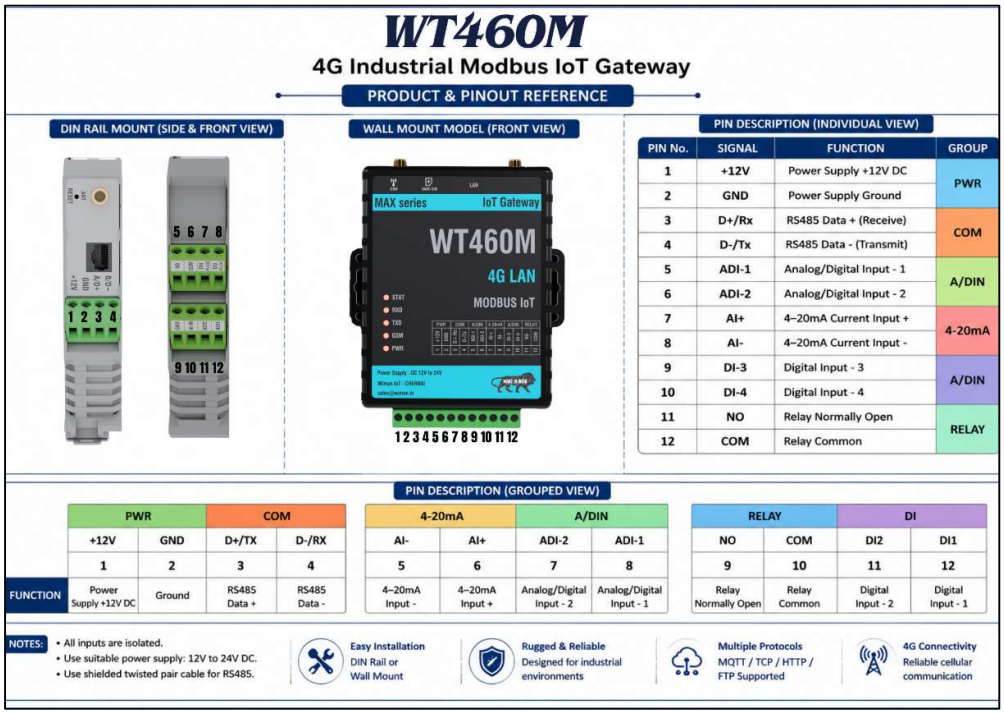
PRODUCT OVERVIEW

The Wiman MAX Series Gateway delivers robust and secure IoT connectivity for industrial and utility applications. Designed to support RTU/TCP Modbus, Digital/Analog IO, and LoRa nodes, it enables seamless data transmission over 4G LTE, LAN (Ethernet), and Wi-Fi networks simultaneously. With dual-server communication, data is transmitted to two servers concurrently — ensuring redundancy and uninterrupted operation.

Advanced smart polling — Edge-based, Time-based, IO-based, and Offline Log-based — optimizes data flow and reduces server load. Built-in data logging with expandable SD storage ensures zero data loss during outages. Remote configuration via PC utility, FTP, SMS, or server IP commands ensures flexible deployment and maintenance for the most demanding industrial environments.

KEY FEATURES

- RS485 / TCP Modbus / IO with Data Logger
- Up to 17,500 Logs per Server
- Read up to 3000 Modbus Registers (Dynamic)
- Data Logging During Network/Server Outage
- SSL Security with Multiple Protection Options
- Flexible Polling (Schedule/Query/DI/Offline)
- SMS Config, Alerts & Remote Control
- Server Transaction Monitoring (Tx/Rx, Time)
- Dual Server Logging (64 MB + 64 MB)
- Supports up to 64 Slaves (RS485 + TCP Combined)
- Transparent / JSON Modbus Read/Write
- TCP / HTTP / MQTT (GET/POST Support)
- Custom JSON Packet Formatting
- Edge Trigger: Relay Control & Modbus Write
- Local Console — Dual Server Packet Tracing
- Inbuilt Modbus Poll/Scanner Utility



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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
- 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

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, TCP Modbus Master
Configuration	Web Config, Serial/IP Utility, IP Commands

SERIAL SPECIFICATION

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

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	130 g
Operating Voltage	12–24 V DC
Temperature	−30 °C to +85 °C

PIN CONFIGURATION

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	TCP / HTTP / MQTT — 4G with SSL / LAN without SSL
HTTP Methods	Configurable GET / POST
Format	Configurable JSON / CSV
Device Config	SMS / PC Utility / FTP / Server IP Commands
RS485 Modes	Transparent / Modbus Polling (RS232 optional)
OTA Updates	FTP / HFS / TCP Utility / SMS / IP Command
LoRa Support	Inbuilt LoRa — Enable Wireless RS485

INTERFACES

Power Supply	12–24 V DC (Reverse Polarity Protection)
Analog/Dig. In	2× (0–24V) Analog/Digital Voltage Input
Digital Input	2× (0–24V) Pure Digital Input
Current Input	1× (4–20mA) Current Input
Relay Output	1× Relay Output
LED Indicators	Power / GSM / Modbus Communication Status
RS485 Port	Multiple Modbus Slave Device Connection
USB Port	Type-C — PC Utility Configuration
Antenna	External GSM Antenna

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