



WIMAN

WT410 — 4G LTE LITE Gateway

Compact 4G LTE / 2G Fallback Industrial IoT Gateway | Cellular Series

PRODUCT OVERVIEW

The **Wiman LITE 4G Gateway** is a compact industrial IoT gateway designed for reliable **4G LTE connectivity with 2G fallback**. It collects data from **Modbus RTU (RS485)** devices such as energy meters, PLCs, sensors, and controllers, then securely transmits it to cloud or SCADA systems using **TCP, HTTP, or MQTT**. An intelligent built-in data logger stores data during network outages and automatically synchronizes it when connectivity is restored, while remote configuration and firmware updates reduce maintenance visits.

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
- ✓ 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

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

1	+12V	PWR
2	GND	
3	D+/RX	COM
4	D-/TX	
5	ADI-1	A/DIN
6	ADI-2	
7	AI+	4-20mA
8	AI-	



Din Rail Model



PIN CONFIGURATION

Pin	Label	Type	Purpose
1	+12V	Input	DC Power +12V to +24V
2	GND	Input	Power Ground
3	D+/TX	Com	RS485 A /+ / Txd (RS232)
4	D-/RX	Com	RS485 B - / Rxd (RS232)
5	ADI-1	Analog/Digital	Configurable (Digital / Pulse), Voltage Value
6	ADI-2	Analog/Digital	Configurable (Digital / Pulse), Voltage Value
7	AI+	4–20 mA+	Current Input +
8	AI–	4–20 mA–	Current Input – (GND)

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
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
LED Indicators	Power / GSM Network / Modbus Status

GENERAL COMMUNICATION

Transport	TCP / HTTP / MQTT
Security	SSL (4G)
HTTP Methods	GET / POST
Data Format	JSON / CSV
Configuration	SMS / PC Utility / FTP / Server IP Commands
OTA Update	FTP / HFS / TCP / SMS / IP Command
Modbus Modes	Transparent + JSON Read/Write
Polling Modes	Scheduled / Event / Offline

GENERAL SPECIFICATIONS

Dimensions	22.6 × 99 × 113.65 mm
Weight	130 g
Operating Voltage	12–24 V DC
Temperature	–30 °C to +85 °C
Connector	Micro-Fit 5.0 (8-pin / 12-pin)
DIN Rail (L×W×H)	122.86 × 105.66 × 74.46 mm

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