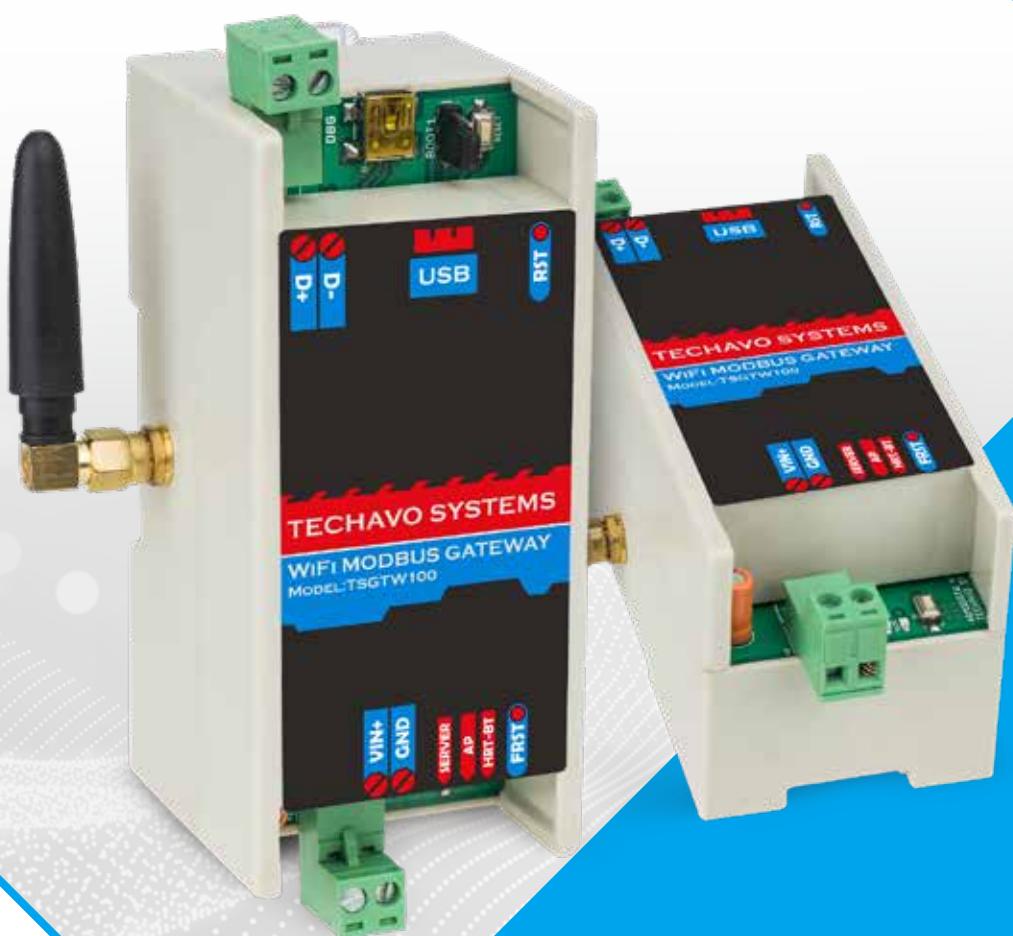
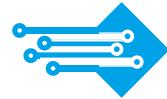


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WIFI MODBUS GATEWAY:

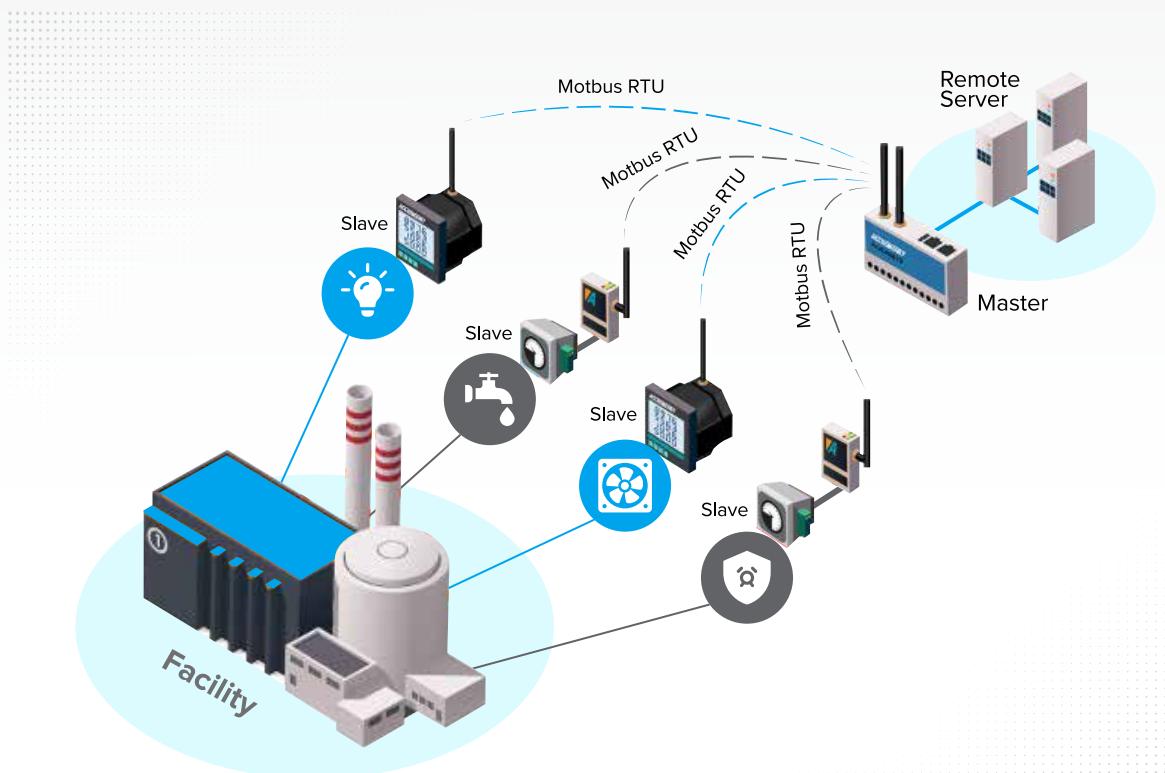
Connect Your Legacy
Devices to the Cloud

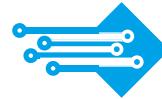




PRODUCT OVERVIEW

The **WiFi Modbus Gateway** is an industrial-grade IoT communication bridge that connects legacy Modbus-based devices to modern IP networks using WiFi. Designed for both **transparent (pass-through)** and **polling-based** operation, it supports a wide range of industrial protocols including **MQTT, Modbus TCP, HTTP, and FTP** — enabling seamless integration with cloud, SCADA, and analytics platforms.





KEY FEATURES



WiFi Connectivity:

Reliable and secure 2.4GHz WiFi support for long-range wireless communication.



Modbus RTU to TCP Bridge:

Supports **Modbus RTU (RS485)** to **Modbus TCP/IP** translation and tunneling.



Dual Operation Modes:

- **Transparent Mode:** Raw pass-through from Modbus Serial to TCP/WiFi.
- **Polling Mode:** Internal register polling, buffering, and pushing over TCP/MQTT/HTTP.



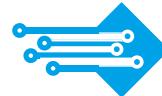
Multiple Protocol Support:

- **MQTTS** (TLS-secured MQTT) for cloud-based telemetry
- **HTTP** for RESTful API integration
- **FTP** for file-based log uploads
- **Modbus TCP** for industrial controllers and SCADA systems



Secure Communication:

- SSL/TLS support for MQTT over SSL
- Configurable certificate-based authentication
- Optional basic auth for HTTP endpoints



Local & Remote Configuration:

- Embedded web server for configuration
- Supports OTA firmware updates via HTTP or FTP



Flexible Data Logging:

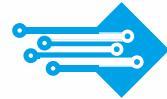
- Push data to MQTT/HTTP endpoints periodically or on change
- Store logs locally for FTP upload



Industrial Design

- Wide voltage input range (9-30V DC)
- DIN-rail mountable compact enclosure
- Watchdog-protected operation for mission-critical deployments.





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USE CASES



Remote Monitoring of Modbus Devices



Factory Automation Systems



SCADA Integration for Legacy Systems



Cloud-Connected Sensors and PLCs

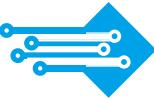


Smart Grid and Energy Monitoring



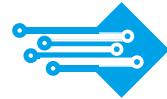
Water Treatment and Utility Plants





TECHNICAL SPECIFICATIONS

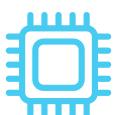
Feature:	Specification:
01 WiFi Support	802.11 b/g/n (2.4GHz)
02 Serial Ports	RS485 (Modbus RTU)
03 Protocol Support	Modbus RTU, Modbus TCP, MQTT, HTTP, FTP
04 Operation Modes	Transparent / Polling
05 Security	SSL/TLS for MQTT and HTTPS
06 MQTT Features	QoS 0/1/2, Will, Retain, JSON Payloads
07 Web Interface	Local configuration via Web UI
08 OTA Updates	Via HTTP / FTP
09 Power Supply	9-30V DC
10 Mounting	DIN Rail / Panel Mount
11 Enclosure	IP30, Industrial ABS / Metal Option
12 Certifications	RoHS, CE (upon request)



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NEED CUSTOMIZATION?

Customization Options:



Custom
Protocol
Integration



White-labeled
Web UI



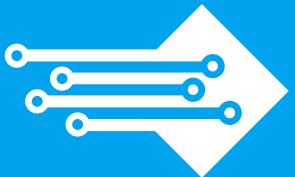
Hardware with
Cellular, Ethernet,
or LoRaWAN

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