IOT GATEWAY

TIG-101

4G | Wi-Fi

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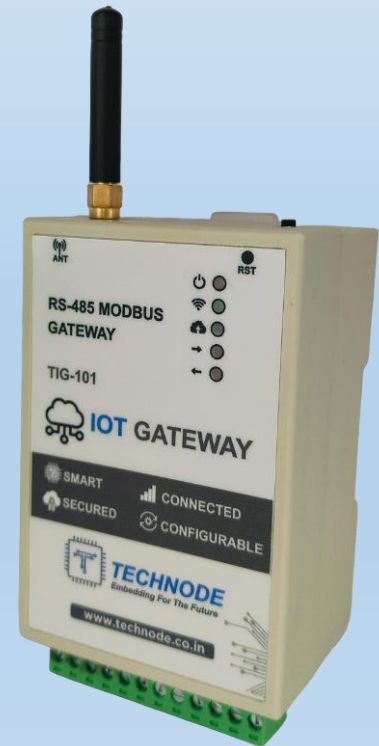**TECHNODE**
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FEATURES

- MODBUS RTU RS485 INPUT PORT
- TWO 4-20mA ANALOG INPUT PORTS
- TWO DIGITAL INPUT PORTS
- 4G + Wi-Fi CONNECTIVITY
- MQTT BASED CLOUD CONNECTIVITY
- JSON FORMATTED PAYLOAD DATA
- LOCAL CONFIGURATION VIA EMBEDDED WEB SERVER
- REMOTE CONFIGURATION VIA MQTT CLIENT
- CONNECT WITH TECHNODE NODEX IOT DASHBOARD SOFTWARE
- SUPPOR BOTH MODBUS READ & WRITE
- CONFIGURABLE SCAN DELAY (1 MIN – 24 HOURS)
- INTERNAL MEMEORY TO STORE DATA DURING NETWORK LOSS

RS-485 MODBUS GATEWAY

TIG-101

IOT GATEWAY

SMART
SECURED
CONNECTED
CONFIGURABLE

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ABOUT DEVICE

Technode IOT Gateway Model, TIG-101 is a Modbus to 4G/Wi-Fi IOT Gateway. Gateway Device can be connected to any MQTT Enabled Cloud Server for Data Logging purpose. Device send data to cloud server using MQTT Protocol in standard JSON format. Device can be connected to internet via either Wi-Fi or 4G SIM Options. Device has unique feature which allows use of both Wi-Fi and 4G at a time. If Wi-Fi network fails the device will automatically shift to 4G SIM option. Gateway Provide seamless Network Connectivity and Designed to work 24X7. Rugged ABS enclosure along with DIN Rail and wall mounting option Makes it suitable for any Industrial environment. Gateway configurations can be accessed or changed anytime over MQTT. Gateway device also support OTA (Over the Air Updates) of Firmware in case of any Maintenance updates are required.

APPLICATIONS

- Water Flow Meter Data Logging
- Temperature, Pressure Data Logging
- VFD Control and Solar Monitoring
- Energy Metering and Monitoring
- PLC Data Logging
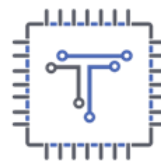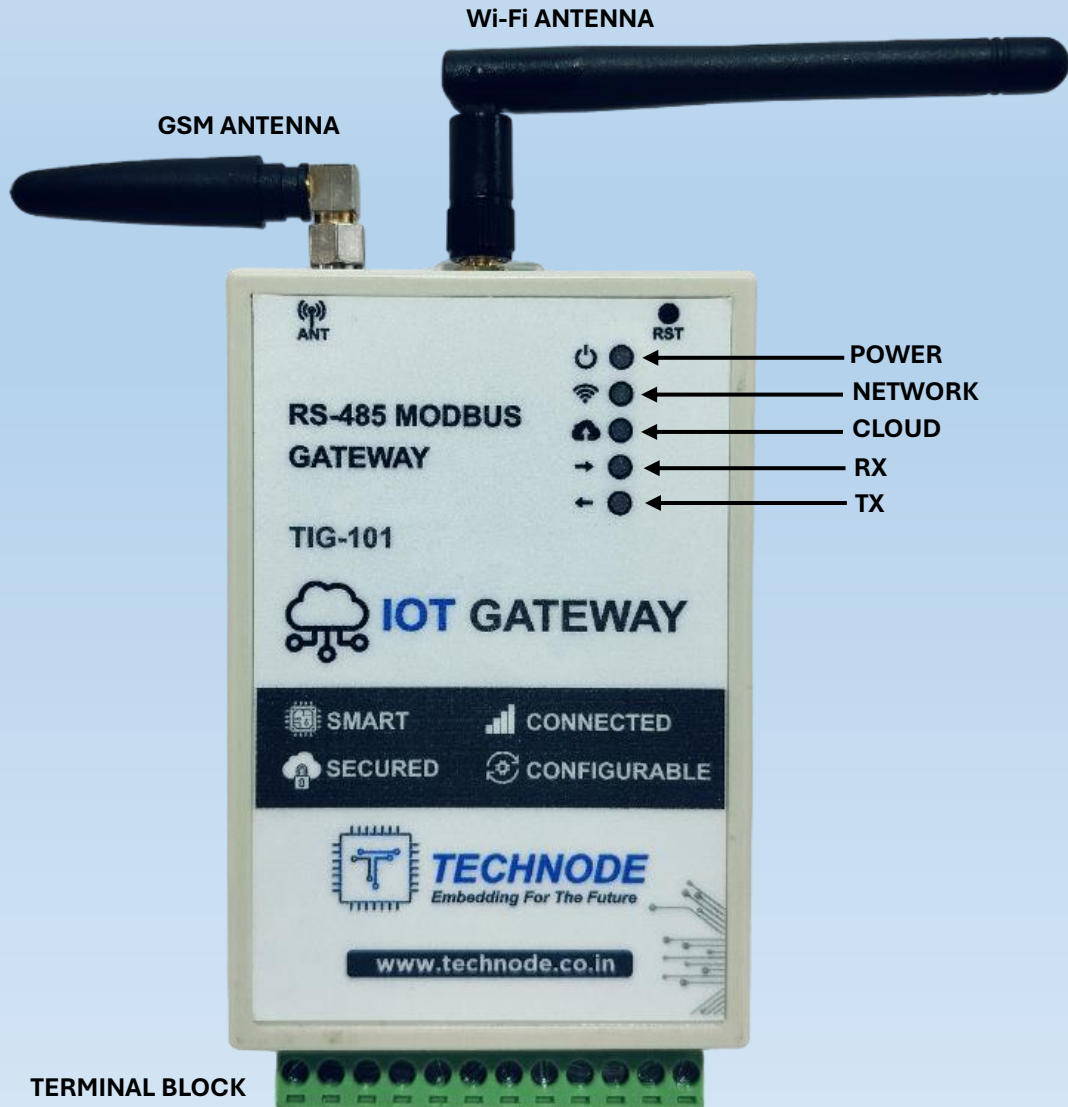- OEE Monitoring and Wireless Control

CONTACT US

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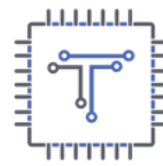
SPECIFICATIONS

Sr. No.	Parameter	Specification
1	Input Supply	12V-24V Min 3A
2	Analog Input	4-20mA (current signal)
3	MODBUS	RS458 MODBUS RTU INPU
4	Cellular	4G (B1/B3/B5/B8 B34/B38/B39/B40/B41) LTE-TDD/FDD 2G GSM (800, 850, 900, 1800)
4	Wi-Fi	10/100 MBPS 802.11 WLAN 2.4 GHz radio
5	SIM Type	2G/ 4G Mini Size (Original SIM size)
6	Terminal	Removable Screw terminal
7	Indications	3mm LED (power, Network, Cloud, Rx, Tx)
8	Operating Temperature	0-55 C
9	Operating Humidity	95% RH
10	Dimensions	103 X 73 X 53 mm

CONFIGURATION

The Gateway Device can be configured locally via Embedded Web Server or Remotely via MQTT Client. The parameters such as slave ID, Baud rate, Parity, scan delay etc. can be configured easily. Up to 200 Modbus tags can be read at a time. The read delay can be set between 1 Minute to 24 hours. Gateway will continuously scan the AI and DI inputs, if event is enabled on AI & DI inputs then immediate events are trigger for any change in parameter values. The Analog input signals can be scaled as per the sensor's requirement. Digital Inputs are polling based. The Input supply to the Gateway should be 12V -28V 3A DC. Network selection can be done as per site's requirement. If site does not have Wi-Fi, SIM based 4G option can be selected from the configuration menu. In case of network Failure, Gateway will store data into its internal Memory and Push it to cloud once Network is available. Gateway has internal Memory of 12MB to avoid any data loss during network Failure.

HARDWARE INFORMATION

Wi-Fi ANTENNA

GSM ANTENNA

RS-485 MODBUS GATEWAY

TIG-101

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- POWER
- NETWORK
- CLOUD
- RX
- TX

TERMINAL BLOCK

Specifications	Values
PROCESSOR	Dual core, 32 Bit Microprocessor
Cellular Device	Qualcomm
Wi-Fi Device	802.11 WLAN controller
MODBUS	RS485 RTU 2 Wire
Power Supply	24VDC 2A Min
Connection	Removable PBT Screw