

Modbus RS485/TCP to Cellular MQTT
Gateway

Introduction

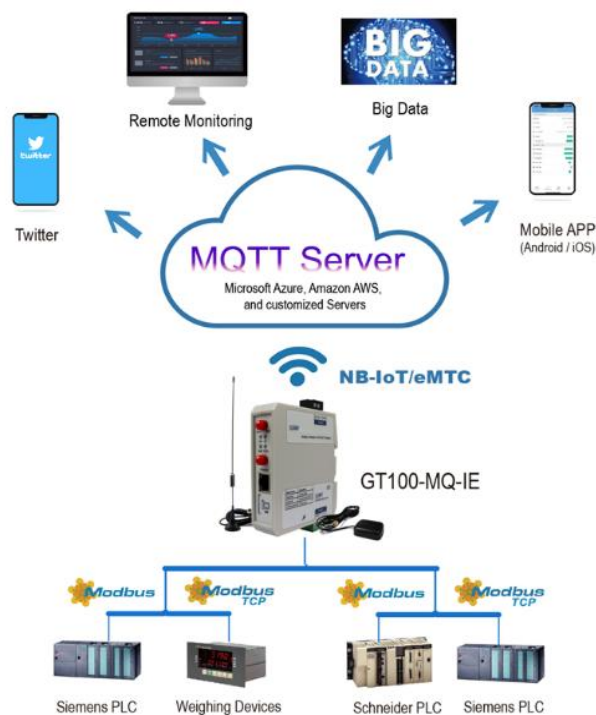
SST Automation's GT100-MQ-IE is a gateway with GPS functionality that can exchange data between Modbus Serial (RTU/ASCII) through RS-485, Modbus TCP through Ethernet, and an MQTT Broker over a wireless LTE IoT cellular network. The gateway can connect Modbus RTU/ASCII Master/Slave devices and Modbus TCP Client/Server devices to the IoT Cloud by MQTT.

Features and Benefits

- One RS-485 Interface - Modbus Master/Slave
- One Ethernet Interface - Modbus TCP Client/Server
- eMTC / NB-IoT network is always online. Supports connection detect and auto reconnect functions
- TLS V1.2 and DTLS 1.0/1.2. Supports custom Client ID
- Supports for MQTT version 3.1.1
- Customizable JSON data format
- Supports two Message Types: Register message or Property message
- Real-time device status monitoring on the IoT Cloud Platform
- Applies to industrial field with high reliability. Supports real-time monitoring and automatic reset
- Supports GPS
- 3 Year Hardware Warranty



Typical Use Case



Modbus RTU/ASCII and Mod-bus TCP devices connected to the IoT Cloud by MQTT.

Modbus RS485/TCP to Cellular MQTT

Gateway

Technical Specifications

Modbus Features	
Operation Mode	Modbus RTU/ASCII Master/Slave, Modbus TCP Client/Server
Physical standard	RJ-45 , RS-485
Baudrate	600 bps to 115.2 kbps
Maximum Modbus RTU/ASCII Slave and Modbus TCP Server Devices	31, 4
Maximum Modbus RTU/ASCII Master Modbus TCP Client Devices	1
Maximum Number of Commands	100 (As Modbus Master)
MQTT Features	
Operation Mode	Generic MQTT
Max Broker Connections	1
Max Data Points	1000 data point tags mapped to IoT
Security	TLS V1.2
Supported Data Formats	JSON
Electrical / Environmental	
DC Input Voltage	24 VDC (11 to 30 VDC)
Operating Temperature	-4°F to 140°F (-20°C to 60°C); Humidity 5% to 95%
Certification	CE Compliant
Physical	
Dimensions (W x H x D)	1.0 x 3.9 x 3.5 in 25 x 100 x 90 mm
Mounting	DIN Rail
Ethernet Port	(1) 10/100 Base-T, RJ45 Connector
Serial Port	(1) 3-Pin Terminal Block
Power Interface	(1) 3-Pin Terminal Block

Dimensions

