

Introduction

SST Automation's GT100-MQ-RS Industrial IoT Gateway adds connectivity to any Modbus RTU/ASCII device and integrates them into the Internet of Things. Link a single Modbus Master or up to 31 Modbus Slave devices to an MQTT Broker (Server) for any IIoT application such as online dashboards, remote data logging, or mobile apps.

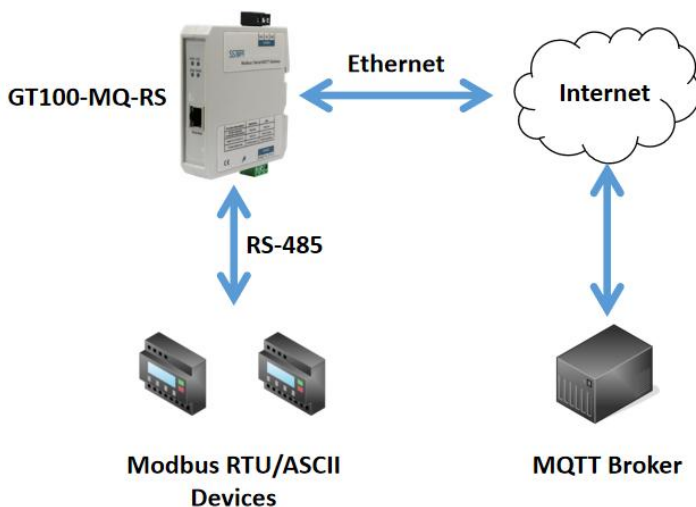
Features and Benefits

- Integrate your industrial equipment into the cloud
- Connects up to 31 Modbus RTU/ASCII Slaves or a single Modbus RTU/ASCII Master
- Ethernet port configurable as a LAN/WAN port for a wired connection to MQTT
- Support for MQTT version 3.1.1
- Online security using TLS V1.2 encryption
- Customizable JSON data format
- Troubleshooting made easy with built-in Modbus and MQTT debug tools
- Built-in timestamp function for simplified timekeeping and device logging
- Supports up to 1000 data point tags
- Built-in watchdog timer with automatic reset
- 3 Year Hardware Warranty



Typical Use Case

GT100-MQ-RS gateway can connect Modbus RTU/ASCII serial devices to MQTT broker. GT100-MQ-RS gateway is a bridge in the communication network and implements the conversation between Modbus and MQTT.



- MQTT servers: Microsoft Azure, Amazon AWS, and Customized Servers
- Modbus serial devices: Sensors, Instruments, PLCs

Technical Specifications

Modbus Features	
Operation Mode	Modbus RTU Master, Modbus RTU Server, Modbus ASCII Master, & Modbus ASCII Server
Serial Standard	RS-485
Baudrate	1200 bps to 115.2 kbps
Maximum Modbus RTU/ASCII Slave Devices	31
Maximum Modbus RTU/ASCII Master 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

