

Introduction

Our Industrial IoT gateway has the capabilities to connect various PLCs (Siemens, Schneider, etc.), fieldbus instruments and BACnet IP system to the cloud servers over WAN by MQTT protocol, such As Microsoft Azure, Amazon AWS, and customized Servers.

Features and Benefits

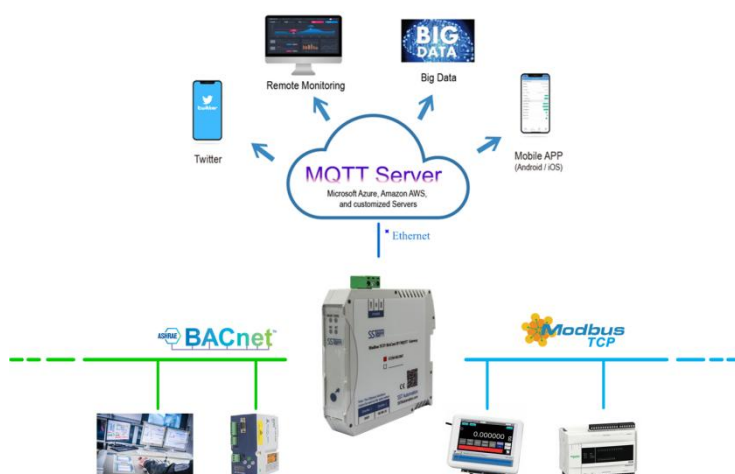
- Realizes data exchange among Modbus TCP clients/servers, BACnet IP client and MQTT.
- Two Ethernet RJ45 interfaces.
- Supports at most 36 Modbus TCP clients/servers.
- Supports at most 3000 data point tags.
- Easy to use configuration software SST-BMQ-CFG.



Interfaces

Black Terminal	Power Supply	24V DC
Ethernet RJ45*2	Modbus TCP/BACnet IP/MQTT Interface	10/100M
Configuration Button	Configure Status of GT200-MQ-BMT	Configuration Data Protection Restore to factory
Indicators	MQ/N1, BI/N2, MS, MT	Green, Red, Orange

Typical Use Case



GT200-MQ-BMT gateway can connect Modbus TCP server devices, BACnet IP systems to MQTT server over WAN. It is a bridge in the communication network and implements the conversation among Modbus TCP, BACnet IP and MQTT.

- BACnet IP Client: Johnson Controls, KEServerEX, SCADA
- Modbus TCP Clients/Servers: PLCs, SCADA
- MQTT servers: Microsoft Azure, Amazon AWS, and Customized Servers

Technical Specifications

Modbus TCP Features	
Operation Mode	Modbus TCP Master, Modbus TCP Server
Maximum Input and Output Bytes	2048
Maximum Modbus TCP Server Devices	36
Maximum Modbus TCP Client Devices	36
Maximum Number of Commands	128 (As Modbus Master)
BACnet IP Features	
Operation Mode	BACnet IP Server
Services Supported	Who Is, I Am, Who Has, I Have, Read Property, Write Property, Read Property Multiple
Maximum Objects Supported	500 AI, 300 AO, 300 AV 500 BI, 300 BO, 300 BV 500 MSI, 100 MSO, 100 MSV
MQTT Features	
Operation Mode	Generic MQTT
Max Broker Connections	1
Max Data Points	3000 data point tags mapped to IoT
Security	TLS V1.2
Supported Data Formats	JSON
Electrical / Environmental	
DC Input Voltage	24 VDC (9 to 30 VDC)
Operating Temperature	-40°F to 158°F (-40°C to 70°C); Humidity 5% to 95%
Certification	CE Compliant
Physical	
Dimensions (W x H x D)	0.9 x 3.9 x 4.5 in 22.5 x 99 x 114.5 mm
Mounting	DIN Rail
Ethernet Port	(1) 10/100 Base-T, RJ45 Connector
Power Interface	(1) 3-Pin Terminal Block

Dimensions

