



ADC - Stride MQTT Gateway

## IIoT Solution



### Web Browser - Smart Phone

Monitor Each Site

Status Page - Tag Name, PV, SP, Eng Units  
Bar Graphs, Indicators, Meters Page  
Remote On/Off, Open/Close, Change Setpoints  
Datalogging & Historical Trend Page  
Alarming & Notification Page  
Report Page

### Cloud

Amazon Web Service

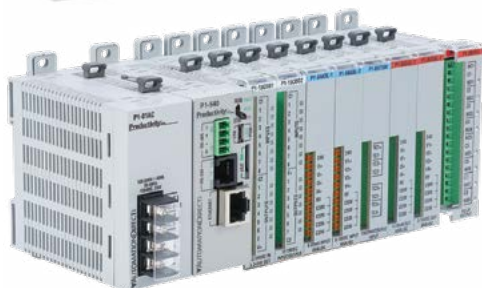
Portal / Dashboards

Secure Gateway for Remote Control

Cassandra Database

MQTT Broker

Connect to Publisher via LAN or Wifi



### MQTT Publish & Subscribe - Edge Controller

Stride Gateway - SGW-MQ1611  
Configure via Web Interface

Connect to PLCs via Modbus/TCP

All PLCs that communicate via  
**Modbus/TCP**

Discrete or Analog Inputs  
Discrete or Analog Outputs

Analyzers via Modbus/RTU

# Stride<sup>®</sup>MQTT Gateway



## Features

- Convert Modbus RTU/TCP to MQTT
- IIoT MQTT protocol with SSL/TLS
- Configurable via web page
- Hardware watchdog function
- Full electrical isolation
- Add this to your MQTT cloud, compatible with AWS, Mosquitto and more
- Wired or Wi-Fi models available



Stride MQTT Gateway Models				
Part Number	Ethernet	RS-485	WiFi	Price
SGW-MQ1611	✓	✓		\$215.00
SGW-MQ1611-WF	✓	✓	✓	\$230.00

Ethernet Specifications	
Connector	RJ-45
Ethernet Port Speed	10/100Mbps auto-detected
Protocol	MQTT, Modbus TCP
Simultaneous Ethernet Connections	8

WiFi Specifications (Model SGW-MQ1611-WF Only)	
WiFi Standards	802.11 a/b/g/n/ac
Frequency Bands	2400/5500 MHz
Antenna	Internal

RS-485 Specifications	
Connector	Removable screw terminals, 5.08 mm pitch
Baud rate	Up to 115.2 kbps
Parity	Even, odd or none
Stop bit	1 or 2
Number of Serial Devices	32 max.
Switching Time TX/RX (RS-485)	150µs
Termination Resistance	120Ω

Network Ports	
Web User Interface	80
Modbus	502 (default, software configurable)
MQTT	Software configurable, determined by MQTT Broker



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Electrical Specifications	
<b>Power Supply Connector</b>	Removable screw terminals, 5.08 mm pitch
<b>Input Voltage Range</b>	10–30 VDC
<b>Current Consumption</b>	max 300mA @ 24VDC
<b>Isolation</b>	
<b>Power Supply / RS-485</b>	1500VAC, 50Hz, 1 min.
<b>Ethernet / RS-485</b>	1000VAC, 50Hz, 1 min.
<b>Ethernet / Power Supply</b>	1500VAC, 50Hz, 1 min.
<b>Reverse Polarity Protection</b>	Yes

Environmental Specifications	
<b>Operating Temperature</b>	0°C to +60°C [32°F to 140°F]
<b>Storage Temperature</b>	-20°C to +70°C [-4°F to +158°F]
<b>Humidity</b>	0–90%, noncondensing
<b>Maximum Altitude</b>	2000m
<b>IP Rating</b>	IP20
<b>Installation</b>	Indoor
<b>Category of Installation</b>	II
<b>Pollution Degree</b>	2
<b>EMC</b>	
<b>Immunity</b>	EN61000-6-2
<b>Emission</b>	EN61000-6-4
<b>Agency Approvals</b>	CE, FCC, RoHS

Mechanical Specifications	
<b>Material</b>	Self-extinguishing plastic
<b>Mounting</b>	35mm DIN rail (EN50022 and EN50035)
<b>Weight</b>	Approximately 200g



**NOTE: INSTALLATION OF THE WI-FI MODEL IN A METAL CABINET IS NOT RECOMMENDED, AS THE CABINET MAY BLOCK THE WI-FI SIGNAL.**

## Dimensions

mm [inches]

