

# SRG-M041 PRELIMINARY

Gateway System with ARM Cortex M4F 180MHz

Front View



Rear View



## Features

- Supports LTE CAT 1/LTE M1/NB-IoT network technology (by model)
- Supports Bluetooth 5.0 / Wi-SUN network technology (by model)
- Supports Dual-SIM for cellular connection redundancy
- Supports Dual power inputs for power redundancy
- Supports Serial ports x 2 for RS-232 / 3W-RS-485
- Supports CANbus x 1 for CAN 2.0B (one serial port change to CANbus/by model)
- CAN transfer rate up to 1 Mbps
- Build-in 10/100 Mbps, Auto MDI/MDIX Mbps Ethernet ports x 2
- Serial Protocols - Support Modbus RTU/ASCII
- Network Protocols - Support MQTT / MQTTs/Modbus TCP transfer protocol
- Supports Data Log
- Configuration via USB virtual console port or web page via ethernet
- Supports Firmware-Over-the-Air (FOTA)
- Wide operating temp range -20°C to +70°C

## Specifications

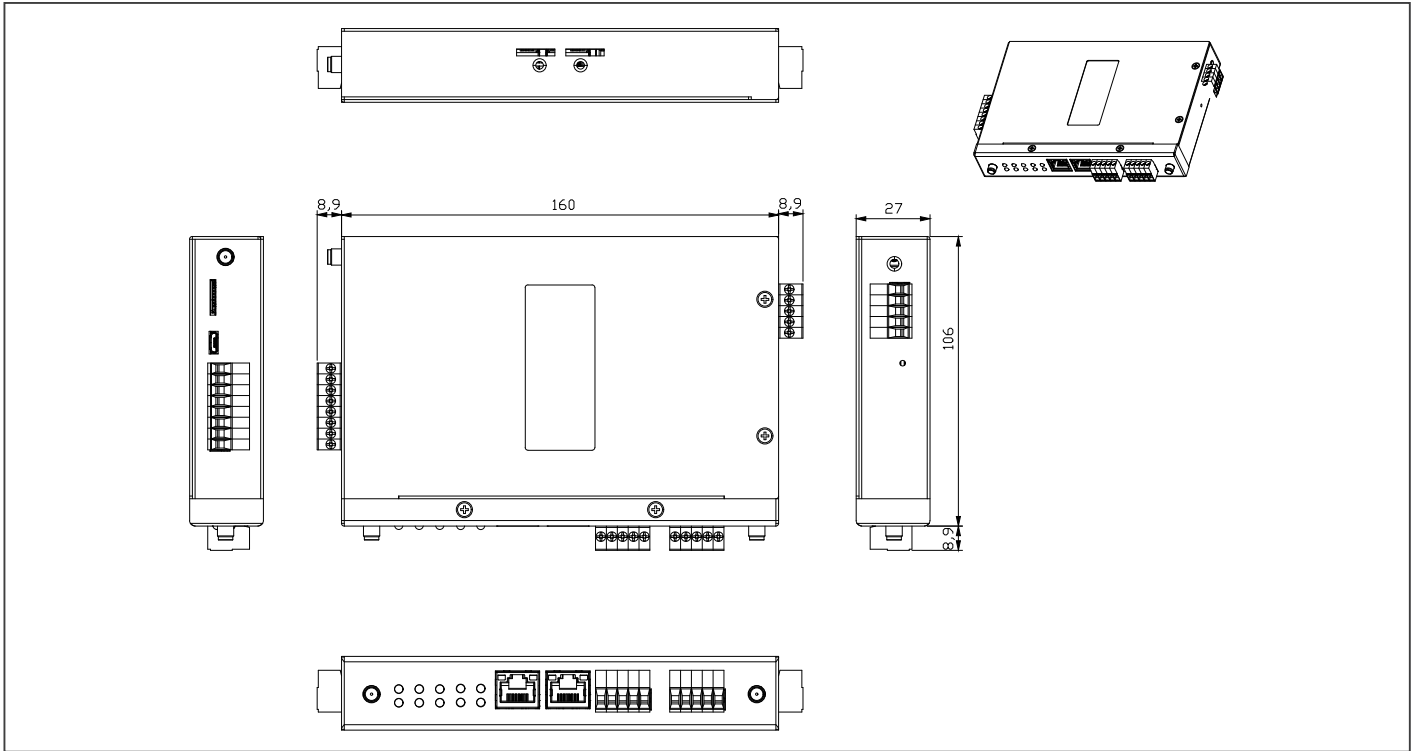
<b>System</b>	
Processor	ARM Cortex M4F 180MHz
Memory	2 MB
Storage	256Kbytes SRAM
Real Time Clock	—
Security	memory protection unit (MPU)
Indicators	10 LED indicator for Power/Serial port/DI/RF activity/Wireless strength.
Cellular	Mini PCIe Connector x 1
Wireless Lan	—
Operating System	Non-OS
Support Protocol	Modbus RTU to MQTT
<b>I/O Interfaces</b>	
Serial Port	RS-232/485 x 2
Ethernet	10/100 Ethernet x 2, RJ-45
USB	—
ADC	—
DI/DO	DI x 4 Relay output x 2
CAN Bus	1 Channel
Display	—
Power Connector	Terminal Block Type
Debug Port	Micro USB x 1
Expansion Slot	SIM card slot x 2 Micro SD slot x 1
Other Interface	—
<b>Power Supply</b>	
Power Requirement	12/24 VDC
Power Consumption	3W
MTBF (Hours)	—
<b>Environmental and Mechanical</b>	
Dimension	6.3" x 4.18" x 1.07" (160 x 106 x 27 mm)
Weight	670 g
Mount Options	Din Rail
Operation Temperature	-4 °F ~ 158 °F (-20 °C ~ 70 °C)
Storage Temperature	-40 °F ~ 176 °F (-40 °C ~ 85 °C)
Operation Humidity	5% ~ 95% relative humidity, non-condensing

## Packing List

- SRG-M041

## Dimension

Unit: mm



## Ordering Information

Part Number	CPU	Memory	Thermal	Ports	Storage	LAN	USB	Expansion slot	Power	Operation Temp.	Others
SRG-M041-A10-0001	ARM Cortex M4F	2 MB	-	"DI x 4 Relay output x 2"	"256Kbytes SRAM, MicroSD x1"	10/100 Ethernet x 2, RJ-45	-	Mini PCIe slot x 1, SIM card socket x 2	DC 12/24V	-20°C ~ 70°C	3G/LTE/Cat-M1/ Cat-NB module (optional)

## Optional RF Module

Type	Model Series
3G/4G/LTE	Quectel EG25-G
NB-IoT	Quectel BG96
CAT-M1	Quectel BG96
CAT 1	—
LoRaWAN	—
Zigbee	—

## Optional Accessories

- **1255300366**  
Power Adapter. AC/DC. 100-240VAC. 12VDC/3A.36W.
- **9741EG25G0**  
PCIe mimi card. 4G LTE. module kit. Global Band W/  
SIM holder. W/Cable & antenna. Quectel. EG25-G

## Optional Software Accessories

- **TBD**  
OPC UA Stack
- **TBD**  
EtherCAT Stack
- **TBD**  
PROFIBUS Stack
- **TBD**  
MQTT
- **TBD**  
PROFINET Stack
- **TBD**  
EtherNet/IP Stack
- **TBD**  
IO-Link Stack
- **TBD**  
Modbus