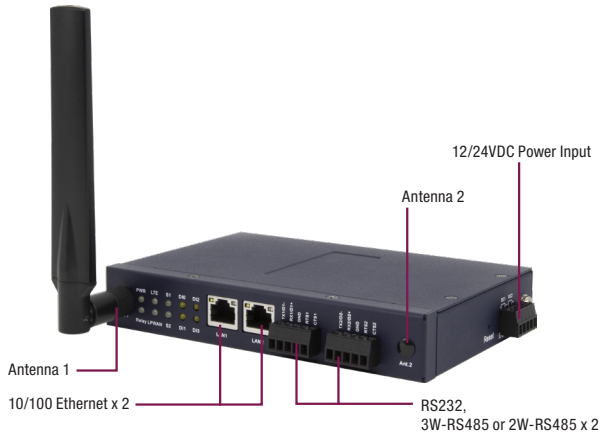


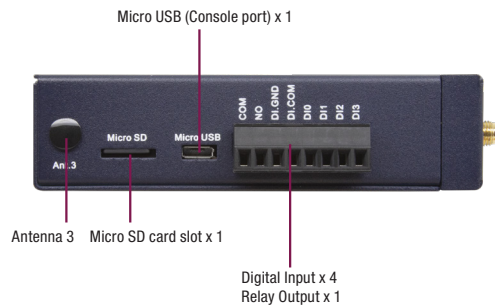
# SPG-M041

Gateway System with ARM Cortex M4F 180MHz

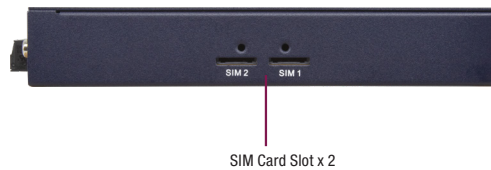
Front View



Right Side View



Rear View



## Features

- Dual wireless connectivity (LTE 4G as default)
- Wireless: CAT-NB/M1, Wi-SUN upon request
- GPS support (via 4G LTE or CAT-NB/M1 module)
- Dual 10/100 Mbps Ethernet ports
- Multiple I/O interface connections for data collection
- Embedded Real-Time OS support
- Data logger with time stamp
- Firmware over the air (FOTA) support
- Wide operating temperature range -20°C to 70°C



## Specifications

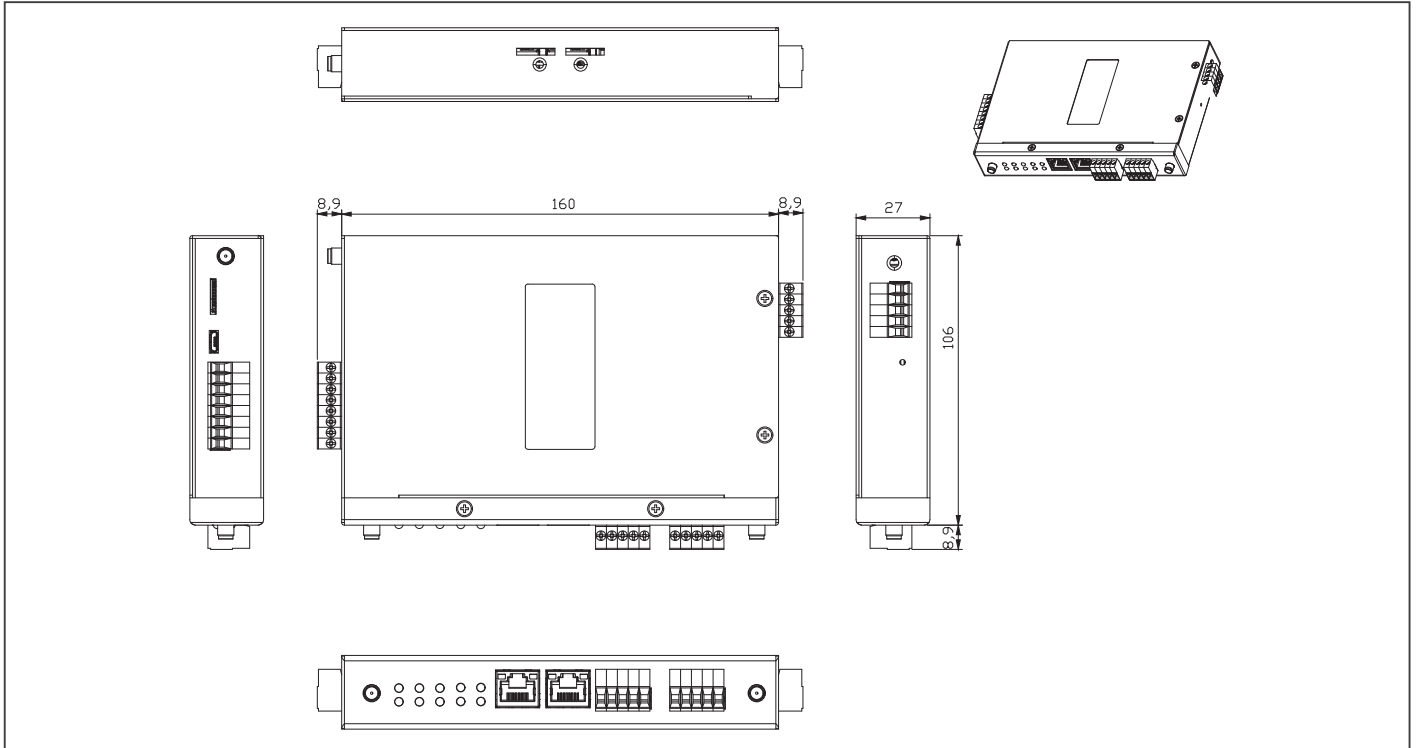
System	
CPU/MCU	ARM Cortex M4F
External flash	128 M-bit flash
Storage	External Micro SD slot, Max. 32GB
Operating system	Embedded real-time OS: Zephyr Version: 3.0.99
LED indicator(s)	10
Real time clock	Yes
I/O Interfaces	
Ethernet	10/100Mbps Ethernet x 2, RJ45
Serial Port	RS232, 3W-RS485 or 2W-RS485 x 2, Terminal Block (Software selectable)
Digital Input	4, Terminal Block
Relay Output	1, Terminal Block
SD card	Micro SD card slot x 1
Power Input	12/24 VDC Power input x 2, Terminal Block
Power Supply	
Ports/Channels	Dual DC power inputs for power redundancy
Power supply rated voltage	12 / 24 VDC
Power supply voltage range	9.6 ~ 31.2 VDC
Input current	12V/2.29W, 24V/3.14W, Normal used
Reverse polarity protection	Yes
Voltage variation protection	Yes
Mechanical	
Enclosure	Metal housing
Dimension	6.29 x 4.17 x 1.06 (160 x 106 x 27mm)
Weight	1.11 lb (504g)
Mounting/Installation	DIN mount
Environmental	
Operating Temperature	-20 to 70°C (-4 to 158°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Humidity	5% to 95% Non-condensing
Certification	
Regulations	CE, FCC

## Packing List

- SPG-M041

## Dimension

Unit: mm



## Ordering Information

Part Number	Platform	LAN	COM	Digital Input	Digital Output	Expansion slot	Power	Others
SPG-M041-A10-0000	ARM Cortex M4	10/100 Ethernet x 2	RS-485 / RS-232 x 2 (Selectable)	DI x 4	Relay x 1	Mini PCIe slot x 1	12/24 VDC	Embedded Real-Time OS: Zephyr

## Optional Accessories

Part Number	Description
1255X00072	Power Adapter. AC/DC. 100-240VAC. 12VDC/3A.36W.
9741EG25G0	PCIe mimi card. 4G LTE. module kit. Global Band W/SIM holder. Quectel. EG25-G
9697PT0003-D	PCIe mimi card. CAT-NB/CAT-M1. EXS62
170X000099	Antenna, LTE / CAT-NB and M1, Full Band
978966660G	Antenna. GPS