



Product Feature:

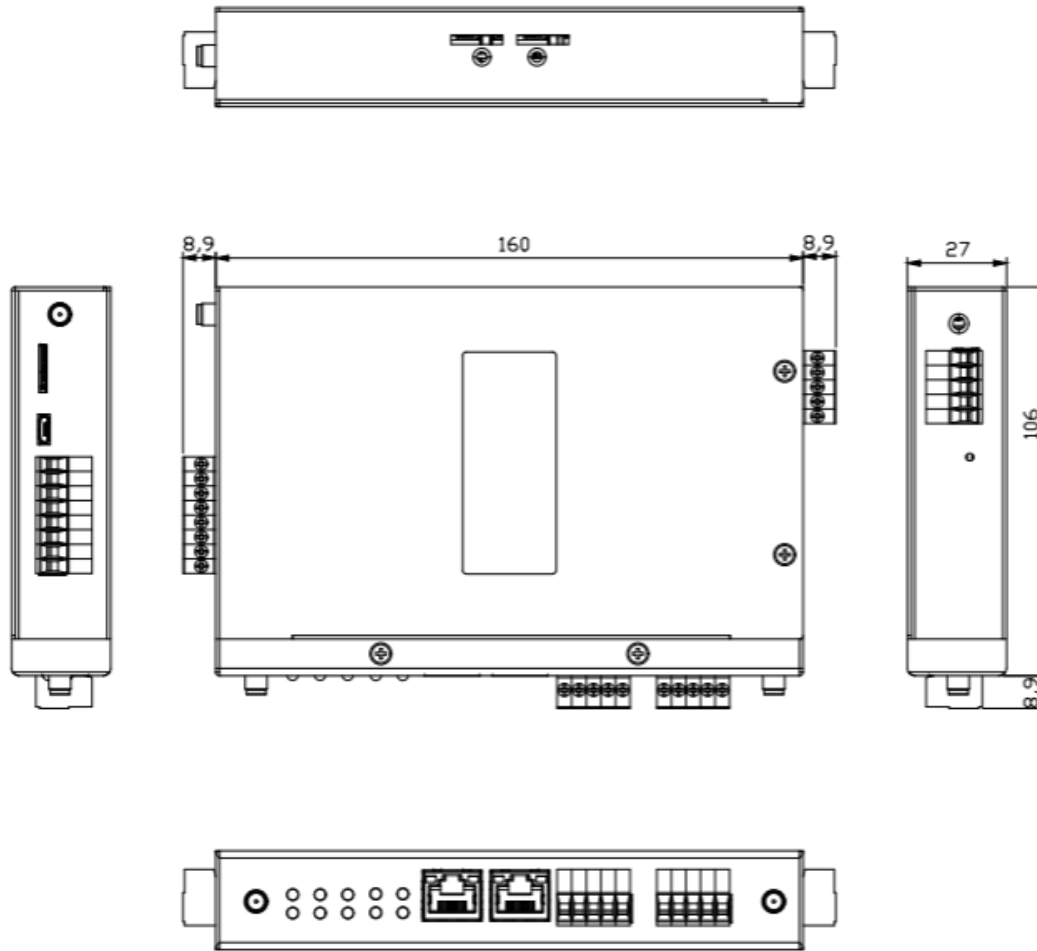
- Powered by ARM Cortex M4
- Dual wireless connectivity (LTE 4G as default)
- Wireless: CAT-NB/M1, Wi-SUN upon request
- GPS support (via 4G LTE or CAT-NB/M1 module)
- Dual 10/100 Mbps Ethernet ports
- Multiple I/O interface connections for data collection
- Embedded Real-Time OS support
- Data logger with time stamp
- Wide Temperature -20 °C ~ 70 °C

Specifications

System		Interface	
CPU/MCU	ARM Cortex M4F	Serial Port	2 x RS232/RS485(2W,3W), Terminal Block
Memory	On Board 128 M-bit Flash	Ethernet	2 x 10/100Mbps, with auto MDI/MDI-X
Storage	External Micro SD slot, Max. 32GB	USB	--
Real time clock	1 x RTC, with 3V CR2032 lithium battery	ADC	--
Indicators	10 x LED indicator	DI/DO	4 x DI Channels, Wet/Dry Contact, Terminal Block 1 x Relay channel
Security	--	AI/AO	--
Cellular	1 x Mini PCIe Connector (UART Signal)	CAN Bus	--
Wireless LAN		Display	--
Operating System	Embedded real-time OS: Zephyr Version: 3.0.99	Power Connector	1 x 5pin Terminal Block
Support Protocol	Modbus RTU to MQTT	Debug Port	1 x Micro USB for console
Power Supply		Expansion Slot	2 x SIM card slot 1 x Micro SD slot
Power Requirement	12/24 VDC	Other Interface	3 x SMA for RF Module
Power Consumption	12V/2.29W, 24V/3.14W, Normal used		
MTBF (Hours)	--		
Environmental and Mechanical			
Dimension	160 x 106 x 27 mm		
Weight	670g		
Mouting/Installation	Din Rail		
Operating Temperature	-4 °F ~ 158 °F (-20 °C ~ 70 °C)		
Storage Temperature	-40 °F ~ 176 °F (-40 °C ~ 80 °C)		
Operating Humidity	5% ~ 95% relative umidity, non-condensing		
Certification			
Regulations	CE, FCC		
Carrier	Planning		

Dimension

Unit: mm / inch



Ordering Information

Part Number	Packing List
2SPG-M041-xx Protocol Gateway, ARM Cortex M4, ARM Cortex M4, 12/24VDC	4 x Terminal Block 1 x DIN Mounting Kits

Optional Accessories

Part Number / Item			
4G LTE	PCI-e mini card. 4G LTE Module	Adapter	Power Adapter. AC/DC. 100-240VAC. 12VDC/3A 36W
CAT-NB/CAT-M1	PCI-e mini card. CAT-NB/CAT-M1 Module		
Antenna	Antenna GPS		
Wi-Fi	PCI-e card. Wi-Fi Module		