

Data Sheet

SMG-5521 | RS422/485 Modbus Gateway to Sollae Cloud



Overview

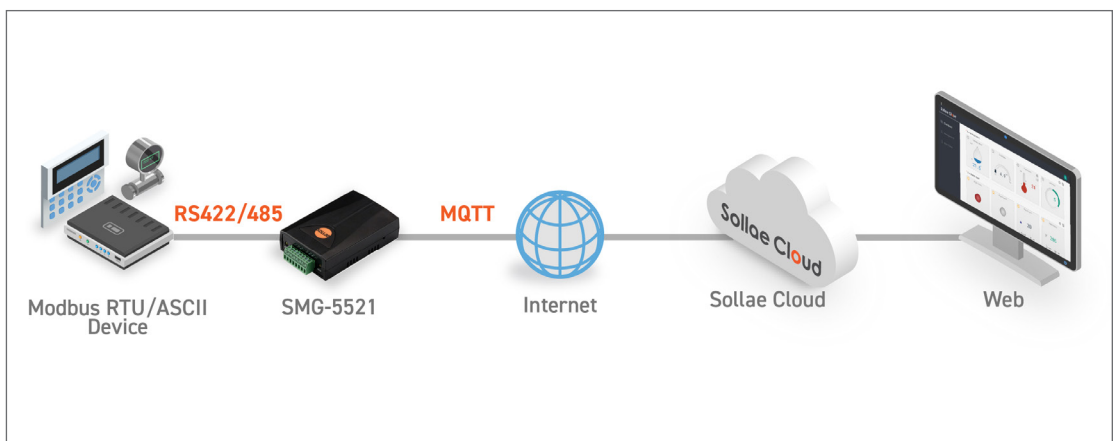
With one side featuring an RS422/RS485 interface and the other side featuring an Ethernet interface, the SMG-5521 serves as an industrial Modbus Gateway, connecting your Modbus RTU/ASCII devices/sensors to the Sollae Cloud. Through the Sollae Cloud's web interface, you gain the ability to retrieve data from and control your Modbus RTU/ASCII devices/sensors. Moreover, you can take advantage of the Sollae Cloud's advanced features such as event-action triggers, email notifications, graphical representations, and customizable dashboards.

The SMG-5521 provides a 10/100Mbps Ethernet interface and an RS422/RS485 serial port.

Features

- 10Base-T/100Base-TX Ethernet
- RS422/RS485 serial port
- Supports Modbus RTU/ASCII
- MQTT over TLS
- Support multiple access via Cloud
- Free to use Sollae Cloud
- Industrial temperature range (-40°C ~ +85°C)
- Customizable web User Interface for monitoring and controlling with Sollae Studio
- Data is stored on Sollae Cloud for up to 30 days
- Various widgets on Sollae Cloud for data visualization
- Inter-device Event-Action
- Email Notification

System Diagram



Specifications

Serial Physical Interface	
Serial Interface	RS422/RS485 - TX+, TX-, RX+, RX-, GND with embedded 3.9K biasing resistors and TVS TRX+, TRX-, GND with embedded 3.9K biasing resistors and TVS
Connector	3.5mm Pitch Terminal Block
Serial Port Properties	
Baudrate	1,200bps ~ 230,400bps
Data Bits	8 bits, 7 bits with Parity
Parity	None, Even, Odd, Mark, Space
Stop Bit	1, 2
Network Physical Interface	
Network Interface	10Base-T/100Base-TX Ethernet (RJ45)
	Ethernet Speed Auto Sense
	1:1 or Cross-over Cable Auto Sense
Software Functions	
Protocols	IPv4/IPv6 Dual Stack
	TCP/UDP
	ICMP, DHCP, mDNS, Modbus/TCP
	Modbus/RTU, Modbus/ASCII
	SSL/TLS
Indicators (LEDs)	
PWR	Red
RUN	Yellow
LINK	Green
MRX	Green
MTX	Green
STX	Green
SRX	Green
Management	
spFinder	Configuration and Monitoring Tool through Network
Dimension	
Size	94mm x 57mm x 24mm
Operating Environments	
Input Voltage	DC 5±0.5V
Protection	Reverse Voltage Protection / Surge Protection
Current Consumption	Typically, 273mA
Operating Temperature	-40°C ~ +85°C
Storage Temperature	-40°C ~ +85°C
Certificate	
KC	Registration (KN 32, KN 35)
CE	EMC 2014/30/EU, RoHS 2011/65/EU
FCC	FCC Part 15 Subpart B, Class A