

Data Sheet

SMG-5420 | RS422/485 Modbus Gateway



Overview

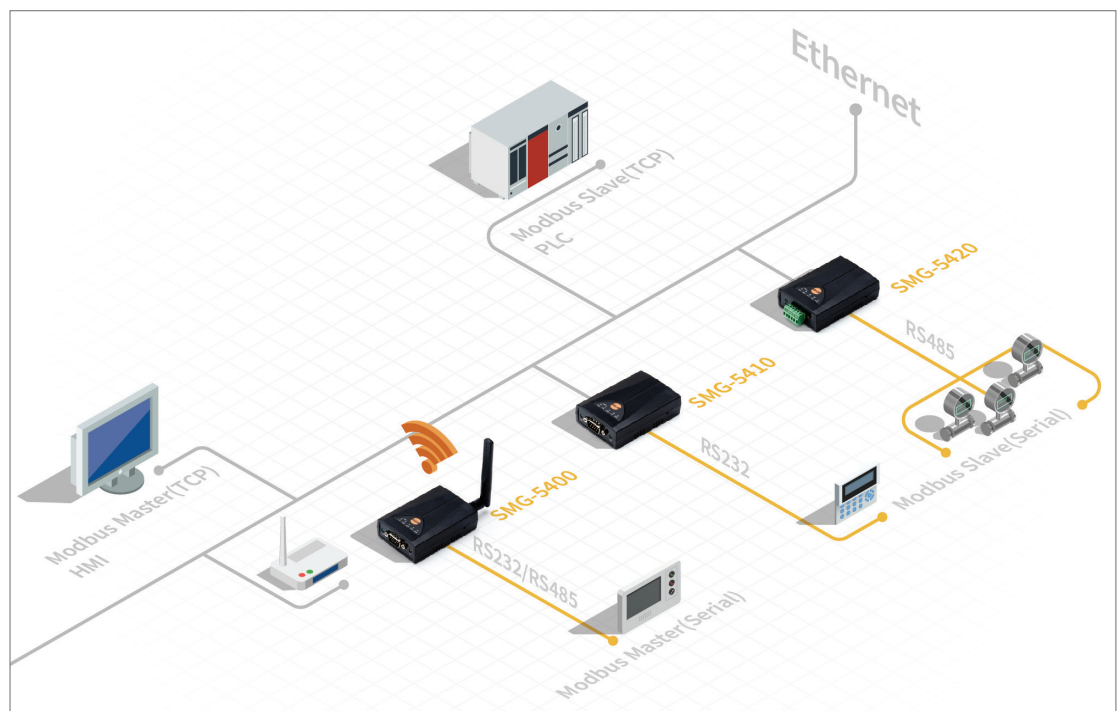
SMG-5420 is an industrial Modbus Gateway that converts and routes Modbus data between the serial line and Modbus/TCP. This can help communicate between Modbus master (or slave) of serial line and Modbus slave (or master) of network.

SMG-5420 provides 10/100Mbps Ethernet and RS422/RS485 serial port.

Features

- RS422/485 Modbus Gateway
- 10Base-T/100Base-TX Ethernet
- RS422/485 serial port
- Self-developed TCP/IP stack
- Industrial temperature range (-40°C ~ +85°C)

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, Modbus/TCP, mDNS
	Modbus/RTU, Modbus/ASCII
Security	Password
Indicators (LEDs)	
PWR	Red
RUN	Yellow
LINK	Green
MTX	Green
MRX	Green
SRX	Green
STX	Green
Management	
spFinder	Configuration and Monitoring Tool through Network
Dimension	
Size	94mm x 57mm x 24mm
Operating Environments	
Input Voltage	DC 5±0.5V
Current Consumption	Reverse Voltage Protection / Surge Protection
Operating Temperature	-40°C ~ +80°C
Storage Temperature	-40°C ~ +85°C
Certificate	
KC	Registration (KN 22, KN 35)
CE	EMC 2014/30/EU, RoHS 2011/65/EU
FCC	FCC Part 15 Subpart B, Class A