MaxLong M
TechnologyCo., Ltd

Provide customized hardware and software services
The Best choice for IoT city

> SDK platform provides User development bonus
> Com Port is convenient to use
  (RS232 uses DB9 standard interface, RS485 uses TB interface)
> Built-in Micro SD card Storage can record and store data
> The same platform product portfolio is flexible
  (3G/4G/Modbus/GPS/TCP TO RTU/VPN)
> Remote software update software through the network
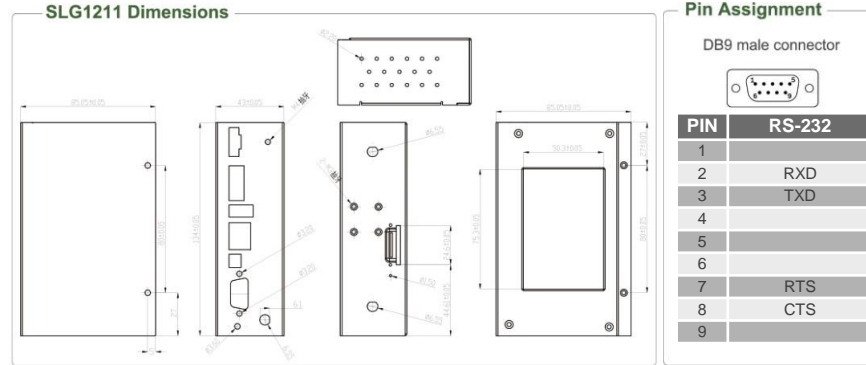> Special treatment can be dustproof and waterproof

- Industrial grade hardware design for harsh environment
- Support Message Queue technology(MQTT), connected with cloud and mobile devices
- Designed for machine to machine communication taking advantage 3G/4G and WAN port for internet access
- Provide a variety of serial interfaces and GPIO feature
- Controller support wide voltage input
- When power failure, the Li-ion battery can ensure controller alive
- Built SD port to sure the data save when wireless is disconnect

SLG1211 Dimensions

Pin Assignment
DB9 male connector

PIN	RS-232
1	
2	RXD
3	TXD
4	
5	
6	
7	RTS
8	CTS
9	

Ordering Information

Model	Description
SG1211A	Gateway
SG1211A-4G	4G Gateway
SG1211A-4G-Modbus	4G Gateway Modbus RTU to TCP

Options of Bands/Frequencies (MHz)

| Option | 4G | |
	FDD LTE	TDD LTE
E	B1(2100),B3(1800), B5(850),B7(2600), B8(900),B20(800)	B38(2600), B40(2300), B41(2500)
A	B2(1900),B4(1700), B12(700)	
AU	B1(2100),B2(1900), B3(1800),B4(1700), B5(850),B7(2600), B8(900),B28(700)	B40(2300)
J	B1(2100),B3(1800), B8(900),B18(850), B19(850),B26(850)	B41(2500)

SKY 4G LTE Gateway SG1211A Specifications

Main Chip
LoRa Transmission : Semtech SX1272
Soc : 1 GHz Sitara ARM Cortex®-A8
Memory: -DDR3 512M Bytes
        -NAND Flash 256M Bytes
Operating System: GNU Linux

LoRa
Frequency: 862~932MHz
Frequency Accuracy: ± 10KHz
Modulation: LoRa
Transmit Power: 2~+20dBm
Data Rate: 0.244~18.2Kbps(LoRa)
High Sensitivity: down to -137dBm
Communication Distance: 2Km
Antenna Impedance: 50ohm

USB Port
1 Port USB Host

Serial Port
RS232/RS485:
-1 port RS232 with DB9
(Full Duplex of RS232 /Baud Rate up to 115K bps)
-1 port RS485 with TB5
(Half Duplex of RS485/Baud Rate to 115K bps)

Network
Ethernet: 1*10/100/1000 Base-TX LAN port
Protocal: TCP, UDP, HTTP, SNTP, DHCP, FTP, PPP, IPv4

DI/DO
125 Vac @0.5A, 24 Vdc @1A
Output: 1*Relay Dry Contacts, Terminal Block
Input: 1*Dry Contacts, Terminal Block

Configurations and Management
WEB: Support HTML web control interface
CGI: Support CGI control interface
Firmware: Lan port Support system firmware upgrade

Power Source
Supply Voltage: +9~48 VDC, Terminal Block
Power Consumption@12V: Max 12W

Environment
Operating Temperature: -10℃~70℃

Mechanism
Dimensions: W*H*D: 43*135*96 (mm)
Weight: 450 ± 5g

Option
3G: -HSPA data rate (Mbps)=3.6(DL)
      -UMTS data rate (Kbps)=384(DL)/384(UL)
      -LTE-FDD Max 10M (DL)/ Max 5M (UL)
4G: -HSPA data rate (Mbps)=14.4(DL)/5.76(UL)
      -UMTS data rate (Kbps)=384(DL)/384(UL
      -LTD-FDD Max 150Mbps (DL) Max 50Mbps (UL)
      -LTE-TDD Max 130Mbps (DL) Max35Mbps (UL)
Battery Supply: Li-ion 1400mAh