

SG1211A



- > 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



SKY LoRa Gateway SG1211A Specifications

Main Chip

Soc : 1 GHz Sitara ARM Cortex®-A8

Memory: -DDR3 512M Bytes

-NAND Flash 256M Bytes

Operating System: GNU Linux

USB Port

1 Port USB 2.0 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

Giga Ethernet: 1*10/100/1000 Base-TX RJ45

Protocol: TCP, UDP, HTTP, SNTP, DHCP, FTP, PPP, IPv4

Storage

Support 32G Micro SD

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: Support system firmware upgrade

Power Source

Supply Voltage: +9~48 VDC, Terminal Block

Power Consumption@12V: Max 12W

Environment

Operating Temperature: -10°C~70°C

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)

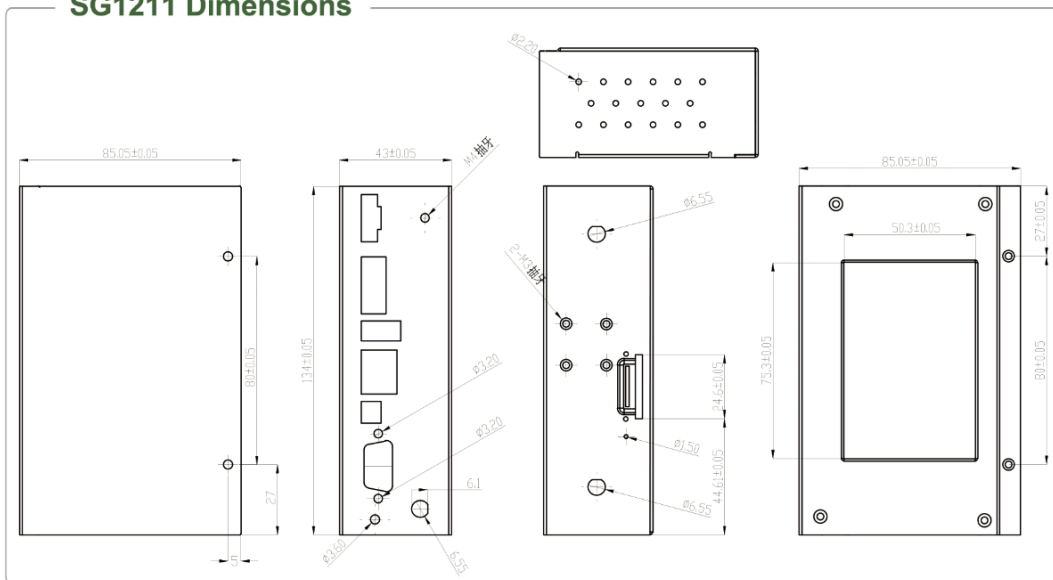
-UMTS data rate (Kbps)=384(DL)/384(UL)

-LTD-FDD Max 150Mbps (DL) Max 50Mbps (UL)

-LTE-TDD Max 130Mbps (DL) Max35Mbps (UL)

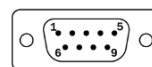
Battery Supply: Li-ion 1400mAh

SG1211 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)