

- > 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

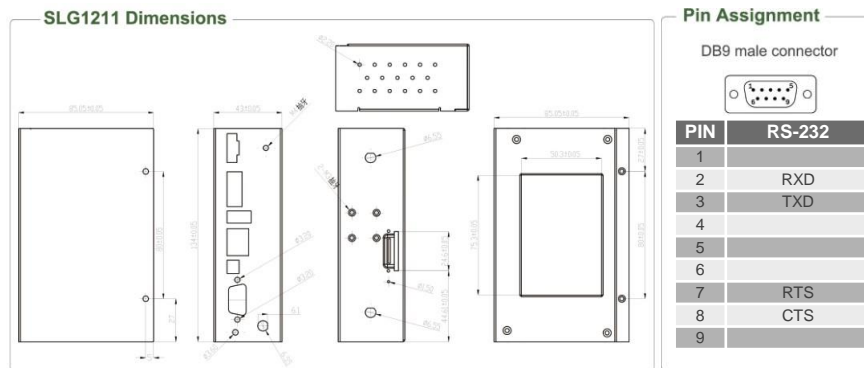
- Industrial grade hardware design for harsh environment
- Support Message Queue technology(MQTT), connected with cloud and mobile devices
- Designed for machine to machine communication taking advantage 3G/4G and WAN port for internet access
- Provide a variety of serial interfaces and GPIO feature
- 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 4G VPN 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:** 2Kkm  
**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  
**Protocol:** 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°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



## 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)