

RHF2S209 LoRaWAN® 8channel outdoor gateway

DESCRIPTION

RHF2S209 is a new generation LoRaWAN® gateway developed by RisingHF. The GW integrates 650MHz ARM Cortex-A53 CPU which run Linux OS. Semtech LoRaWAN® gateway chip SX1302 is imported into the gateway. SX1302 is a new generation chip with high performance excels in reducing current consumption and handling a higher amount of LoRa traffic.

The gateway uses 10/100M Ethernet or LTE (also 4G/3G/2G) as backhaul. An on-board GPS module could be used to generate a PPS signal for time synchronization. An internal web UI is used for quick configuration and maintenance, this web UI can be accessed via WIFI AP interface.

RHF2S209 is IP67 design for outdoor usage, can support LoRaWAN class A/B/C application. Gateway is powered by an accompanied AC-DC adapter, a backup rechargeable LiFePO4 battery is optional when order.



APPLICATIONS

- Smart security
- Industrial control
- Data collection from sensor node
- Automatic meter reading
- Environment monitoring
- Building automation

FEATURES

- Maximum output power : 26dBm
- High sensitivity : -138dBm@300bps
- Half duplex
- LoRaWAN uplink optional :
 - Standard 8 channels: 8 normal multi-SF channels (SF7 to SF12,125kHz), 1 single SF high speed data rate channel and 1 GFSK channel
- LoRaWAN downlink:
 - 1 normal channel(125kHz/250kHz/500kHz LoRa configurable or GFSK)
- LoRaWAN Antenna Gain : 2dBi
- 10/100M Ethernet or LTE (also 4G/3G/2G) as backhaul
- Precise time synchronization with GPS PPS signal
- Quick configuration and maintenance through Wi-Fi
- Power supply : DC jack or optional backup I LiFePO4 battery
- Up to 5hr duration time with backup battery
- Operating temperature: -40°C to +85°C
- Waterproof level: IP67
- 10kA surge protection

ORDERING INFORMATION

No Battery :

order	model	Band@Uplink	Band@Downlink	Specifications
1	RHF2S209EH8-470	470MHz~490MHz	470MHz~510MHz	8channel/Half duplex, band 470MHz
2	RHF2S209EH8-868	859MHz~871MHz	859MHz~871MHz	8channel/Half duplex, band 868MHz
3	RHF2S209EH8-915	900MHz~930MHz	900MHz~930MHz	8channel/Half duplex, band 915MHz
4	RHF2S209EH8-923	900MHz~930MHz	900MHz~930MHz	8channel/Half duplex, band 923MHz, Equipped with European version 4G module

with backup Battery Inside :

order	model	Band@Uplink	Band@Downlink	Specifications
1	RHF2S209BH8-470	470MHz~490MHz	470MHz~510MHz	8channel/Half duplex, band 470MHz, with Battery
2	RHF2S209BH8-868	859MHz~871MHz	859MHz~871MHz	8channel/Half duplex, band 868MHz, with Battery
3	RHF2S209BH8-915	900MHz~930MHz	900MHz~930MHz	8channel/Half duplex, band 915MHz, with Battery
4	RHF2S209BH8-923	900MHz~930MHz	900MHz~930MHz	8channel/Half duplex, band 923MHz, with Battery, Equipped with European version 4G module

CONTACT

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