

8 Channels LoRaWAN Gateway

DESCRIPTION

RisingHF 8 Channels LoRaWAN gateway RHF2S008P4G is a very intelligent and smart gateway based on LoRaWAN protocol, which is embedded with Semtech's high performance multi-channel transceiver SX1301 and ARM Cortex-A53 platform @1.2GHz.

The Gateway could connect to LoRaWAN Cloud server via Ethernet network or 4G/3G/2G. PoE will be used for power supply which simplifies the connection of the cable. Integrated GPS module would provide high accurate pps signal for synchronization.

All the hardware would be placed in a small metallic enclosure with IP66 protection level. Kinds of way to fix the GW are available, hanging, hooping and so on.

This is an industrial device with high reliability which could be applied to the complexity environment. Operation temperature could achieve to $[-40 + 75^{\circ}\text{C}]$.

APPLICATIONS

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

FEATURES

- 27dBm max output power
- High sensitivity with $-141\text{dBm}@300\text{bps}$
- Half duplex mode for LoRaWAN communication
- LoRaWAN uplink: 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)
- Communication data rate 292bps~ 50kbps
- Support LoRaWAN Class A/B/C



- LoRaWAN antenna Gain: 3dBi default
- Compatible with PoE IEEE 802.3 af/at
- 10/100M Ethernet or 4G modem(WCDMA/TD-LTE/GPRS/EDGE) for networking
- synchronization with GPS pps signal
- Extended industrial operating temperature: -40°C to +75°C.
- Outdoor use: IP66 and Easy to install
- ESD Protection: Contact 8kv; Air 16kv
- Surge (LAN/PoE): 4kv (common mode); 3kv (differential mode)
- Very small size: 145 x 95 x 40 mm
- Operating frequency bands (Option when order):
 - 434MHz, 470MHz/510MHz, 780MHz, 868MHz, 915MHz

ORDERING INFORMATION

Part Number	Frequency Band	MAX TX POWER
RHF2S008P4G-434	430 - 437MHz	27dBm
RHF2S008P4G-470	470 - 490MHz	27dBm
RHF2S008P4G-780	779 - 787MHz	27dBm
RHF2S008P4G-868	859 - 871MHz	27dBm
RHF2S008P4G-915	900 - 930MHz	27dBm

CONTACT

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