8 Channels LoRaWAN® Industrial Gateway

DESCRIPTION



RisingHF 8 Channels LoRaWAN® Industrial gateway RHF2S225 is an easy installation outdoor industrial gateway based on LoRaWAN® protocol, which is embedded with Semtech's high performance multi-channel transceiver SX1302 and HLK platform.

The Gateway could connect to LoRaWAN® Cloud server via Ethernet network, LTE 4G or Wifi. The Industrial GW include 3 modes: AP, STA and PPPoE as Router. One RJ45 port is provided.

The Industrial GW is targeted to be used in Industry 4.0, smart building, smart Industry, smart manufacture and as a supplement for the industrial outdoor gateway.

APPLICATIONS

- Smart Industry
- Industry 4.0
- Smart manufacture
- Industrial control
- Smart building
- Building automation

FEATURES

- 22dBm max output power
- High sensitivity with -138dBm@300bps
- One single antenna to support Full duplex 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/C
- WIFI 2.4GHz, Compatible with WLAN 802.11b/g/n
  - AP mode
  - Station mode
  - PPPoE mode to connect to network
- 1xLoRaWAN® Antenna, 1xWIFI Antenna, 1x4G Antenna
  - LoRaWAN® antenna Gain: 2dBi default
  - WIFI antenna Gain: 2dBi default
  - 4G antenna Gain: 0.8dBi default
- 10/100M Ethernet, LAN/WAN switch automatically via one RJ45
- Configurable via WIFI or LAN
- LED status for Power/WIFI/LoRaWAN®/USB
- DC 19V input
- outdoor high reliability with 4kv surge test

- Operating frequency bands (Option when order):
  - 470MHz/510MHz, 868MHz, 915MHz.

ORDERING INFORMATION

Table 1 RHF2S225BH8 Series (with 4G)

Number	Product series	Models	Band@Uplink	Band@Downlink	Feature
1	RHF2S225BH8	RHF2S225BH8-470	470MHz~490MHz	470MHz~510MHz	8channel/Half duplex
2		RHF2S225BH8-868	859MHz~871MHz	859MHz~871MHz	8channel/Half duplex
3		RHF2S225BH8-915	900MHz~930MHz	900MHz~930MHz	8channel/Half duplex
4		RHF2S225BH8-923	900MHz~930MHz	900MHz~930MHz	8channel/Half duplex

Table 2 RHF2S225AH8 Series (without 4G)

Number	Product series	Models	Band@Uplink	Band@Downlink	Feature
1	RHF2S225AH8	RHF2S225AH8-470	470MHz~490MHz	470MHz~510MHz	8channel/Half duplex
2		RHF2S225AH8-868	859MHz~871MHz	859MHz~871MHz	8channel/Half duplex
3		RHF2S225AH8-915	900MHz~930MHz	900MHz~930MHz	8channel/Half duplex

Table 3 RHF2S225AF8/BF8 Series (Full Duplex)

Number	Product series	Models	Band@Uplink	Band@Downlink	Feature
1	RHF2S225AF8	RHF2S225AF8-470（不含4G）	470MHz~490MHz	470MHz~510MHz	8channel/Full duplex
2	RHF2S225BF8	RHF2S225BF8-470（含4G）	470MHz~490MHz	470MHz~510MHz	8channel/Full duplex

CONTACT

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