Compact indoor LoRaWAN Gateway

DESCRIPTION

RHF2S027M is a compact LoRaWAN gateway developed by RisingHF. The gateway equipped MT7620A as main processor, which integrates a 580MHz MIPS CPU running Linux OS. Semtech gateway chip SX1308 is imported in the gateway. It is capable to handle a high amount of LoRa traffic and easy to deploy LoRaWAN network with good indoor coverage.

RHF2S027M can use 10/100M Ethernet or Wi-Fi as backhaul to connect with network server. It contains a high performance 802.11ac dual band Wi-Fi Router, the Wi-Fi router can be configured in three mode, AP/Station/AP-Station mode, so it can work as a standard Wi-Fi access point or a station client or as a Wi-Fi extender to expand existing Wi-Fi network coverage.
An internal web UI is used for quick configuration and maintenance of all the gateway parameter, this web UI can be accessed via WIFI AP interface.

RHF2S027M is designed for indoor usage, can support LoRaWAN class A/C application. Suggested operation temperature -20°C to +55°C. Gateway is powered by an AC-DC adapter with power rating 12v/1A.

APPLICATIONS

- Smart Home
- IOT
- Industrial control

- Smart Security
- Smart Building or Building automation
- Environment monitoring

FEATURES

- Maximum output power：26dBm
- High sensitivity：-140dBm@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 Wi-Fi as backhaul
- Quick configuration and maintenance through Wi-Fi
- Wi-Fi feature:

- ■ Protocol: 802.11 a, b, g, n, ac
- ■ Frequency Bands 2.4 GHz and 5 GHz
- ■ 1x WAN port, 2x LAN port (100Base-T)
- ■ Security: WPA and WPA2 personal
- ■ Network Mode: AP, Station and AP+Station hybrid mode, and the wireless speed up to 300Mbps
- ● Supports USB storage device expansion
- ● Power supply：AC-DC adapter with power rating 12v/1A
- ● Operating temperature: -20°C -+55°C

ORDER INFORMATION

order	model	Band@Uplink	Band@Downlink	Specifications
1	RHF2S027MEH8-868	859MHz~871MHz	859MHz~871MHz	8channel/Half duplex, band 868MHz
2	RHF2S027MEH8-915	900MHz~930MHz	900MHz~930MHz	8channel/Half duplex, band 915MHz

CONTACT

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