8 Channels LoRa/LoRaWAN Gateway Module

DESCRIPTION

RHF0M301 8 channels LoRaWAN Module is a high performance and small size module embedded with Semtech's powerful LoRa/LoRaWAN gateway chip SX1301.

The application of this 8 channels LoRa/LoraWAN gateway module is targeted at wireless sensor network , AMR and others IOT applications. It could help customer speed up their design on LoRa/LoRaWAN gateway.

This module could be customized for the operation band. Now 434MHz, 470 to 510MHz, 780MHz, 868MHz and 915MHz are supported.

APPLICATIONS

- Internet of Things
- Security and alarm system gateway
- Base station of LPWAN

- LoRa/LoRaWAN Gateway
- AMR Concentrator
- Industrial control Concentrator

FEATURES

- Small size: 63mm X 40mm
- 24 pins DIP package, easy to be integrated into a gateway
- Band options:
  - ➢ 434MHz / 470MHz / 780MHz / 868MHz / 915MHz
- 10 programmable parallel demodulation paths
- 49 LoRa demodulators and 1 GFSK demodulator embedded
- Automatic adaptive to spreading factor from SF12 to SF7 in each of 8 channels
- High performance:
  - ➢ -142.5dBm sensitivity @300bps;
  - ➢ 27dBm max output power;
- User-friendly interface: SPI connection
- GPS PPS input is available for synchronization, reserved for LoRaWAN Class B
- Single +5V supply
- Support LoRaWAN protocol, Class A, Class B and Class C

ORDERING INFORMATION

Part Number	Frequency Band	MAX TX POWER
RHF0M301-434	430 - 437MHz	27dBm
RHF0M301-470	470 - 490MHz	27dBm
RHF0M301-780	779 - 787MHz	27dBm
RHF0M301-868	859 - 871MHz	27dBm
RHF0M301-915	900 - 930MHz	27dBm

CONTACT

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