

Ultra-small Size LoRaWAN Module

DESCRIPTION

RHF0M003 LoRaWAN Module is a low cost, low power and ultra-small size module, embedded with Semtech's LoRa propriety chip SX127x and ST's ultra-low power MCU STM32L07x.

RHF0M003 LoraWAN module is targeted application at wireless sensor network , AMR, wearable devices and others IOT devices powered by battery which need low power consumption to extend the battery life.



APPLICATIONS

- Almost All Kinds of LoRaWAN End Nodes
- Automatic Meter Reading
- Industrial Control
- Internet of Things
- Security and Alarm System
- Wearable Devices

FEATURES

- Low power consumption: 1.4uA sleep current in WOR mode
- Ultra Small size: 14mm X 20mm
- 18 pins SMT package
- Operating frequency band option
- High performance:
 - *RHF0M003-LF20*: TXOP=20dBm@434MHz/470MHz
 - *RHF0M003-HF20*: TXOP=20dBm@868MHz/915MHz
 - -139dBm sensitivity for SF12 with 125KHz BW
 - 160dB link budget, suitable for long range
- User-friendly interface
 - LPUART/USART/I2C/USB;
 - 2×ADC;
 - 10×GPIOs;
- Support global LoRaWAN protocol
 - *RHF0M003-LF20*: EU433, CN470 and CN470Prequel;
 - *RHF0M003-HF20*: EU868, US915 and US915Hybrid, CN779, AU915, AS923, KR920, IN865;

ORDERING INFORMATION

Part Number	MCU	Frequency Band	MAX TX POWER	AT Command
RHF0M003-LF20	ROM 128KB / RAM 20KB	434/470MHz	20	Yes
RHF0M003-HF20	ROM 128KB / RAM 20KB	868/915MHz	20	Yes

CONTACT

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