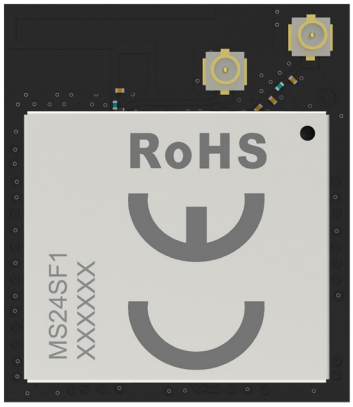
MINEWSEMI

LoRa Module

MS24SF1



Datasheet

V 1.0.0

MS24SF1-nRF52840+SX1262

Ultra-long-range,IPEX+PCB design,high-sensitivity,BLE5.3, Dual-low-power-chip-combo

MS24SF1 module is integrates both BLE and LoRa wireless connectivity modes, supporting FSK, GFSK, and LoRa modulation modes. It enables point-to-point communication and supports data transmission via BLE. The device is initially shipped as a blank module with demo firmware for testing purposes. It offers long-range communication capabilities, extremely low power consumption. LoRa™ modulation technology resolves the challenge of simultaneously achieving long-distance communication, interference resistance, and low power consumption, which traditional design approaches struggle with.

FEATURES

- Available with ARM Cortex-M4 core
- Low power and dual low-power chip combo
- Long range transmission, City environment 5KM
- Exclusive dual IPEX+PCB design, flexible antenna optional
- BLE antenna support PCB and IPEX optional
- BLE5.3, support BLE long-range
- More IO port support, UART, SPI, I2C, etc.

KEY PARAMETER

MS24SF1			
Chip Model	nRF52840+SX1262	**Antenna**	PCB+IPEX
Module size	27x23.5x2.8mm	**GPIO**	35
Receiving Sensitivity	LoRa: -146dBm BLE: -96dBm, 1Mbps -103dBm, 125Kbps	**Transmission Power**	LoRa: +22dBm BLE: -40 ~ +8dBm
Current(TX)	122.8mA	**Current(RX)**	9.3mA

APPLICATION

Smart city

smart medical care

Cold chain transport

Security warning equipment

Environmental sensor

Instrument and meter Smart meter

COPYRIGHT STATEMENT

RELATED DOCUMENTS

- SX1261-2_Chip_Datasheet
  https://en.minewsemi.com/file/SX1261-2_Chip_Datasheet_EN.pdf
- nRF52840_Chip_Datasheet
  https://en.minewsemi.com/file/nRF52840_Chip_Datasheet_EN.pdf
- MinewSemi_Product_Naming_Reference_Manual_V1.0
  https://en.minewsemi.com/file/MinewSemi_Product_Naming_Reference_Manual_EN.pdf
- MinewSemi_Connectivity_Module_Catalogue_V2.0
  https://en.minewsemi.com/file/MinewSemi_Connectivity_Module_Catalogue_EN.pdf

For product change notifications and regular updates of Minewsemi documentation, please register on our website: **www.minewsemi.com**

MINEWSEMI

SHENZHEN MINEWSEMI CO., LTD.

0086-755-2801 0353
https://minewsemi.com
minewsemi@minew.com
https://store.minewsemi.com
No.8, Qinglong Road, Longhua District, Shenzhen, China