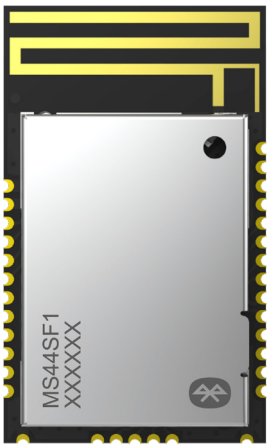
MINEWSEMI

Bluetooth LE Module

MS44SF1



Datasheet

V 1.0.0

MS44SF1-nRF52820

Low power consumption, long range, cost-effective Bluetooth module supporting master-slave switching

The MS44SF1 is a master-slave module that can be switched into master/slave mode via commands; master and slave cannot work at the same time and only one-to-one connections can be made. The device defaults to master mode. In master mode, the device can be scanned and connected through commands. Scanning can be set up with broadcast name filtering and MAC address filtering to get the relevant device. Connection can only specify the MAC address to initiate the connection. The device communicates with the MCU through the UART interface. In the command mode, the command can be sent through the UART to modify the scanning interval, scanning timeout, connection interval, broadcasting interval, broadcasting customized data, baud rate, etc. The MCU sends switching commands to the slave through the UART, and the slave, with the broadcasting and connecting status, can be connected by the host and act as a bridge between the host and the MCU to carry out the transparent transmission of data Transmission.

FEATURES

- Transmission distance up to 600m
- Support master-slave switching
- The fastest transmission rate can reach 11kB/s
- Support serial port instruction configuration
- 1:1 connection
- Support iBeacon broadcast mode

KEY PARAMETERS

MS44SF1-nRF52820			
Chip Model	nRF52820	**Antenna**	PCB
Module Size	20×12×2mm	**GPIO**	16
Flash	256KB	**RAM**	32KB
Receiving Sensitivity	-96dBm	**Transmission Power**	-40 ~ +8dBm
Current(TX)	0dBm- 4.9mA	**Current(RX)**	4.7mA

APPLICATION

Smart Home

Consumer Electronics

Intelligent Medical Care

Security Equipment

Automotive Equipment

CERTIFICATION

Bluetooth®

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RELATED DOCUMENTS

- nRF52820_Chip_Datasheet
  https://en.minewsemi.com/file/nRF52820_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

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MINEWSEMI

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