

Bluetooth LE Module MS88SF3



Datasheet v 1.0.0

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MS88SF3-nRF52840

High performance, full IO port, Support BLE master-slave mode switching, serial port command configuration, Bluetooth transmitting master-slave module

The MS88SF3 is a master slave module that can be switched into master/slave mode through instructions. Master and never can work simultaneously and can only be connected one-on-one. The device defaults to host mode. In main mode, devices can be scanned and connected through instructions. Scanning can set broadcast name filtering and MAC address filtering to obtain relevant devices. The connection can only be initiated by specifying a MAC address. The device communicates with the MCU through the UART interface. In command mode, the UART can send commands to modify the scan interval, scan timeout, connection interval, broadcast interval, broadcast custom data, baud rate, etc. MCU sends switching commands to the slave through UART, which has broadcast and connection status and can be connected by the host, serving as a bridge between the host and MCU for transparent data transmission.

FEATURES



Supports master-slave switching



Full IO port



Transmission rates as fast as 11kB/S



Support serial command configuration



Supports protocols such as ANT, BLE, BLE MESH, ZIGBEE, and THREAD

KEY PARAMETER

MS88SF3-nRF52840			
Chip Model	Nordic nRF52840	Antenna	PCB
Module Size	18.5×12.5×2mm	GPIO	48
Flash	1M	RAM	256KB
Receiving Sensitivity	-95dBm	Transmission Power	-40~ +8dBm
Current(TX)	0dBm-4.8mA	Current(RX)	4.6mA
Firmware	Master slave transparent firmware		

APPLICATION



Home



Flectronics



Intelligent Medical care



Smart wearable



Security Equipment



Automotive Equipment

CERTIFICATION







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RELATED DOCUMENTS

- 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
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