

Bluetooth LE Module

MS50SF7



Datasheet

V 1.0.1




MS50SF7-nRF52832


Bluetooth master-slave transparent transmission module that supports master-slave switching, serial command configuration, power supply voltage detection, and iBeacon broadcast mode

The MS50SF7 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




Support master-slave switching




The fastest transmission rate can reach 11kB/s




Support serial port instruction configuration



Support power supply voltage detection



1:1 connection



Support iBeacon broadcast mode

KEY PARAMETER

MS50SF7-nRF52832			
Chip Model	Nordic nRF52832	Antenna	PCB
Module Size	9.8×8.4×1.6mm	GPIO	24
Flash	512kB	RAM	64KB
receiver sensitivity	-96dBm	Transmitting power	-40~ +4dBm
Current(TX)	0dBm-5.3mA	Current(RX)	5.4mA
Firmware	Master slave switch transparent firmware		

APPLICATION



Smart Home



Consumer Electronics



Intelligent Medical care



Security Equipment



Automotive Equipment

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RELATED DOCUMENTS

- nRF52832_Chip_Datasheet
https://en.minewsemi.com/file/nRF52832_Chip_Datasheet_EN.pdf
- MinewSemi_Product_Naming_Reference_Manual_V1.0
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