MINEWSEMI

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
  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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