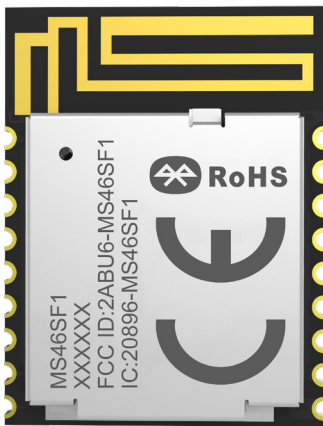


Bluetooth LE Module

MS46SF1



Datasheet

V 1.0.0



MS46SF1-nRF52805

Bluetooth module that supports master-slave switching, one-on-one connection, serial command configuration, and iBeacon broadcast mode

The MS46SF1 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



1:1 connection



Support
iBeacon broadcast mode

KEY PARAMETERS

MS46SF1-nRF52805			
Chip Model	Nordic nRF52805	Antenna	PCB
Module Size	15.8×12×2mm	GPIO	6
Flash	192kB	RAM	24KB
receiver sensitivity	-97dBm	Transmitting power	-40~ +4dBm
Current(TX)	0dBm-4.6mA	Current(RX)	4.6mA
Firmware	Master slave switch transparent firmware		

APPLICATION



Smart
Home



Consumer
Electronics



Intelligent
Medical Care



Security
Equipment



Automotive
Equipment

CERTIFICATION



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RELATED DOCUMENTS

- nRF52805_Chip_Datasheet
https://en.minewsemi.com/file/nRF52805_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
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