NORDIC NRF51822 BLE4.0

Low power Bluetooth BLE4.0 main module TTL serial port transparent transmission Nordic igyro nRF51822

Characteristics :

1.Transparent transmission mode, using standard UART (TTL) interface, the module only performs data transfer, two-way data transmission and reception, without any agreement

2.Support serial to order, user can change module serial port baud rate (default 115200bps), bluetooth name, bluetooth MAC address and other basic parameters;

3. Serial port hardware allows control, open on demand, very suitable for low power control applications;

4.Supports any serial port data packet length, unlimited, free to transfer any product data

5.Can be used as ibeacon product application, can change the thrust content by serial port

6.Long communication distance: 30 meters

7.High communication rate: up to 6 Kbyte / s

8.Wide supply voltage: 1.8 ~ 3.6V

9.Low power consumption: minimum less than 1uA

10.Module size: 15.2 * 15.7mm

11. Working temperature: -20 ° C ~ 75 ° C

Product Application

1.sensor data acquisition application

2. control and monitoring of industrial machines

3.Position machine data transmission

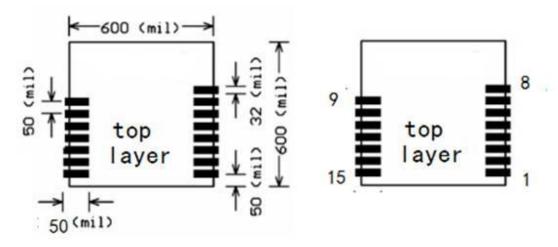4. wireless keyboard, wireless mouse, gamepad;

5. light control system;

6. intelligent home control system;

7. Anti-lost device;

8.ibeacon application

9.Related cell phone accessories

Definition of size and spindle

Arrangements

管脚	I/O 口号	输入/输出	定义	功能说明
1	P0.08	输出	UART_TX	串口数据输出管脚
2	P0.09	输入	UART_RX	串口数据接收管脚
3	P0.12	输出	BLE_SATE	蓝牙状态指示管脚，如果接 led 请串联电阻，否则容易由于电流过大造成模块损坏。 配对搜索模式：蓝牙状态指示管脚以大约 100ms 周期电平取反输出；可通过 START_PAIRING 管脚控制进入此模式，在此模式下主模块会去搜索一定范围内的从模块（故可以把一个从模块靠近主模块，进行靠近配对），当搜索到从模块之后就会去配对连接，并且绑定记录从模块的 mac 地址。 绑定搜索模式（已经配对）：蓝牙状态指示管脚以大约 100ms 周期电平取反输出；当主模块已经配对连接时，如果断开连接或者重新上电，就会进入此模式，会自动去连接绑定记录的从模块。这两种搜索模式连接上之后，蓝牙状态指示管脚都为高电平
4	SWDIO(RESET)			烧录数据管脚，非烧录时是复位脚
5	SWCLK			烧录时钟管脚

6	P0.17	输入（弱上拉）	START_PAIRING	启动进入配对搜索模式管脚，低电平有效，可接按键，检测到按键按下超过200ms，且按键放开后，不管模块处于何种状态，都开始配对搜索
7	P0.18			
8	P0.19			
9	GND			电源地
10	VCC			供电管脚（1.8V~3.6V）
11	P0.25			
12	P0.26			
13	P0.27			
14	P0.28	输入	UART_BAUD_SEL0	串口波特率选择管脚（两个管脚都悬空默认波特率为115200） UART_BAUD_SEL1 : UART_BAUD_SEL0 00:9600 01:19200 10:38400 11:115200