

WIFI 模块规格书

WiFi Module Specification

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1. 产品简介（Product introduction）

本 WiFi 模块应用于锂电池管理系统（BMS），支持通过 TTL 串口或 RS485 接口灵活采集 BMS 数据，实现设备数据的无线传输与远程监控管理。

This WiFi module is applied to Lithium Battery Management Systems (BMS). It supports flexible acquisition of BMS data via TTL serial port or RS485 interface, enabling wireless data transmission and remote monitoring and management of equipment.

用户只需通过浏览器访问模块，即可轻松完成实时数据监控、运行参数配置以及远程固件升级等操作，为电池系统的智能化运维提供便捷、高效的解决方案。

Users can easily perform real-time data monitoring, operating parameter configuration, remote firmware upgrade and other operations by accessing the module through a browser, providing a convenient and efficient solution for the intelligent operation and maintenance of battery systems.

2. 产品基本参数（Basic product specifications）

序号 (Serial number)	项目 (Project)	具体参数 (Argument)
1	宽范围供电电压(Wide Range Supply voltage)	9V—90V
2	运行功耗(Operating power consumption)	≤450(@12V)mW
3	WIFI网络频段(WiFi Frequency Band)	2.4GHz
4	通信接口(Communication interface)	TTL/RS485
5	工作温度(Operating temperature)	-40-80℃
6	WIFI模块尺寸(WIFI Module dimensions)	60.5*60.5*12.6mm

3. WIFI 模块外观 (WIFI Module appearance)



图 1/Figure1

4. 接口与线缆 (Interface and cables)



图 2-1/Figure2-1

表 1-接口定义/List1-interface definition

连接器 Connector	序号	名称	定义
接口 Interface GH1.25-14P	1	VCC	电源 Power supply
	2	NC	预留引脚 Reserved pin
	3	RS485-A	RS485-A
	4	RS485-B	RS485-B
	5	RST	复位
	6	BOOT	BOOT
	7	RS485-S	485 开关 RS485 switch
	8	GND	接地 Ground connection
	9	TX0	串口 0 发送 UART0 Transmit
	10	RX0	串口 0 接收 UART0 Receive
	11	RX1	串口 1 接收 UART1 Receive
	12	TX1	串口 1 发送 UART1 Transmit
	13	NC	预留引脚 Reserved pin
	14	GND	接地 Ground connection

注：485 接口和 UART1-TTL 接口不能同时使用,波特率默认 115200

Note: The RS485 interface and UART1-TTL interface cannot be used simultaneously, Baud rate: 115200 by default.

WIFI 模块配套提供了 2 种接口的线缆，一条为 RS485 接口，一条为 TTL 串口接口，方便客户配套使用。

The Wi-Fi module is supplied with two types of matching interface cables: one for the RS485 interface and the other for the TTL serial interface, facilitating customer supporting

application.

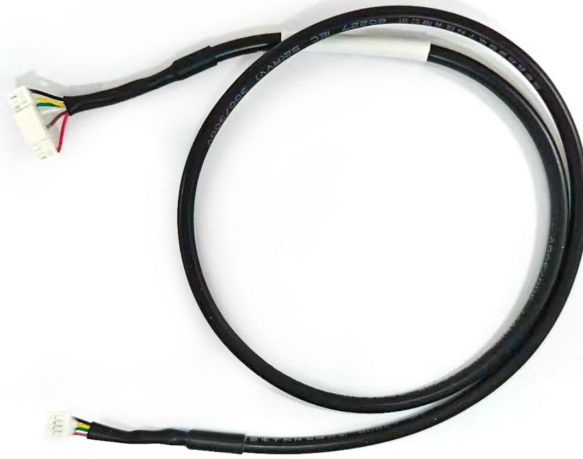


图 2-2 TTL 线束/ TTL Cables Figure2-2



图 2-3 RS485 线束/RS485 Cables Figure2-3

5. 功能说明(Function Description)



WIFI 模块工作模式设置：通过侧滑按键设置网络模式，分别为局域网模式和互联网模式。

Wi-Fi module operating mode configuration: Use the slide switch to set the network mode, including local network mode and Internet mode respectively.

- 局域网模式：WIFI 模块与用户设备接入同一局域网，通过浏览器访问模块，实现数据查看及配置。

LAN Mode: The Wi-Fi module and user devices connect to the same local area network. You can access the module via a browser to view data and perform configuration.

- 互联网模式：模块通过云服务器实现远程访问，支持跨网络设备管理。

WAN Mode: The module enables remote access via a cloud server and supports

cross-network device management.

按键功能(Key Function):

- 单击按键: WIFI 模块执行软件复位 (重启)。

Single press the key: The Wi-Fi module performs a software reset (restart).

- 长按按键: 长按大于 3S, 清除已保存的 WiFi 配置信息 (包括 SSID 及密码), 恢复出厂配置状态。

Press and hold the key: Hold for more than 3 seconds to clear the saved Wi-Fi configuration information (including SSID and password) and restore the factory default settings.

LED 指示灯(LED indicator):

- LED 指示灯 L1(LED Indicator L1):

常亮: 当前为互联网模式

Steady on: Wan mode is currently active.

熄灭: 当前为局域网模式

Off: LAN mode is currently active.

- LED 指示灯 L2(LED Indicator L2):

闪烁: AP 模式 (模块作为热点)

Blinking: AP mode (the module acts as a hotspot).

常亮: STA 模式 (模块作为设备连接路由器)

Steady on: STA mode (the module connects to the router as a device).

- LED 指示灯 L3(LED Indicator L3):

AP 模式(AP Mode):

闪烁: 无设备连接

Blinking: No device connected

熄灭: 已有设备成功接入

Off: Devices have connected successfully

STA 模式(STA Mode):

慢闪: 连接路由器失败

Slow Blinking: Failed to connect to the router

快闪：固件升级中

Fast blinking: Firmware upgrading

常亮：服务器连接失败

Steady on: Failed to connect to the server

熄灭：运行正常

Off: Normal operation