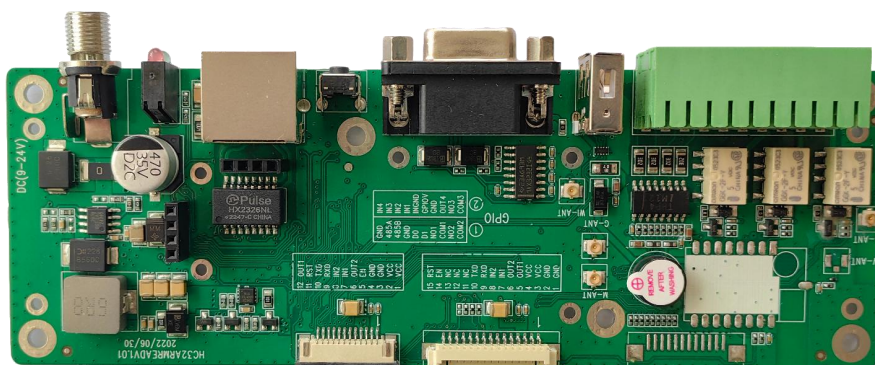


SLD1090 接口板说明手册



**With the English version following
the Chinese version.**

编号：20223021401

版本：V1.2

日期：2023/07/14

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版本记录

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	V1.0	林泳钦	2023-02-14	初始版本	无
	V1.1	林泳钦	2023-05-22	功能更新	添加 WIFI, 4G, RS485 使用说明
	V1.2	林泳钦	2023-07-14		更换了产品图片和 GPIO 输出控制示意图

注：每次更改归档文件（指归档到事业部或公司档案室的文件）时，需填写此表。

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第 1 章 概述

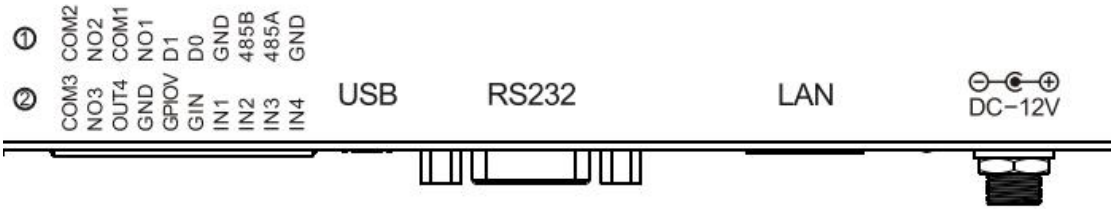
SLD1090 是一款方便射频模块测试和组装整机的接口板。该系列产品采用工业级设计。板子可以直接连接各种模块：SIM7100、SIM5100、SIM3100、SLR1200、SLR5600 等模块。提供 USB、RS232、TCP/IP 通信接口。4 进 4 出 GPIO 口(其中 3 路输出是继电器)，驱动能力强，可以直接驱动指示灯、报警器等外设。基于板子可以方便地对射频模块性能进行评估，也可配合外壳做成固定式读写器，结构紧凑、方便安装、性能稳定，适合各种工业应用场合。同时方便进行 GPIO 操作、复位、上电控制等测试。接口板供电 9-24V 或网口 POE 供电，外接电源供电请使用配套的电源适配器供电（12V/3A），POE 支持标准为 802.3at/af。

第 2 章 技术参数

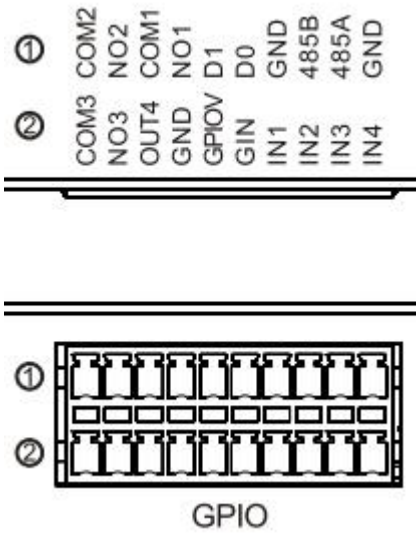
硬件性能		
CPU	HC32F460JEUA	
硬件接口		
通信接口	RJ45 (10M/100M), RS232 （ 9600-230400bps ） , USB （ 9600-921600bps ） , RS485 （19200-230400bps）	
选配	WIFI (2. 4G), 4G (全网通), POE （802. 3af/802. 3at）	
协议	Modbus, HID, HTTP, HTTPS, MQTT, TCP	
指示灯	电源指示灯（绿灯），状态指示灯（红灯）	
GPIO	4 路输入, 4 路强驱动输出（每路拉电流可以达到 250mA）	
供电/功耗		
供电	供电 9-24V 标配适配器 12V/2A POE 供电（兼容 802. 3af 或者 802. 3at 标准）	
功耗	搭载 SIM7400	待机状态 1. 76W 工作状态 16. 2W
	单板	工作状态 0. 7W
POE 供电能力	用 100 米超五类网线，不同型号 POE 交换机有偏差 采用 803. at 方式供电，最大可带负载 25.1w(11.93V/2.1A)	
环境特性		
工作温度	-25℃ - +65℃	
存储温度	-40℃ - +85℃	
湿度	相对湿度：5-95% 非冷凝	
安全性		
适配器	空气放电 8KV, 接触放电 6KV；浪涌抗扰性：4KV	
单板	接触放电:8KV	
尺寸		
长宽高	160mm X 64mm X 19. 2mm	

第 3 章 硬件说明

3.1 接口说明



GPIO:



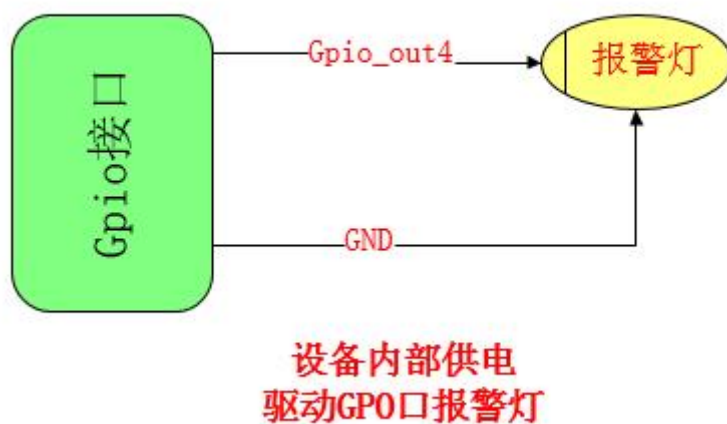
接口名称	电气特性
COM2	继电器 2 公共端
NO2	继电器 2 常开端
COM1	继电器 1 公共端
NO1	继电器 1 常开端
D1	NC
D0	NC
GND	参考地
485/A	RS485 接口 A 端
485/B	RS485 接口 B 端
GND	参考地
COM3	继电器 3 公共端
NO3	继电器 3 常开端

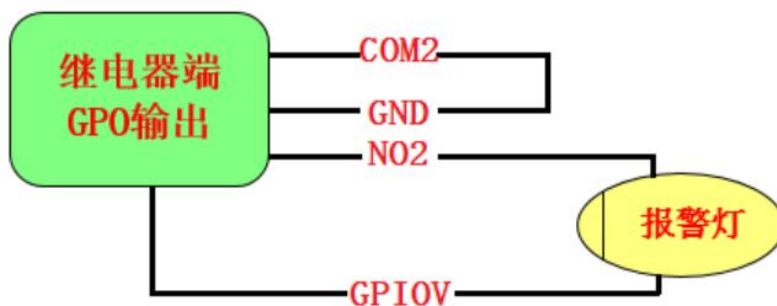
OUT4	GPIO 输出，输出电压范围：0 至 (VGPI0-0.3V) 拉电流能力：内部供电时四路总电流可到 1A, 单路 250mA 外部供电时每路可以达到 1A 设备逻辑 0 输出高电平 (VGPI0-0.3V) 设备逻辑 1 输出低电平 (0-0.3V, 内部 3K 电阻下拉)
GND	参考地
GPIOV	GPIOV, GPIO 供电正极
GIN	GND_GPIO, GPIO 供电地端, 需要采用内部供电时接到 GND
IN1	GPIO 输入，输入电压范围是 (0-24V) 输入高电压 (5-24V) 判定为逻辑 0 输入低电压 (0-0.7V) 判定为逻辑 1
IN2	
IN3	
IN4	

3.2 GPIO 接线说明

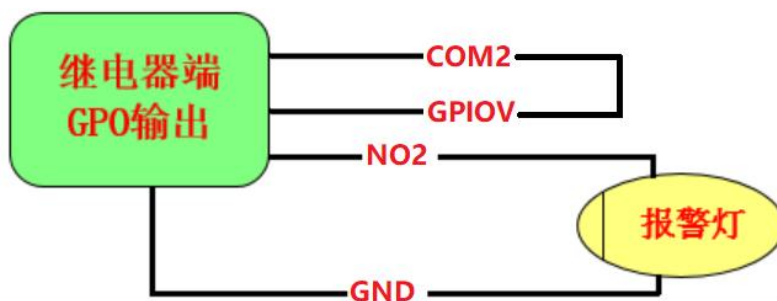
1 先根据实际情况选用内部供电或外部供电；使用大功率时建议使用外部供电，4 路 GPIO_OUT 总输出电流不建议超过 500ma。

2 采用设备内部供电如下图：

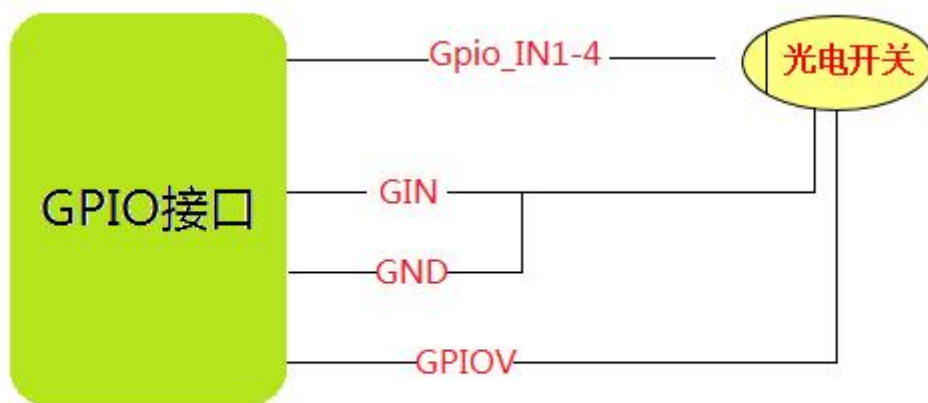




继电器端驱动GPO口报警灯
共阳极



继电器端驱动GPO口报警灯
共阴极

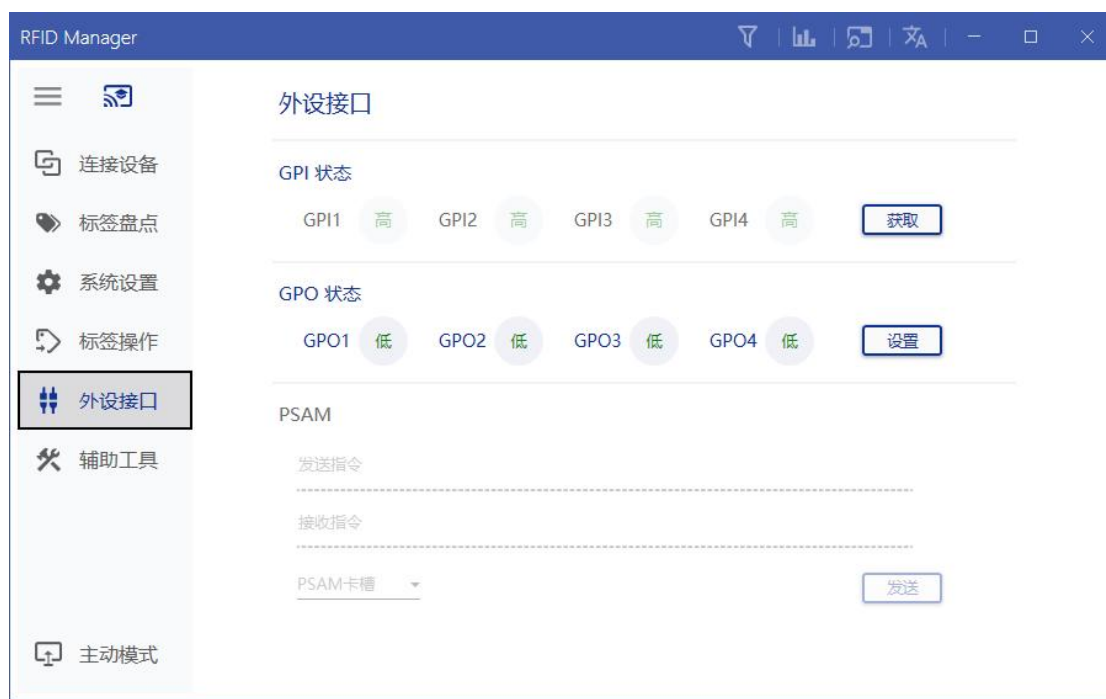


设备内部电源供电
连接PNP光电感应器

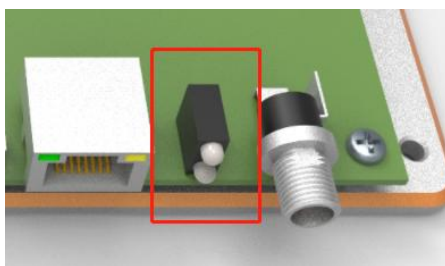
推荐使用 PNP 型感应器，不建议使用 NPN 型感应器。

GPIO 测试可以通过 DEMO 程序 ReaderManager.exe 实现。按照上面的步骤

和模块建立通信以后，点击外设接口，然后出现下面的界面，可以设置 GPIO 的状态，以及获取 GPIN 的状态。通过设置 gpo 或者触发 gpi 外置设备可以查看状态是否发生变化。如果不需要用到 GPIO 口，GPIO 引脚悬空即可。



3.3 指示灯介绍

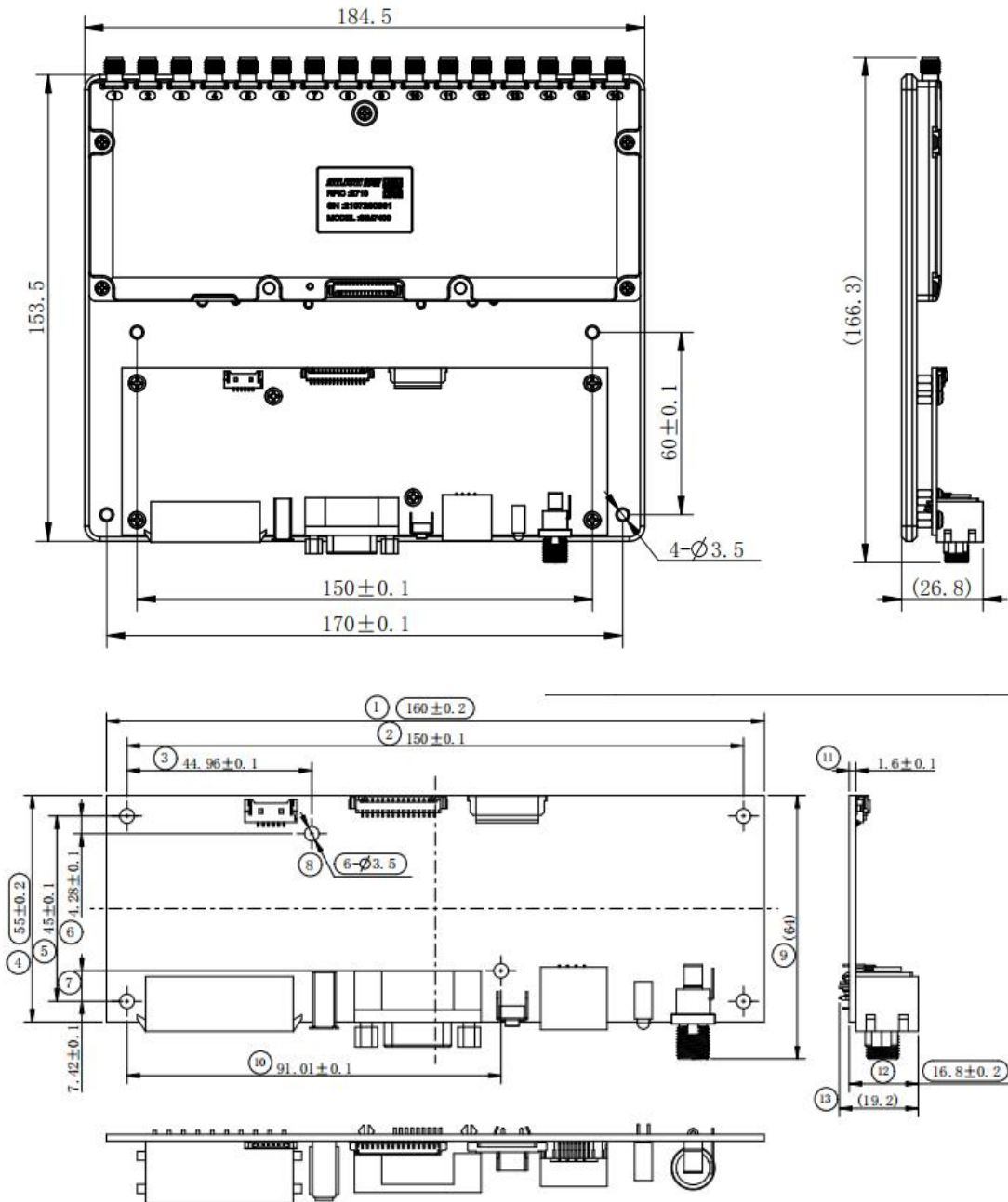


红色指示灯：状态指示灯。上电 5 秒后，红灯长亮，代表射频模块与底板连接成功。红灯闪烁，代表射频模块与底板未连接。

绿色指示灯：电源，上电后，绿灯亮起

3.4 外观尺寸

(单位:mm)



第 4 章 使用说明

4.1 IP 复位

可以在通电状态下长按复位按钮 3s，即可复位 ip，复位后的 ip 为 192.168.1.100。IP 复位以后网络参数如下：

IP 地址 :192.168.1.100

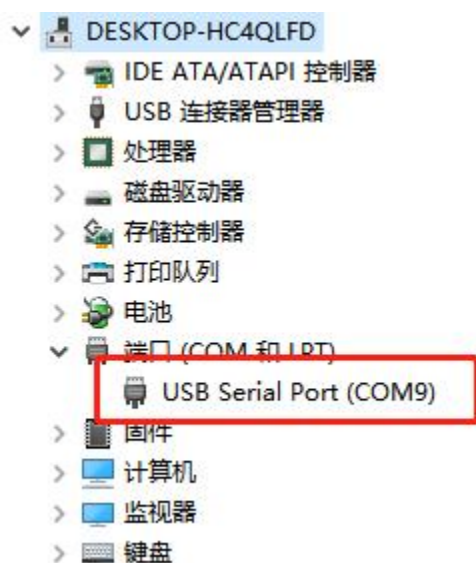
子网掩码 :255.255.255.0

网关 :192.168.1.1

4.2 演示 demo 连接

4.2.1 RS232 通讯

选择 RS232 串口通信，接上通讯接口后，给板子上电。可以通过一公一母的串口直通延长线连接上位机和接口板。打开测试 DEMO 程序 ReaderManager.exe。填写对应的串口号。选择对应的天线端口数点击连接（具体看板子连接的射频模块天线端口数，例如 SIM7100 有一个天线口，选择单天线，SIM7200 有四个天线口，选择四天线，SIM7300 有八个天线口，选择八天线）。连接上以后就可以进行相关模块测试。具体参考 DEMO 程序操作说明。



连接设备

连接设置

IP地址/串口号	com9
设备类型	4天线

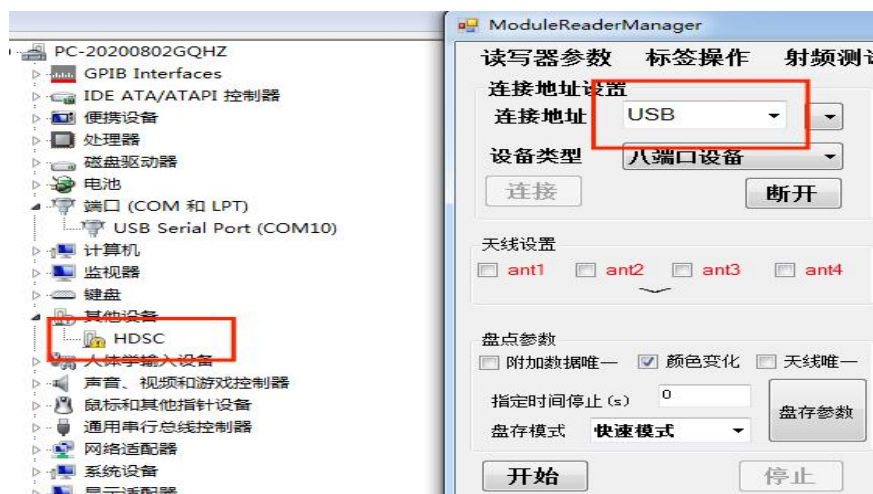
连接设备

4.2.2 USB 通讯

选择 USB 接上通讯接口后，给板子上电。首先需要选择与电脑（win10 及 win11 除外）操作系统匹配的 demo 进行连接。（64 位和 32 位）

- 最新标准版Demo_USB可用32位
- 最新标准版Demo_USB可用64位

连接电脑后，会自动识别为“HDSC”设备。打开测试 DEMO 程序 ModuleReaderManager.exe。在连接地址上填写“USB”后点击连接。连接上以后就可以进行相关模块测试。具体参考 DEMO 程序操作说明。



对于 win10 及以上的电脑，填写对应的串口号。选择对应的天线端口数点击连接即可。

4.2.3 网口通讯

在网口连接中，读写器的默认地址是 192.168.1.100，默认网关是 192.168.1.254，子网掩码为 255.255.255.0，与读写器连接的计算机 IP 地址与读写器的 IP 地址必须在同一网段下，如下图所示；正确设置计算机 IP 地址后，确保网络通畅后即可连接。打开测试 DEMO 程序 ReaderManager.exe。在连接地址上选择对应的 IP 地址后，点击连接。连接上以后就可以进行相关模块测试。具体参考 DEMO 程序操作说明。



4.2.4 WIFI 连接

AP 模式：设备经过初始化后，电脑可以搜索到一个“UHF-Reader”的信号。上位机可以直接连接，无需密码。连接 AP 热点后可以直接打开 DOME 进行测试。此时设备默认 IP 为 10.0.0.1。具体参考 DEMO 程序操作说明。

连接设置

IP地址/串口号

10.0.0.1

×

设备类型

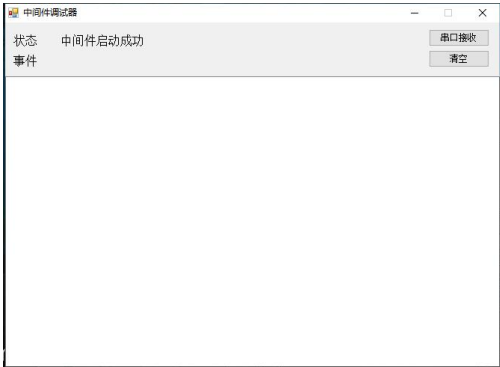
4天线

▼

🔗

🔌

STA 模式：先用网线连接设备与电脑。打开中间件 MiddlewareCore.exe 以便进入配置页面。打开即可。



中间件启动成功之后，在浏览器上输入 127.0.0.1:10090 进入配置页面。随后点击左侧“静态参数配置”，在读写器 IP 一栏输入“192.168.1.100”，点击获取。在这可看到设备的静态参数。包括 WiFi 参数。将无线网设置的工作模式改为 STA 模式，根据需要填入各自局域网相关的配置信息，建议直接分配静态 IP 以便快速关联设备。参数填写完后点击设置然后重新上下电。连接选定 WIFI 热点。此时可连接 WIFI “SILION-306”。

无线网设置	工作模式	STA模式
	DHCP	☐ 启用
	IP	192.168.31.103
	子网掩码	255.255.255.0
	网关	192.168.31.1
	DNS	192.168.31.1
	MAC地址	9CA525E2DAB6
	SSID	SILION-306
	密码	moduleinside

将设备的 IP 修改为 192.168.31.103。局域网同个频段。
随后打开 dome “ReaderManager.exe” 便可进行测试。此时输入 IP 为 192.168.31.103。

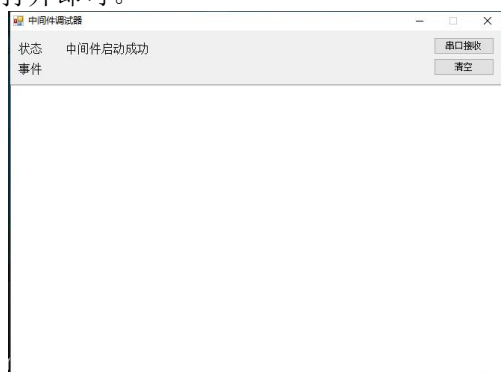
连接设备

连接设置

IP地址/串口号	192.168.31.103	✖
设备类型	4天线	▼
		

4.2.5 4G 网络 http 通讯

先用网线连接设备与电脑。首先打开中间件 MiddlewareCore.exe 以便进入配置页面。打开即可。



中间件启动成功之后，在浏览器上输入 127.0.0.1:10090 进入配置页面。随后点击左侧“运行参数配置”，在读写器 IP 一栏输入“192.168.1.100”，点击获取。随后硬件接口选择“4G”，软件协议选择“http”，HTTP 参数填写“http://222.128.15.242:12345/reader”，此路径为我司创建的 IP，无需修改。设置完成后点击“设置”。

读写器IP	192.168.1.100	获取	设置
▼			
数据上传选项	数据整理周期	2000	
	硬件接口	4G ▼	
	软件协议	HTTP ▼	
	HTTP参数	上传URL	http://222.128.15.242:12345/reader

添加 VPN 连接，以便接受服务器上的数据。

VPN 账号信息：地址：222.128.15.242

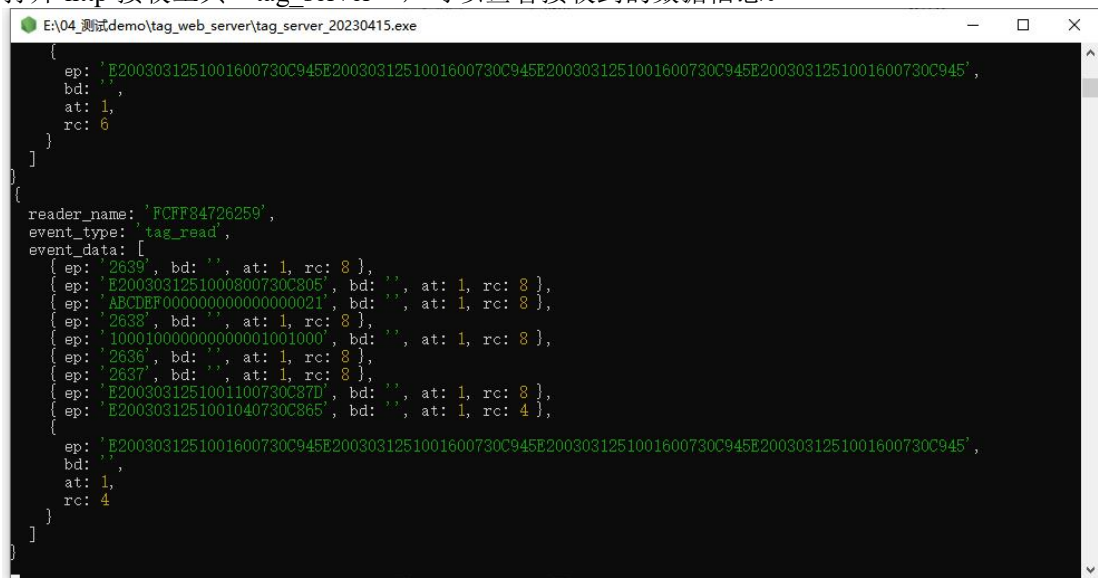
用户名：slweihu

密码：slweihu

配置完成后连接 VPN，可在网络连接列表查找。



打开 http 接收工具“tag_server”，可以查看接收到的数据信息。



4.2.6 RS485 连接

此处使用 RS485 转 RS232 的转换器演示。首先按照 RS485 接线方式连接开发板和 RS485 转换器。

先用网线连接设备与电脑。打开中间件 MiddlewareCore.exe 以便进入配置页面。打开即可。

中间件启动成功之后，在浏览器上输入 127.0.0.1:10090 进入配置页面。随后点击左侧“静态参数配置”，在读写器 IP 一栏输入“192.168.1.100”，点击获取。在这可看到设备的静态参数。点击高级参数可看到 RS485 的参数。亦可修改波特率。范围：19200-230400bps。默认 115200bps。

串口2参数	串口类型	RS485
	Modbus地址	2
	波特率	115200
	数据位	8
	停止位	1
	校验	无校验

修改参数后将设备重启后可在 Dome 上进行连接。具体参考 DEMO 程序操作说明。

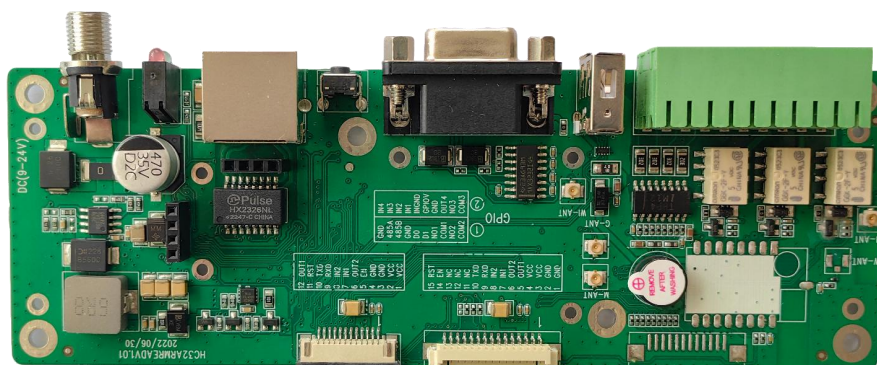
连接设备

连接设置

IP地址/串口号	com9	✕
设备类型	4天线	▼
		

无线信号强度

SLD1090 User Manual



Number: 20223021401

Version: V1.2

Date: 2023/07/14

Beijing Silion Technology Co.,Ltd.
Tel: (+86) 010-62153842/62153840
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Version Logging

File number	Version number	Modify by	Modify date	Reason for change	Modify Content
	V1.0		2023-02-14	Initial release	none
	V1.1		2023-05-22	Function update	WiFi, 4G, RS485
	V1.2		2023-07-14	Images update	Products Images and output control diagram

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1、Overview

SLP1090 is an interface board that is convenient for RF module testing and assembly. This series of products adopts industrial design. The board can be directly connected to various modules: SIM7100、SIM5100、SIM3100、SLR1200、SLR5600 and other modules. Provide USB、RS232、TCP/IP communication interface. 4 output 4 input GPIO port (output of 3 port is relays). Strong driving ability, can directly drive peripherals such as indicator lights and alarms. Based on board, the performance of the RF module can be easily evaluated, and it can also be made into a fixed reader with the shell, which is compact in structure, easy to install, and stable in performance, suitable for various industrial applications. it is convenient to perform GPIO operation, reset, power-on control and other tests. SLP1090 power supply is 9-24V or supply by Net port POE, external power supply please use the matching power adapter to supply power (12V/3A), POE support standard is 802.3at/af.

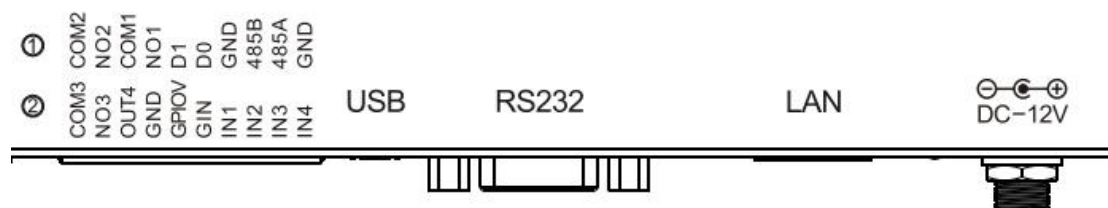
2、Technical Parameters

Hardware Performance		
CPU	HC32F460JEUA	
Hardware interface		
Communication connector	10M/100M Adaptive Net port，RS232（9600-230400ps），USB（9600-921600bps）	
Indicate light	Power light (Green), Status light (Red)	
GPIO	4 input, 4 output with strong driving ability (Each port current can reach 250mA)	
Power supply/consumption		
Supply	Supply: 9-24V, power adapter: 12V/3A POE supply (802.3at/af)	
Consumption	Equipped with SIM7400	Standby: 1.76W work: 16.2W
	single board	Work: 0.7W
POE supply	Use 100-meter Cat5e network cable, and different types of POE switches have deviations; using 803.at power supply, the maximum load can be 25.1w (11.93V/2.1A)	
Environment		
Work Temp	-25℃ - +65℃	
Storage Temp	-40℃ - +85℃	
Humidity	Relative humidity: 5-95% non-condensing	
Safety		
Adapter	Air discharge 8KV, contact discharge 6KV; surge immunity: 4KV	
Single board	Contact discharge:8KV	

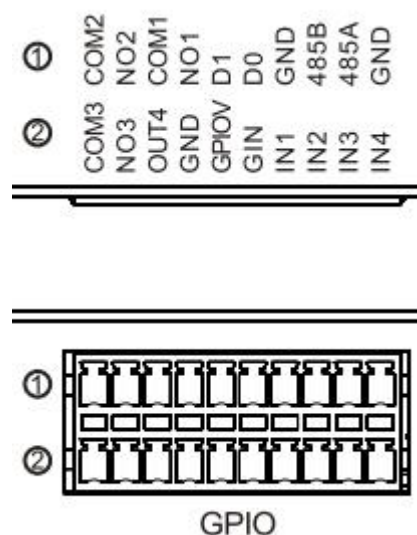
Dimension	
Size	160mm X 55mm X 19.2mm

3、Hardware Description

3.1 interface description



GPIO:

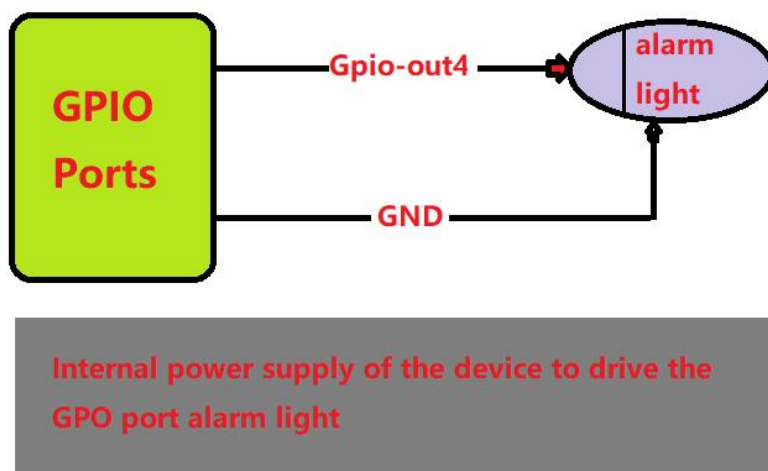


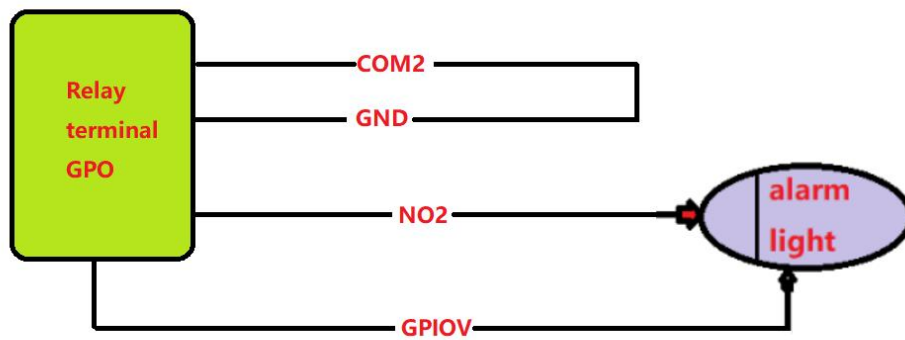
Interface name	Features
COM2	Relay 2 common port
NO2	Relay 2 normal open port
COM1	Relay 1 common port
NO1	Relay 1 normal open port
D1	WG 26/34 D1 or CAN-H
D0	WG 26/34 D0 or CAN-L
GND	Ground
485/A	RS485 interface A port
485/B	RS485 interface B port
GND	Ground
COM3	Relay 3 common port
NO3	Relay 3 normal open port

OUT4	GPIO output, output voltage range: 0 to (VGPIO-0.3V) Current-drawing capability: when the internal powered, the total current of four channels can reach 1A, and the single channel can reach 250mA Each channel can reach 1A when externally powered Device logic 0 output high level (VGPIO-0.3V) Device logic 1 output low level (0-0.3V, internal 3K resistor pull down)
GND	Ground
GPIOV	GPIOV, GPIO power supply positive
GIN	GND_GPIO, GPIO power supply ground, connect to GND when internal power supply is required
IN1	GPIO input, the input voltage range is (0-24V) Input high voltage (5-24V) judged as logic 0 Input low voltage (0-0.7) judged as logic 1
IN2	
IN3	
IN4	

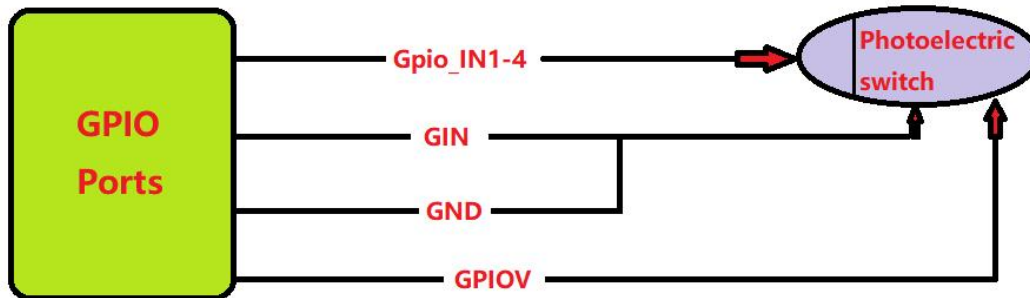
3.2 GPIO wiring description

- 1 First select internal power supply or external power supply according to the actual situation;
- 2 Use the internal power supply of the device as shown in the figure below:



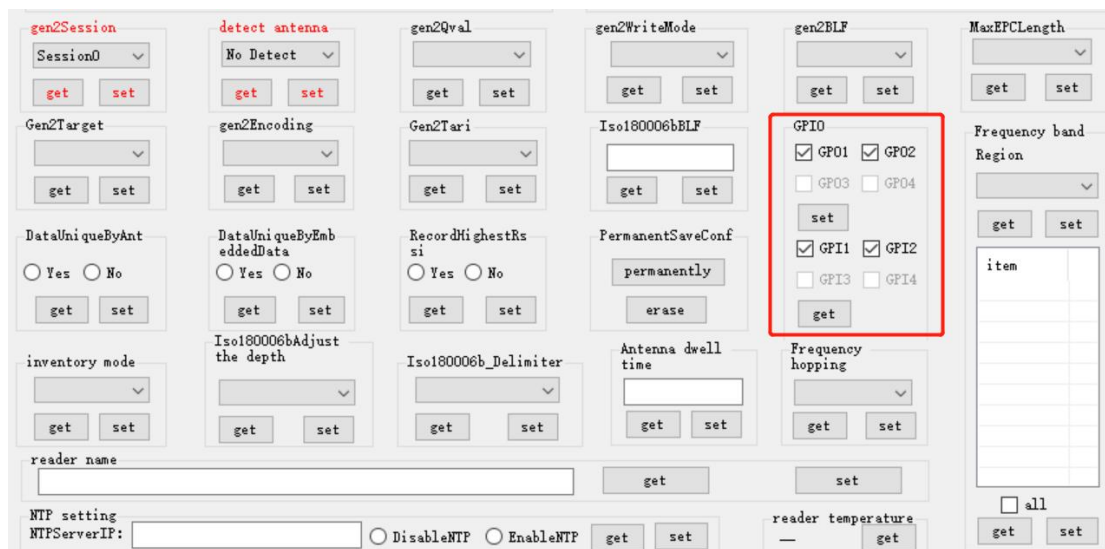


Relay terminal drives GPO port output

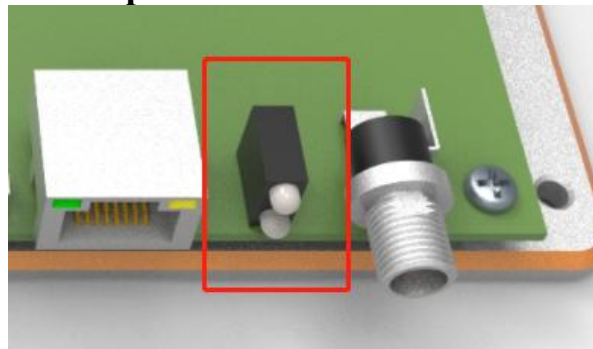


The internal power supply of the device is connected to the PNP photoelectric sensor

The GPIO test can be implemented by the DEMO program “ModuleReaderManager.exe”. After establishing communication with the module according to the above steps, click the parameter setting, and then the following interface will appear, as shown in the red box, you can set the status of GPO and obtain the status of GPIN. You can check whether the status has changed by setting the “gpo” or triggering the “gpi” external device. If the GPIO port is not needed, the GPIO pin can be left floating.



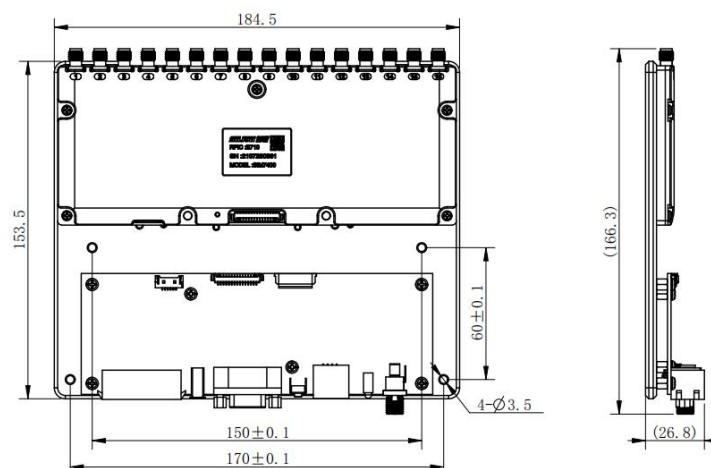
3.3 Indicate light description



Red indicate light: Status light. After 5 seconds of power-on, the red light will be on continuously, indicating that the RF module is successfully connected to the baseboard. If the red light is blinking, it means that the RF module is not connected to the backplane.

Green indicate light: Power light, after power on, the green light will light.

3.4 Dimension (Unit: mm)



4、 Introduction for use

4.1 IP reset

When you forget the set ip, you can press and hold the reset button for 3s in the power-on state to reset the ip. The reset ip is 192.168.1.100. After IP reset, the network parameters are as follows:

IP address: 192.168.1.100

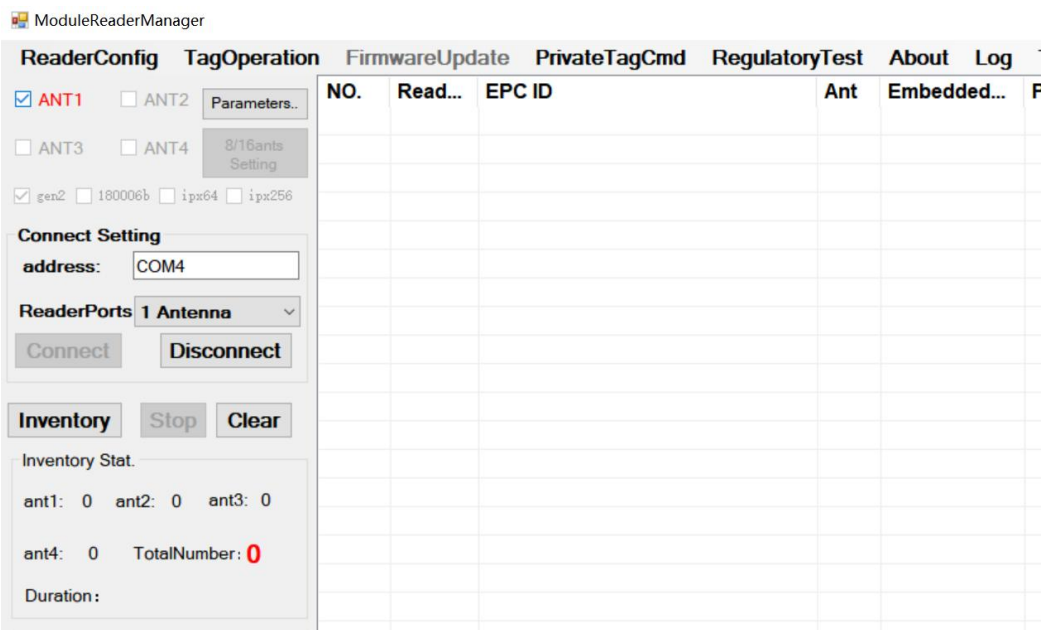
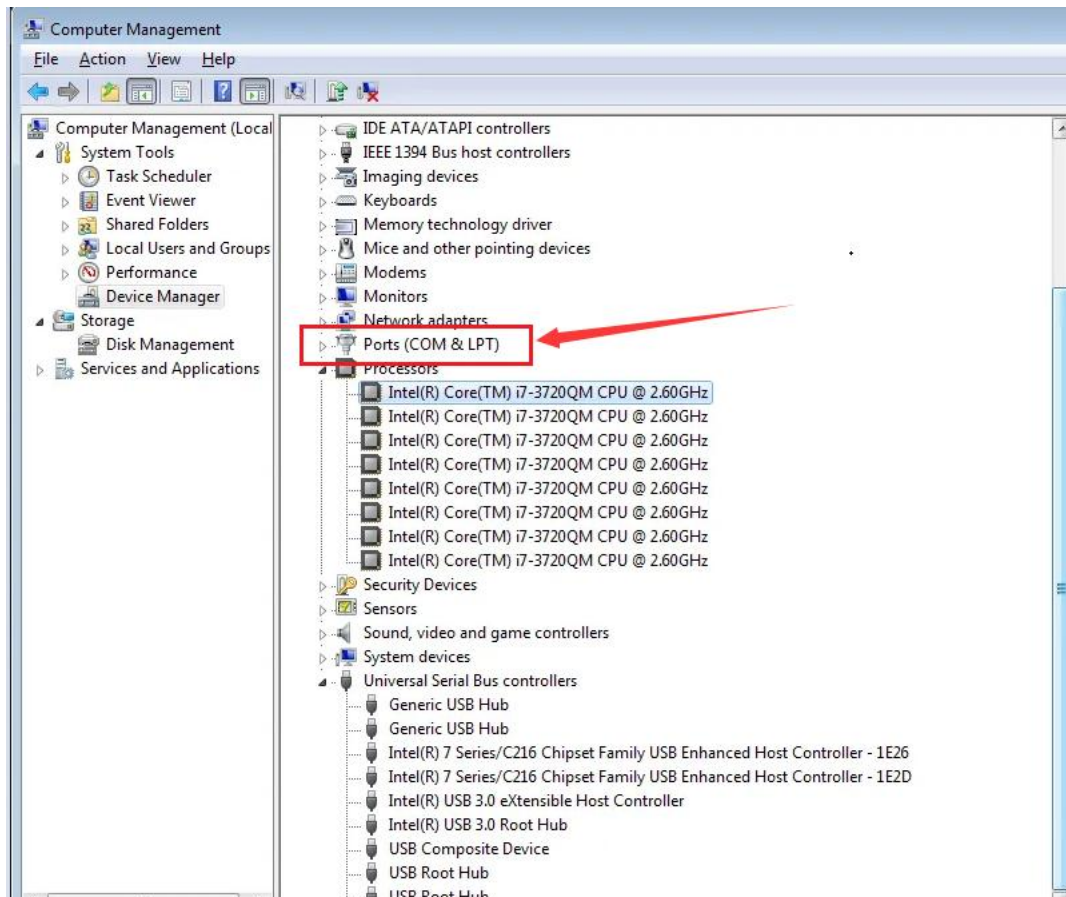
subnet mask: 255.255.255.0

gateway:192.168.1.1

4.2 Demonstration DEMO connection

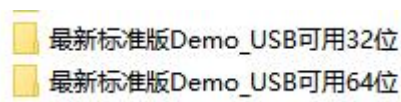
4.2.1 RS232 communication

Select RS232 serial port communication, connect the communication interface, and power on the board. The upper computer and the interface board can be connected through a male and a female serial port straight-through extension cable. Open test DEMO program ModuleReaderManager.exe. Fill in the corresponding serial port number. Select the corresponding number of antenna ports to connect (reference the number of antenna ports of the RF module connected to the board, for example, SIM7100 has one antenna port, select single antenna, SIM7200 has four antenna ports, select four antennas, SIM7300 has eight antenna ports, select eight antennas). After connecting, can test related modules. For details, refer to the DEMO program operation instructions.



4.2.2 USB communication

After selecting USB to connect to the communication interface, power on the board. First, need to select a DEMO that matches the operating system of the computer (except win10 and win11) to connect. (64-bit and 32-bit)

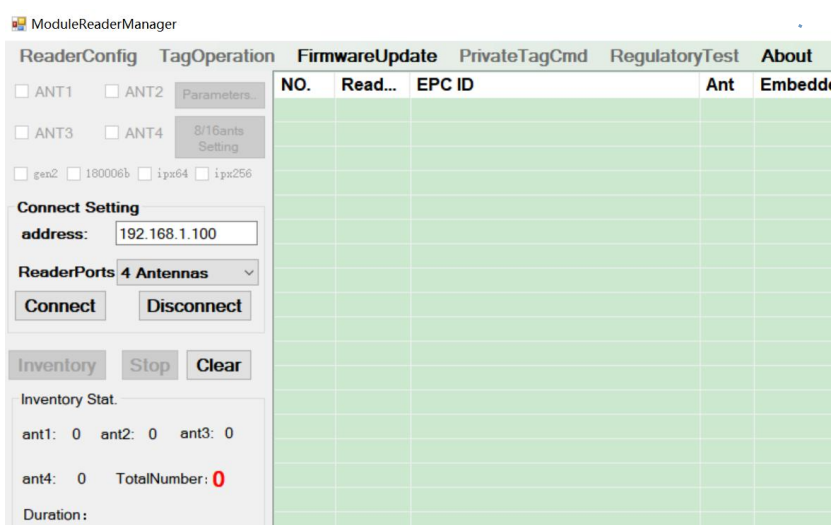
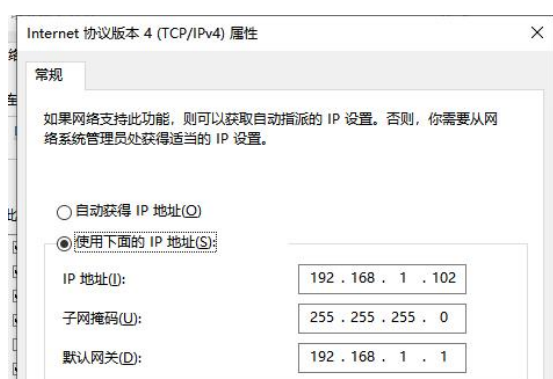


After connect to computer, will be automatically recognized as an "HDSC" device Open test DEMO program "ModuleReaderManager.exe". Fill in "USB" in "connect address", then click to connect. After connecting, can test related modules. For details, refer to the DEMO program operation instructions.



4.2.3 Net port communication

In the network port connection, the default address of the reader is 192.168.1.100, the default gateway is 192.168.1.254, and the subnet mask is 255.255.255.0. The IP address of the computer connected to the reader must be the same as the IP address of the reader, as below picture; after setting the computer IP address correctly, you can connect after ensuring that the network is smooth. Open test DEMO program "ModuleReaderManager.exe". After selecting the corresponding IP address on the connection address, then click the connect. After connecting, can test related modules. For details, refer to the DEMO program operation instructions.



4.2.4 WiFi Connection

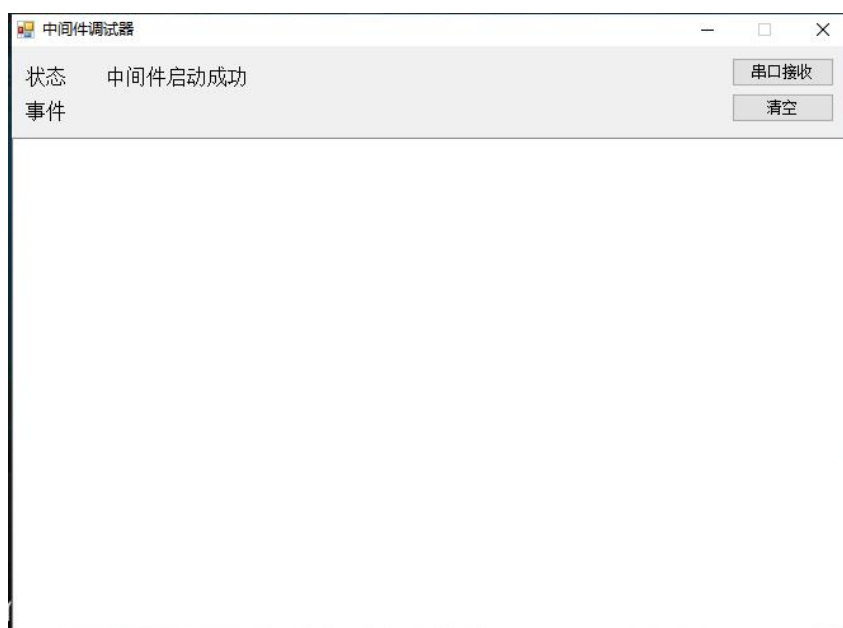
AP mode: After the reader is initialized, the computer can search for a "UHF-Reader" signal. The host computer can be connected directly without a password.

After connecting to the AP hotspot, you can directly open DOME for testing. At this time, the default IP of the device is 10.0.0.1.

Please refer to the DEMO program operating instructions for details.



STA mode: First connect the reader and computer with a network cable. Open the middleware 'MiddlewareCore.exe' to enter the configuration page. Start directly.



After the middleware is started successfully, enter '127.0.0.1:10090' on the browser to enter the configuration page.

Then click "Static Parameter Settings" on the left, enter "192.168.1.100" in the reader IP column, and click Get.

Here you can see the static parameters and WiFi parameters of the device. Change the working mode of the wireless network settings to STA mode and fill in the configuration information related to the respective LAN as needed. It is recommended to directly assign a static IP to quickly associate the device.

After filling in the parameters, click Settings and then power on and off again. Connect to the selected WIFI hotspot. At this time, you can connect to WIFI "SILION-306".

无线网设置	工作模式	STA模式
	DHCP	☐ 启用
	IP	192.168.31.103
	子网掩码	255.255.255.0
	网关	192.168.31.1
	DNS	192.168.31.1
	MAC地址	9CA525E2DAB6
	SSID	SILION-306
	密码	moduleinside

Change the device's IP to '192.168.31.103'. Same frequency band as LAN.

Then open DEMO "ReaderManager.exe" to test.

At this time, enter the IP address as '192.168.31.103'.

连接设备

连接设置

IP地址/串口号	192.168.31.103	✕
设备类型	4天线	▼
 		

4.2.5 4G Network HTTP Communication

First, connect the device and computer with a network cable. Secondly, open the middleware MiddlewareCore.exe to enter the configuration page. Start directly.



After the middleware is started successfully, enter 127.0.0.1:10090 on the browser to enter the configuration page.

Then, click "Run Parameter Settings" on the left, enter "192.168.1.100" in the reader IP column, and click Get.

Then, select "4G" for the hardware interface and "http" for the software protocol.

Fill in the HTTP parameters with "http://222.128.15.242:12345/reader". This path is the IP created by our company and does not need to be modified.

After the settings are completed, click "Set".

读写器IP	192.168.1.100		获取	设置
数据上传选项	数据整理周期	2000		
	硬件接口	4G		
	软件协议	HTTP		
	HTTP参数	上传URL	http://222.128.15.242:12345/reader	

Add a VPN connection to accept data from the server.

VPN account information:

Address: 222.128.15.242

Username: slweihu

Password: slweihu

After the configuration is complete, connect to the VPN and find it in the network connection list.



Start the http receiving tool "tag_server" to view the received data information.

```

E:\04_测试demo\tag_web_server\tag_server_20230415.exe
{
  ep: 'E2003031251001600730C945E2003031251001600730C945E2003031251001600730C945E2003031251001600730C945',
  bd: '',
  at: 1,
  rc: 6
}
]
}
{
  reader_name: 'FCFF84726259',
  event_type: 'tag_read',
  event_data: [
    { ep: '2639', bd: '', at: 1, rc: 8 },
    { ep: 'E2003031251000800730C805', bd: '', at: 1, rc: 8 },
    { ep: 'ABCDEF00000000000000000021', bd: '', at: 1, rc: 8 },
    { ep: '2638', bd: '', at: 1, rc: 8 },
    { ep: '1000100000000000000000000000', bd: '', at: 1, rc: 8 },
    { ep: '2636', bd: '', at: 1, rc: 8 },
    { ep: '2637', bd: '', at: 1, rc: 8 },
    { ep: 'E2003031251001100730C87D', bd: '', at: 1, rc: 8 },
    { ep: 'E2003031251001040730C865', bd: '', at: 1, rc: 4 },
    { ep: 'E2003031251001600730C945E2003031251001600730C945E2003031251001600730C945E2003031251001600730C945',
      bd: '',
      at: 1,
      rc: 4
    }
  ]
}
]
}

```

4.2.6 RS485 Connection

Here we use the RS485 to RS232 converter demonstration. First, connect the development board and RS485 converter according to the RS485 wiring method.

First connect the reader and computer with a network cable.

Open the middleware MiddlewareCore.exe to enter the configuration page. Start directly.

After the middleware is started successfully, enter 127.0.0.1:10090 on the browser to enter the configuration page. Then click "Static Parameter Configuration" on the left, enter "192.168.1.100" in the reader IP column, and click Get.

Here you can see the static parameters of the device.

Click Advanced Parameters to see the parameters of RS485.

The baud rate can also be modified. Range: 19200-230400bps. Default is 115200bps.

串口2参数	串口类型	RS485
	Modbus地址	2
	波特率	115200
	数据位	8
	停止位	1
	校验	无校验

After modifying the parameters, restart the device and connect on DEMO.

Please refer to the DEMO program operating instructions for details.

连接设备

连接设置

IP地址/串口号	com9
设备类型	4天线
 	