

V1. 0. 0

修改日志:

版本号	修改日期	修改描述
V1.0.0	2020/04/23	初稿

1. 硬件连接说明



- ① 网口,连接网线
- ② USB 电源口,连接电源
- ③ LoRa 接收天线
- ④ LoRa 发送天线
- 2. 获取树莓派 IP 地址

完成硬件连接后,打开如下图软件:



打开后会弹出如下界面:

文表内寺・Advanced IP Scanner 2.5安装育号 指明是姿安装 Advanced IP Scanner 2.5 还是只	是运行。	ā	
选择操作:			
○ 安装(I) 將安裝程序。若娶访问高级设置,请选中"高级	设置"框。		
<ul> <li>运行(R) 运行便根版本(元需安装)。</li> </ul>			
■ 本码设备(1)			
- NX K = 12/			
	运行 ( <u>R</u> )	取消 ( <u>c</u> )	

### 选择运行,点击运行。

Revenued IP Scanner	-	×
192.168.0.1-254         例如: 192.168.0.1-100, 192.168.0.200         搜索		2
结果 收藏夹		
状态         名称         ÎP         制造商         MAC 地址         备注		

配置需要扫描的 IP 地址范围, 一般从本地路由器地址开始扫描。配置完成后,

点击扫描。

7	🧟 Advanced IP Scanner								
文件	文件(F) 查看(M) 设置(S) 帮助(H)								
	停止								
192	2.168.0.1-2	54							
结!	果 收藏共	E							
	状态	名称	ÎP	制造商	MAC 地址 备注				
-	<b>—</b>	192.168.0.160	192.168.0.160		A8:9C:ED:40:71:3F				
	Ē.	192.168.0.162	192.168.0.162	Elitegroup Comput	F4:4D:30:10:26:54				
		192.168.0.163	192.168.0.163	MEIZU Technology	90:F0:52:A7:DA:A5				
	<b>—</b>	FTIGNK5XZTBFAHJ	192.168.0.164	ASUSTek COMPUT	08:60:6E:72:0B:B5				
	<b>—</b>	JACKMACBOOK-AIR	192.168.0.166	REALTEK SEMICO	00:E0:4C:68:0D:53				
>	<b>—</b>	TEST07	192.168.0.168	MICRO-STAR INT'L	00:24:21:E0:B7:7F				
	<b>—</b>	192.168.0.169	192.168.0.169	VMware, Inc.	00:0C:29:D7:5F:0B				
	<b>—</b>	XZ01	192.168.0.172	LiteON	6C:4B:90:20:E1:64				
>	<b>—</b>	192.168.0.173	192.168.0.173	Texas Instruments	04:79:B7:97:29:30				
	<b>—</b>	192.168.0.177	192.168.0.177	Micro-Star INT'L C	6C:62:6D:0E:98:0E				
	<b>—</b>	192.168.0.187	192.168.0.187	HUAWEI TECHNOL	88:E3:AB:15:3E:54				
	<b>—</b>	192.168.0.189	192.168.0.189		96:73:6A:DB:1B:03				
	<b>—</b>	192.168.0.190	192.168.0.190	Raspberry Pi Foun	B8:27:EB:1B:A5:BD				
	<b>—</b>	THTFCOMPUTER	192.168.0.191	PEGATRON CORP	70:71:BC:58:89:9E				
	<b>—</b>	192.168.0.197	192.168.0.197	Elitegroup Comput	F4:4D:30:7B:C9:64				
	<b>—</b>	192.168.0.198	192.168.0.198	SHENZHEN BILIAN	0C:8C:24:A6:71:B9				
	<b>—</b>	192.168.0.199	192.168.0.199	Apple, Inc.	70:EC:E4:50:74:ED				
	<b>—</b>	192.168.0.201	192.168.0.201		5A:0D:40:2B:0F:43				
	<b>.</b>	192.168.0.203	192.168.0.203	Raspberry Pi Foun	B8:27:EB:ED:06:8E				

制造厂商为 Raspberry 开头的即为树莓派 IP 地址,且状态显示为彩色。

3. 使用 putty 登录树莓派后台

打开 PUTTY 软件,如下图:

Session       Basic options for your PuTTY session         Logging       Specify the destination you want to connect to         Keyboard       Host Name (or IP address)         Bell       Features         Window       Appearance         Behaviour       Raw         Translation       Selection         Connection       Default Settings         Default Settings       Load         Strings       Load         Strings       Delete         Close window on exit:       Close window on exit:	ategory:			~
○ Always ○ Never (●) Only on clean exit	<ul> <li>Session</li> <li>Logging</li> <li>Teminal</li> <li>Keyboard</li> <li>Bell</li> <li>Features</li> <li>Window</li> <li>Appearance</li> <li>Behaviour</li> <li>Translation</li> <li>Selection</li> <li>Colours</li> <li>Connection</li> <li>Data</li> <li>Proxy</li> <li>Telnet</li> <li>Rlogin</li> <li>SSH</li> <li>Serial</li> </ul>	Basic options for your PuTTY se Specify the destination you want to conner Host Name (or IP address) 192.168.0.203 Connection type: O Raw O Telnet O Rlogin O SSH Load, save or delete a stored session Saved Sessions Default Settings Close window on exit: Always O Never O Only on c	ssion ct to Port 22 1 () Se 1 () Se 1 () Se 2 () Seve 1 () Seve 1 () Seve 2 () Seve 1 () Seve 2 ()	rial e

输入树莓派 IP 地址,选择 ssh,点击 open 后,弹出如下内容,选择"是"选

项。

PuTTY Se	curity Alert		×
	The server's host key is not cached have no guarantee that the server think it is. The server's ssh-ed25519 key finge ssh-ed25519 255 c6:85:db:23:2a:05 If you trust this host, hit Yes to add PUTTY's cache and carry on connecting adding the key to the cache, hit N If you do not trust this host, hit Ca connection.	l in the registry. is the computer rprint is: ab:21:c0:74:11:0 d the key to ecting. j just once, with o. ncel to abandon	You you e:3d:49:1f:19 out o the
	是(Y) 否(N)	取消	帮助

连接成功后输入树莓派用户名和密码。

用户名: rlwl

密码: 123456

如下图所示:

ı rlwl@raspberrypi: ~	-		×
률 login as: rlwl 물 rlwl@192.168.0.203's password: Linux raspberrypi 4.19.75-v7+ ‡1270 SMP Tue Sep 24 18:45:11 BST 2	019 ai	rmv71	^
The programs included with the Debian GNU/Linux system are free s the exact distribution terms for each program are described in th individual files in /usr/share/doc/*/copyright.	oftwai ie		
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law. Last login: Fri Jan 8 06:43:22 2021 from 192.168.0.44 rlwl@raspberrypi:~ 0			

进入 M302 目录



#### 运行程序



运行成功时会打印如下内容:

₽ rlwl@raspberrypi: ~/M302	$\times$
INFO: Reference latitude is configured to 0.000000 deg	
INFO: Reference longitude is configured to 0.000000 deg	
INFO: Reference altitude is configured to 0 meters	
INFO: Beaconing period is configured to 0 seconds	
INFO: Beaconing signal will be emitted at 869525000 Hz	
INFO: Beaconing datarate is set to SF9	
INFO: Beaconing modulation bandwidth is set to 125000Hz	
INFO: Beaconing TX power is set to 14dBm	
INFO: Beaconing information descriptor is set to 0	
INFO: global_conf.json does contain a JSON object named debug_conf, parsing de	ebu
g parameters	
INFO: got 2 debug reference payload	
INFO: reference payload ID 0 is 0xCAFE1234	
INFO: reference payload ID 1 is 0xCAFE2345	
INFO: setting debug log file name to loragw_hal.log	
WARNING: [main] impossible to open /dev/ttyS0 for GPS sync (check permissions)	
CoreCell reset through GPI023	
CoreCell power enable through GPIO18	
INFO: Configuring SX1250_0 in single input mode	
INFO: Configuring SX1250_1 in single input mode	
INFO: [main] concentrator started, packet can now be received	
INFO: concentrator EUI: 0x0016c001ff10322d	
INFO: [down] PULL_ACK received in 43 ms	

此时 M302 即可接收终端数据,接收到数据时如下:



关于如何配置 M302 接收频率等内容请参考 Sx1302LinuxDriver 目录下的

readme.md 。