Vidit 无线测试

1. 硬件

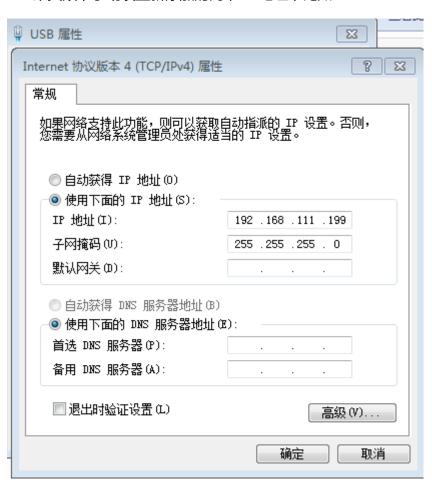
Hachi 测试样机

Windows 7 PC

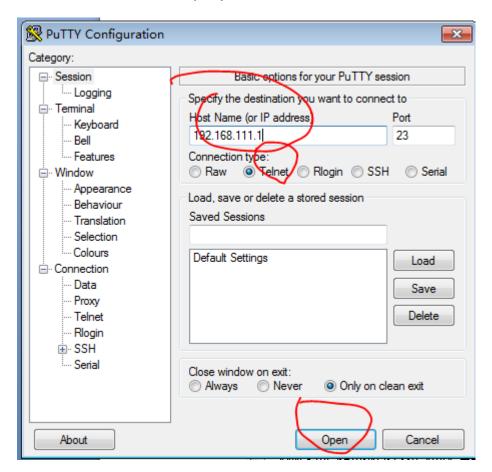
USB cable 一根

2. 连接

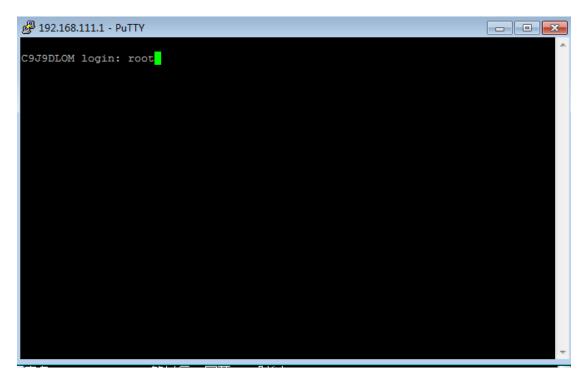
● Vidit 样机开机后,通过 USB cable 连接到 Window7 PC,发现未知设备后手动安装 USB 目录下的 linux.inf 文件。设备安装成功后,等待 DHCP 分配 IP,如果失败,手动设置新添加的网卡 IP 地址,比如 192.168.111.199,如下图:



● 网络安装成功后,运行 putty.exe



● 输入 root,回车登录



3. 系统的重启/关机/升级

- 命令行重启: 在登录后输入 agsh reboot
- 命令行关机:在登录后输入 agsh poweroff
- 按键强制关机:按住机器开机键超过16s,灯熄灭关机
- 系统开机:长按开机键开机,灯亮放手
- 系统升级:
 - a) 关机
 - b) 拔下 TF 卡,用读卡器复制*.tsf 文件到 TF 卡根目录
 - c) 插入TF卡
 - d) 开机,系统会自动升级,屏幕上会有一些显示,系统会在升级完成时自动重启。等5分钟左右就可以了。
- 4. 蓝牙(BT)测试 (蓝牙测试须在 Wifi 测试之前跑,或者 wifi 测试之后从重启再跑)

BT 初始化: bt_init

```
₱ 192.168.111.1 - PuTTY

                                                                       - - X
Bluetooth: Core ver 2.18
NET: Registered protocol family 31
Bluetooth: HCI device and connection manager initialized
Bluetooth: HCI socket layer initialized
Bluetooth: L2CAP socket layer initialized
Bluetooth: SCO socket layer initialized
(stc): chnl_id list empty :4
(stk) : st kim start
(stk) :ldisc_install = 1
(stc): st_tty_open
(stk) :line discipline installed
(stk) :ti-connectivity/TIInit 12.8.32.bts
(stk) :change remote baud rate command in firmware
(stk) :skipping the wait event of change remote baud
(stc): add_channel_to_table: id 4
(stc): add_channel_to_table: id 2
(stc): add_channel_to_table: id 3
```

BT 测试命令: bt_test frequency[2402-2480],例如:

bt_test 2402

```
- - X
192.168.111.1 - PuTTY
 # bt_test 2402
/usr/bin/bt_test 2402
< HCI Command: ogf 0x3f, ocf 0x0301, plen 6
 44 40 01 20 10 00
HCI Event: 0x0e plen 4
 01 01 FF 00
C HCI Command: ogf 0x3f, ocf 0x0301, plen 6
 HCI Event: 0x0e plen 4
 01 01 FF 00
< HCI Command: ogf 0x3f, ocf 0x01fb, plen 7
01 FF 00 00 00 00 01
> HCI Event: 0x0e plen 4
 01 FB FD 00
< HCI Command: ogf 0x3f, ocf 0x01ca, plen 13
62 09 01 00 07 00 00 00 00 00 00 00 00
  HCI Event: 0x0e plen 4
 01_CA FD 00
```

5. Wifi 测试命令

• Wifi <rate> table:

11b	11g	11n
0 = 1.0 Mbps	4 = 6.0 Mbps	12 = 6.5 Mbps (MCS0)
1 = 2.0 Mbps	5 = 9.0 Mbps	13 = 13.0 Mbps (MCS1)
2 = 5.0 Mbps	6 = 12.0 Mbps	14 = 19.5 Mbps (MCS2)
3 = 11.0 Mbps	7 = 18.0 Mbps	15 = 26.0 Mbps (MCS3)
	8 = 24.0 Mbps	16 = 39.0 Mbps (MCS4)
	9 = 36.0 Mbps	17 = 52.0 Mbps (MCS5)
	10 = 48.0 Mbps	18 = 58.5 Mbps (MCS6)
	11 = 54.0 Mbps	19 = 65.0 Mbps (MCS7)

硬件支持 b/g/n 模式。

Wifi 初始化:wifi_init

```
192.168.111.1 - PuTTY
                                                                      # wifi init
wl12xx sdio power on ambarella
mmc1: card claims to support voltages below the defined range. These will be ign
mmc1: queuing unknown CIS tuple 0x91 (3 bytes)
mmc1: new high speed SDIO card at address 0001
ambarella_gpio_irq_set_wake: irq[140] = girq[76] = 1
wl12xx sdio power on ambarella
wlcore: wl18xx HW: 187x, PG 2.2 (ROM 0x11)
wl12xx_sdio_power_off_ambarella
wlcore: loaded
wlcore: driver version: ol r8.a9.14
wlcore: compilation time: Sat Dec 13 15:16:01 2014
wlcore: power up
wl12xx_sdio_power_on_ambarella
wlcore: PHY firmware version: Rev 8.2.0.0.218
wlcore: firmware booted in PLT mode PLT_ON (Rev 8.9.0.0.24)
```

Wifi 测试 11b: wifi_test11b channel[1-14] rate[0-3],例如:

wifi test11b 1 3

Wifi 测试 11g: wifi_test11g channel[1-14] rate[4-11],例如:

wifi_test11g 1 11

Wifi 测试 11n: wifi_test11n channel[1-14] rate[12-19],例如:

wifi_test11n 1 19

Wifi 测试 11n 40M upper: wifi_test11n_40_upper channel[5-13] rate[12-19],例如:
wifi_test11n_40_upper 7 19

Wifi 测试 11n 40M lower: wifi_test11n_40_lower channel[1-9] rate[12-19],例如:

wifi_test11n_40_lower 7 19