

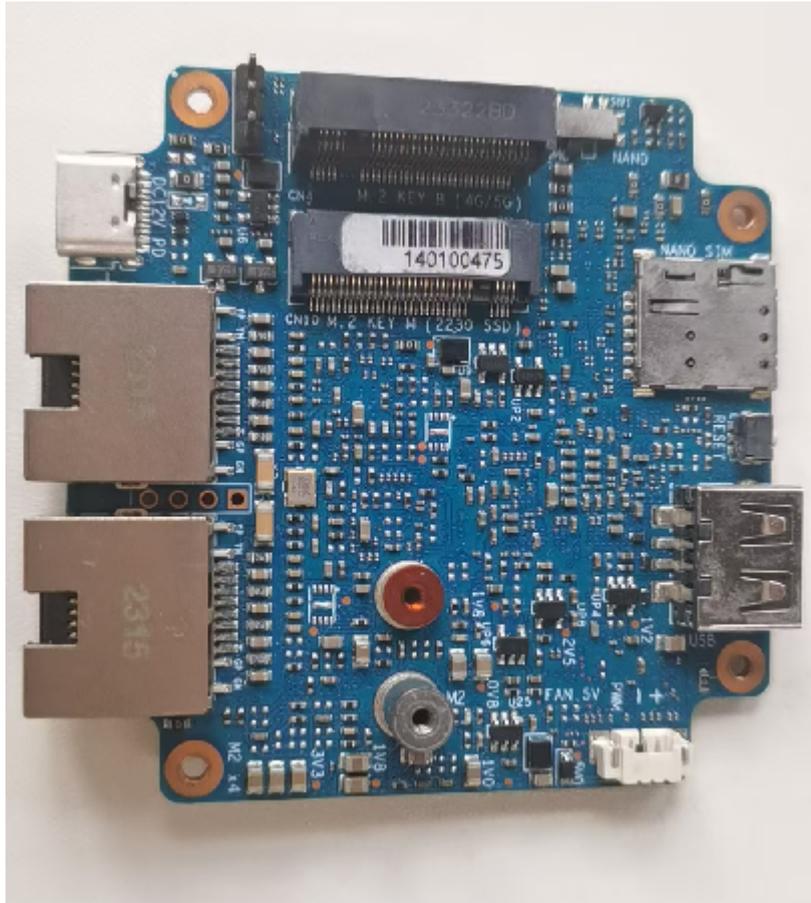
R3mini 5G模块测试

■ 状态	hyf进行中
■ 团队	

客户板



测试对比板



第一次测试

客户板5G模块识别测试



第一次上电
无法识别

```
BusyBox v1.36.1 (2025-07-16 10:40:01 UTC) built-in shell (ash)
```



```
-----  
ImmortalWrt 24.10-SNAPSHOT, r33348-1934579b25  
-----
```

```
=== WARNING! =====  
There is no root password defined on this device!  
Use the "passwd" command to set up a new password  
in order to prevent unauthorized SSH logins.  
-----
```

```
root@ImmortalWrt:~#  
root@ImmortalWrt:~# lsusb  
Bus 001 Device 001: ID 1d6b:0002 Linux 6.6.95 xhci-hcd xHCI Host Controller  
Bus 002 Device 001: ID 1d6b:0003 Linux 6.6.95 xhci-hcd xHCI Host Controller  
root@ImmortalWrt:~# ls /dev  
autofs          loop-control    mmcblk0p128     port            ubi0_0  
btrfs-control  loop0           mmcblk0p2       ppp             ubi0_1  
bus             loop1           mmcblk0p3       ptmx           ubi0_2  
conninfra_dev  loop2           mmcblk0p4       pts            ubi0_3  
console        loop3           mmcblk0p5       random         ubi0_4  
fd             loop4           mmcblk0rpmb     shm            ubi0_5  
fit0           loop5           mtd0            stderr         ubi_ctrl  
fitrw         loop6           mtd0ro         stdin          ubi_block0_4  
full          loop7           mtd1            stdout         urandom  
gpiochip0     mem            mtd1ro         tty            watchdog  
hwrng         mmcblk0        mtdblock0      ttyS0         watchdog0  
i2c-0         mmcblk0boot0  mtdblock1      ttyS1         zero  
kmsg          mmcblk0boot1  net            ttyS2  
log           mmcblk0p1     null           ubi0
```

第二次上电

识别成功

```
BusyBox v1.36.1 (2025-07-16 10:40:01 UTC) built-in shell (ash)
```



```
-----  
ImmortalWrt 24.10-SNAPSHOT, r33348-1934579b25  
-----
```

```
=== WARNING! =====  
There is no root password defined on this device!  
Use the "passwd" command to set up a new password  
in order to prevent unauthorized SSH logins.  
-----
```

```
root@ImmortalWrt:~#
```

```
root@ImmortalWrt:~# [ 60.455235] overlay: filesystem on /opt/docker/check-overlays-support149332
```

```
root@ImmortalWrt:~# ls /dev
```

autofs	loop-control	mmcblk0p2	ptmx	ubi0
btrfs-control	loop0	mmcblk0p3	pts	ubi0_0
bus	loop1	mmcblk0p4	random	ubi0_1
cdc-wdm0	loop2	mmcblk0p5	shm	ubi0_2
conninfra_dev	loop3	mmcblk0rmb	stderr	ubi0_3
console	loop4	mtd0	stdin	ubi0_4
fd	loop5	mtd0ro	stdout	ubi0_5
fit0	loop6	mtd1	tty	ubi_ctrl
fitrw	loop7	mtd1ro	ttyS0	ubiblock_4
full	mem	mtdblock0	ttyS1	urandom
gpiochip0	mmcblk0	mtdblock1	ttyS2	watchdog
hwrng	mmcblk0boot0	net	ttyUSB0	watchdog0
i2c-0	mmcblk0boot1	null	ttyUSB1	zero
kmsg	mmcblk0p1	port	ttyUSB2	
log	mmcblk0p128	ppp	ttyUSB3	

```
root@ImmortalWrt:~# lsusb
```

```
Bus 001 Device 001: ID 1d6b:0002 Linux 6.6.95 xhci-hcd xHCI Host Controller
```

```
Bus 002 Device 001: ID 1d6b:0003 Linux 6.6.95 xhci-hcd xHCI Host Controller
```

```
Bus 002 Device 002: ID 2c7c:0801 Quectel RM520N-GL
```

```
root@ImmortalWrt:~#
```

对比板5G模块识别测试



识别成功

```
root@OpenWrt:/#  
root@OpenWrt:/# [ 77.000075] net wwan0: ul_data_aggregation_max_datagrams=11,  
lsusb  
Bus 001 Device 001: ID 1d6b:0002 Linux 5.4.171 xhci-hcd xHCI Host Controller  
Bus 002 Device 002: ID 2c7c:0801 Quectel RM520N-GL  
Bus 002 Device 001: ID 1d6b:0003 Linux 5.4.171 xhci-hcd xHCI Host Controller  
root@OpenWrt:/# ls /dev  
autofs          mem             mtd3            mtddblock6  
bus             mmcblk0        mtd3ro         mtddblock7  
cdc-wdm0        mmcblk0boot0  mtd4           mtddblock8  
conninfra_dev  mmcblk0boot1  mtd4ro        mtddblock9  
console         mmcblk0p1     mtd5          null  
cpu_dma_latency mmcblk0p2     mtd5ro       port  
full           mmcblk0p3     mtd6         ppp  
gpiochip0      mmcblk0p4     mtd6ro       ptmx  
hwrng          mmcblk0p5     mtd7         pts  
i2c-0         mmcblk0p6     mtd7ro      random  
iio:device0    mmcblk0rpmb   mtd8         shm  
kmsg           mtd0          mtd8ro       tty  
log            mtd0ro       mtd9         ttyS0  
loop-control   mtd1         mtd9ro       ttyS1  
loop0          mtd10        mtddblock0   ttyS2  
loop1          mtd10ro      mtddblock1   ttyUSB0  
loop2          mtd11        mtddblock10  ttyUSB1  
loop3          mtd11ro     mtddblock11  ubi_ctrl  
loop4          mtd12        mtddblock12  urandom  
loop5          mtd12ro     mtddblock2   vhc i  
loop6          mtd1ro       mtddblock3   watchdog  
loop7          mtd2         mtddblock4   watchdog0  
mapper         mtd2ro      mtddblock5   zero  
root@OpenWrt:/#
```

第二次测试

对比板5G模块识别测试

第一次上电

未识别模块


```
BusyBox v1.36.1 (2025-07-16 10:40:01 UTC) built-in shell (ash)

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  BE FREE AND UNAFRAID

-----
ImmortalWrt 24.10-SNAPSHOT, r33348-1934579b25
-----
=== WARNING! =====
There is no root password defined on this device!
Use the "passwd" command to set up a new password
in order to prevent unauthorized SSH logins.
-----
root@ImmortalWrt:~#
root@ImmortalWrt:~# lsusb
Bus 001 Device 001: ID 1d6b:0002 Linux 6.6.95 xhci-hcd xHCI Host Controller
Bus 002 Device 001: ID 1d6b:0003 Linux 6.6.95 xhci-hcd xHCI Host Controller
Bus 002 Device 002: ID 2c7c:0801 Quectel RM520N-GL
root@ImmortalWrt:~# ls /dev
autofs          loop-control    mmcblk0p2       ptmx            ubi0
btrfs-control  loop0           mmcblk0p3       pts            ubi0_0
bus             loop1           mmcblk0p4       random         ubi0_1
cdc-wdm0       loop2           mmcblk0p5       shm            ubi0_2
conninfra_dev  loop3           mmcblk0rpmb     stderr         ubi0_3
console        loop4           mtd0            stdin          ubi0_4
fd             loop5           mtd0ro          stdout         ubi0_5
fit0           loop6           mtd1            tty            ubi_ctrl
fitrw          loop7           mtd1ro          ttyS0          ubiblock0_4
full           mem             mtdblock0       ttyS1          urandom
gpiochip0      mmcblk0         mtdblock1       ttyS2          watchdog
hwrng          mmcblk0boot0   net             ttyUSB0        watchdog0
i2c-0          mmcblk0boot1   null            ttyUSB1        zero
kmsg           mmcblk0p1      port            ttyUSB2
log            mmcblk0p128    ppp             ttyUSB3
root@ImmortalWrt:~#
```

第三次测试

不使用客户的RM520N模块进行测试，使用公司RM520N模块测试。

客户板5G模块识别测试

识别成功

```
BusyBox v1.36.1 (2025-07-16 10:40:01 UTC) built-in shell (ash)
```



```
-----  
ImmortalWrt 24.10-SNAPSHOT, r33348-1934579b25  
-----
```

```
==== WARNING! =====  
There is no root password defined on this device!  
Use the "passwd" command to set up a new password  
in order to prevent unauthorized SSH logins.  
-----
```

```
root@ImmortalWrt:~# ls [ 60.413366] overlay: filesystem on /opt/docker/check-overlays-support2
```

```
root@ImmortalWrt:~# lsusb
```

```
Bus 001 Device 001: ID 1d6b:0002 Linux 6.6.95 xhci-hcd xHCI Host Controller
```

```
Bus 002 Device 001: ID 1d6b:0003 Linux 6.6.95 xhci-hcd xHCI Host Controller
```

```
Bus 002 Device 002: ID 2c7c:0801 Quectel RM520N-GL
```

```
root@ImmortalWrt:~# ls /dev
```

autofs	loop-control	mmcblk0p2	ptmx	ubi0
btrfs-control	loop0	mmcblk0p3	pts	ubi0_0
bus	loop1	mmcblk0p4	random	ubi0_1
cdc-wdm0	loop2	mmcblk0p5	shm	ubi0_2
conninfra_dev	loop3	mmcblk0rpmb	stderr	ubi0_3
console	loop4	mtd0	stdin	ubi0_4
fd	loop5	mtd0ro	stdout	ubi0_5
fit0	loop6	mtd1	tty	ubi_ctrl
fitrw	loop7	mtd1ro	ttyS0	ubiblock0_4
full	mem	mtdblock0	ttyS1	urandom
gpiochip0	mmcblk0	mtdblock1	ttyS2	watchdog
hwrng	mmcblk0boot0	net	ttyUSB0	watchdog0
i2c-0	mmcblk0boot1	null	ttyUSB1	zero
kmsg	mmcblk0p1	port	ttyUSB2	
log	mmcblk0p128	ppp	ttyUSB3	

```
root@ImmortalWrt:~# █
```

对比板5G模块识别测试

