

N720 OpenLinux OTG Commissioning Guide

Version 1.0



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Notice

This document provides guide for users to use the N720 OpenLinux.

This document is intended for system engineers (SEs), development engineers, and test engineers.

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1 Overview

This document guides users how to commission the OTG function of N720_OpenLinux.

2 Build Circuits

Refer to *Neoway_N720_OpenLinux OTG Reference Circuit.pdf* to build the OTG commissioning circuit.

3 Software Commissioning

3.1 Commissioning UART

The USB port will be occupied when commissioning the OTG functions. Therefore, developers need to commission UART.

Step 1 Pull **inittab** out from the system.

```
C:\Users\Leatricw>adb pull /etc/inittab d:/
27 KB/s (1286 bytes in 0.046s)
```

Step 2 Modify the **inittab** file.

```
inittab
31
32 10:0:wait:/etc/init.d/rc 0
33 11:1:wait:/etc/init.d/rc 1
34 12:2:wait:/etc/init.d/rc 2
35 13:3:wait:/etc/init.d/rc 3
36 14:4:wait:/etc/init.d/rc 4
37 15:5:wait:/etc/init.d/rc 5
38 16:6:wait:/etc/init.d/rc 6
39
40 # Normally not reached, but fallthrough in case of emergency.
41 z6:6:respawn:/sbin/sulogin
42
43 #runs reboot daemon
44 #rb:5:respawn:/sbin/reboot-daemon
45
46 # Clean up any session file from a previous boot before starting mbimd
47 m1:5:wait:rm -f /var/run/qbi_session_active
48 m2:5:respawn:/usr/bin/mbimd
49
50 S:2345:respawn:/sbin/getty -L ttyHSL0 115200 console
```

Step 3 Import the **inittab** file into the system again.

```
C:\Users\Leatricw>adb push D:\inittab /etc
4 KB/s (1338 bytes in 0.312s)
```

Step 4 UART login system (User: root; password: oelinux123)

```

sscom4.2测试版,作者:聂小猛(丁丁),Email:mcu52@163.com,2007/9
root
Password:
No directory, logging in with HOME=/
root@mdm9607-perf:/# ls -l
total 8
drwxrwx--- 3 www-data www-data    224 Jul 21 2017 -[1;34mWEBSERVER+[0m
drwxr-xr-x 2 root root           15824 Jul 21 2017 -[1;34mbin+[0m
drwxr-xr-x 2 root root            160 Jul 21 2017 -[1;34mboot+[0m
-rw-r--r-- 1 root root             76 Jul 21 2017 -[0;34mbuild.prop+[0m
drwxr-xr-x 2 root root            160 Jul 21 2017 -[1;34mcache+[0m
drwxr-xr-x 6 root root            416 Jan 1 1970 -[1;34mdata+[0m
drwxr-xr-x 3 root root            224 Jan 1 1970 -[1;34mdata0+[0m
drwxr-xr-x 3 root root            224 Jan 1 1970 -[1;34mdata1+[0m
drwxr-xr-x 8 root root            5440 Jan 6 00:53 -[1;34mdev+[0m
drwxr-xr-x 33 root root           8672 Jan 6 00:53 -[1;34metc+[0m
drwxrwxr-x 3 1007 1007            224 Jun 16 2017 -[1;34mfirmware+[0m
drwxr-xr-x 3 root root            224 Jan 1 1970 -[1;34mhome+[0m
drwxr-xr-x 4 root root            3160 Jul 21 2017 -[1;34mlib+[0m

```

3.2 Mounting U Disk

The U disk directory is not accessible when the OTG function is used. Therefore, developers should mount it. Follow the processes below:

Insert the U disk. The system displays the device name `/dev/sda[??]`.

```

root@mdm9607-perf:/dev# ls -l sd*
brw-r----- 1 root disk      8,  0 Jan 6 00:14 sda
brw-rw----  1 root root      8,  1 Jan 6 00:14 sda1

```

Create a new directory. The system generates a mounting directory `/udisk`. Developers can use it to mount the U disk, and files in the directory are those stored in the U disk.

Mount the U disk.

```
mount -t vfat /dev/sda1 /udisk
```

The U disk is mounted successfully.

Navigate to the U disk directory and check the data inside.

```
cd /udisk
```

```
ls -l
```

The data in the U disk is displayed.

```
root@mdm9607-perf:/media/udisk# ls
???? API_20170321
API_20170227.rar
API_20170321
API_20170321.rar
Image-rk3288_box
LINUX???RNDIS?? .docx
LOST.DIR
M660_I_1230_LQS13000_V018G_20150118.rar
N720
N720_DOB0CM_TW_FSU_V001_0418.rar
```

For OTG commissioning codes, see **neoway/sample/udisk/main.c**.