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N720 OpenLinux
OTG Commissioning Guide

Version 1.0

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GET CONNECTED GET SMART

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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.

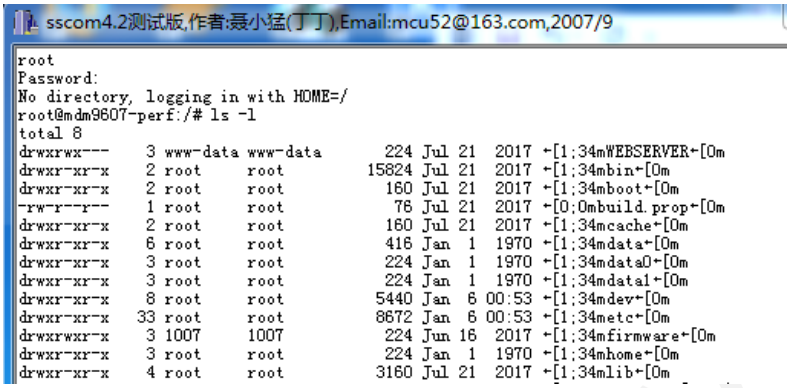
inittab

```
l0:0:wait:/etc/init.d/rc 0
l1:1:wait:/etc/init.d/rc 1
l2:2:wait:/etc/init.d/rc 2
l3:3:wait:/etc/init.d/rc 3
l4:4:wait:/etc/init.d/rc 4
l5:5:wait:/etc/init.d/rc 5
l6:6:wait:/etc/init.d/rc 6

# Normally not reached, but fallthrough in case of emergency.
z6:6:respawn:/sbin/sulogin

#runs reboot daemon
#rb:5:respawn:/sbin/reboot-daemon

# Clean up any session file from a previous boot before starting mbimd
m1:5:wait:rm -f /var/run/qbi_session_active
m2:5:respawn:/usr/bin/mbimd

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)



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_DOBOCM_TW_FSU_V001_0418.rar
```

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