

# **Technical Note**

TN# MCSTN290

Rev# 1.0

Release Date : 2023 / 8 / 21

Category: Software

Support Model: ATC3530 / ATC3540

#### Subject

How to recovery image without recovery mode in ATC3530 3540 serial

#### Introduction

The step of recovery image with with console

## **Trouble Shooting Step-by-Step**

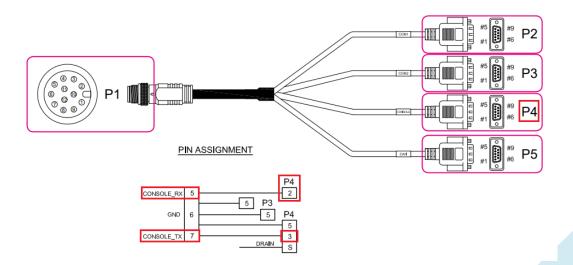
# **Prepare materials**

- 1. One system with Ubuntu OS and install Putty.
- 2. USB to RS232 transfer tool as below picture (any brand will do):



3. Connect the RX/TX of USB to RS232 transfer tool to Multi Port External Cable P4 Pin2/3.

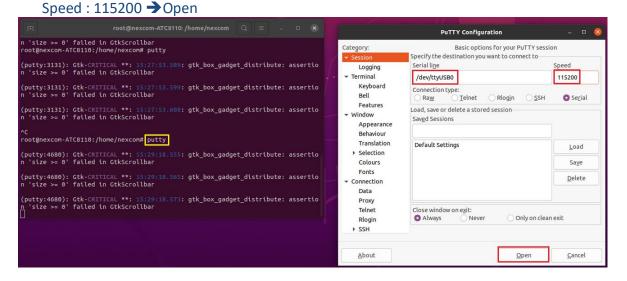
## Multi Port External Cable (P/N: 6030000475X00)





## Recovery

Execute Putty in host system.
 Serial Line: /dev/ttyUSB0



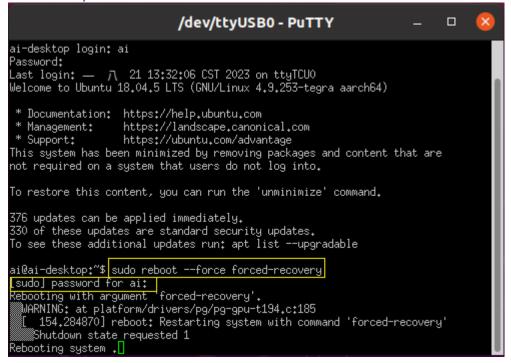
2. Press Enter in Putty window and entry password, it will show the information about updated system.





The Intelligent Systems

3. Entry command: sudo reboot –force forced-recovery and password then ATC serial into recovery mode.

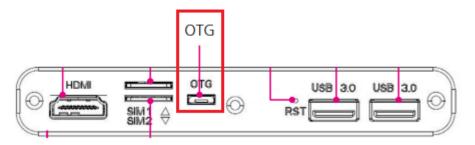


Go back to image folder and un-tar image file:
 # tar xvf ATC3530\_mfi\_v3.0.1\_NX\_8G.tar.gz
 Note. The commands need to be modified according to different file names.

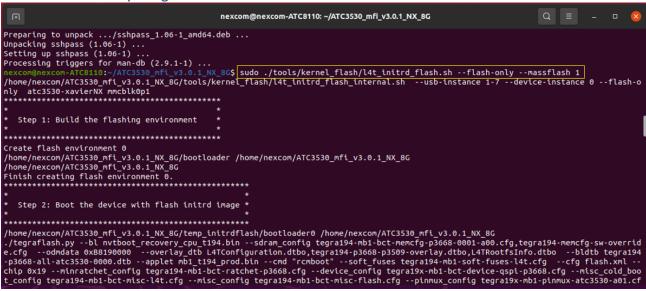
```
nexcom@nexcom-ATC8110: ~
 nexcom@nexcom-ATC8110: $ cd /home/nexcom/
 nexcom@nexcom-ATC8110:-$ ll
total 3265712
                                                                    4096 八 21 15:09 ./
4096 八 15 09:20 ../
996613 八 21 2023 ATC3530 nfi v3
55 八 21 15:23 .bash_history
220 八 15 09:20 .bash_logout
3771 八 15 09:20 .bashrc
4096 八 21 15:05 .cache/
4096 八 21 2023 .config/
4096 八 21 2023 Desktop/
4096 八 21 2023 Documents/
4096 八 21 2023 Jocuments/
4096 八 21 2023 .gnupg/
4096 八 21 2023 .gnupg/
4096 八 21 2023 .local/
4096 八 21 2023 .mozilla/
4096 八 21 2023 .mozilla/
4096 八 21 2023 .profile
4096 八 21 2023 Public/
4096 八 21 2023 .ssh/
0 八 21 2023 .sudo_as_admin
4096 八 21 2023 .sudo_as_admin
                                                                                   八 21 15:09 /
drwxr-xr-x 17 nexcom nexcom
                                                                       4096
drwxr-xr-x 3 root root
 -rw-r--r-- 1 root root :
-rw----- 1 nexcom nexcom
                                                          3343996613
 -rw-r--r-- 1 nexcom nexcom
-rw-r--r-- 1 nexcom nexcom
drwxr-xr-x 13 nexcom nexcom
drwx----- 11 nexcom nexcom
drwxr-xr-x 2 nexcom nexcom
drwxr-xr-x 2 nexcom nexcom
drwxr-xr-x 3 nexcom nexcom
drwx----- 3 nexcom nexcom
drwxr-xr-x 3 nexcom nexcom
drwx----- 4 nexcom nexcom
drwxr-xr-x 2 nexcom nexcom
drwxr-xr-x 2 nexcom nexcom -rw-r--r- 1 nexcom nexcom
drwxr-xr-x 2 nexcom nexcom
drwx----- 3 nexcom nexcom
drwx----- 2 nexcom nexcom
 -rw-r--r-- 1 nexcom nexcom
                                                                                          21 2023 .sudo_as_admin_successful
                                                                                         21
drwxr-xr-x 2 nexcom nexcom
drwxr-xr-x 2 nexcom nexcom
                                                                                            21 2023 Templates/
21 2023 Videos/
                                                                        4096
                                                                        4096
                                                                                   八
 nexcom@nexcom-ATC8110:~$ tar xvf ATC3530_mfi_v3.0.1_NX_8G.tar.gz
```



5. Using Micro USB cable connects Host to ATC serial OTG USB port.



 Execute recovery command: sudo ./tools/kernel\_flash/l4t\_initrd\_flash.sh --flash-only --massflash 1 Start to recovery image.



7. Recovery finished, it will shows "Success".

```
mriting item=60, 1:3:RECROOTFS, 15328608256, 104857600, , , fixed-<reserved>-17,
[ 392]: l4t_flash_from_kernel: Warning: skip writing RECROOTFS partition as no image is specified
writing item=61, 1:3:esp, 15433465856, 67108864, esp.img, 67108864, fixed-<reserved>-18, be7b5daf995f0e0fc096952e16aeb655f3514696
Writing esp partition with esp.ing
Get size of partition through connection.
67108864 bytes from /home/nexcom/ATC3530_mfi_v3.0.1_NX_8G/tools/kernel_flash/images/internal/esp.img to /dev/sdb: IKB block=65536 remainder=0
dd if=/home/nexcom/ATC3530_mfi_v3.0.1_NX_8G/tools/kernel_flash/images/internal/esp.img of=/dev/sdb bs=1K skip=0 seek=15071744 count=65
5366
6553640 records in
65533640 records out
67108864 bytes (67 MB, 64 MiB) copied, 10.8078 s, 6.2 MB/s
Writing item=62, 1:3:UDA, 15500574720, 257408512, , expand-<reserved>-19,
[ 403]: l4t_flash_from_kernel: Warning: skip writing UDA partition as no image is specified
writing item=62, 1:3:UDA, 15500574720, 257408512, , expand-<reserved>-19,
[ 403]: l4t_flash_from_kernel: Warning: skip writing UDA partition as no image is specified
writing item=63, 1:3:secondary_gpt, 15757983232, 16896, gpt_secondary_1_3.bin, 16896, fixed-<reserved>-0, 807ebe6bb13e7fd5bbb59fa68bee4
dcca3976032
[ 403]: l4t_flash_from_kernel: Successfully flash the emmc
[ 403]: l4t_flash_from_kernel: Flashing success

Reboot target
Run command: sync; nohup reboot %>/dev/null & exit on root@fe80::1%usb0
SSH ready
SUCCESS

Cleaning up...
Log is saved to Linux_for_Tegra/initrdlog/flash_1-7.0_20230821-154000.log
nexcon@nexcon_ATC8110:=/ATC3530_mfi_v3.0.1_NX_8G
```



8. In ATC serial side, it will start to configure the system.

