

EC2X&AG35-QuecOpen

Downloading Methods

for Developers and

Production Line

LTE Module Series

Rev.EC2X&AG35QuecOpen_Downloading_Methods_for_Developers_and_
Production_Line

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About the Document

History

Revision	Date	Author	Description
1.0	2018-03-05	Ramos ZHANG	Initial
1.1	2018-03-05	DingGuo WANG	Added chapter for fastboot upgrade

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Downloading Methods for Developers

- 1** For developers, taking fastboot method will improve efficiency. Fastboot method is mainly used to upgrade and erase single binary file, such as the kernel image compiled by SDK.

Enter Into Fastboot Mode

- 1.1.**
- (1) Connect USB and debug port to host.
 - (2) Use Securt tool to open debug port, press and hold "Ctrl"+"C" buttons, then power on, enter **fastboot**, press "Enter" button, then module will enter fastboot mode.

```

U - 560590 - SEC Image Loaded, Delta - (388556 Bytes)
B - 560590 - Image Load, Start
D - 67680 - APPSBL Image Loaded, Delta - (388556 Bytes)
B - 628269 - QSEE Execution, Start
D - 213 - QSEE Execution, Delta
B - 634034 - SBL1, End
D - 531462 - SBL1, Delta
S - Throughput, 3000 KB/s (1032044 Bytes, 298591 us)
S - DDR FrequencyAndroid Bootloader - UART_DM Initialized!!!
[0] welcome to lk

[10] platform_init()
[10] target_init()
[10] waiting for the RPM to populate smd channel table
[10] smem ptable found: ver: 4 len: 20
[20] ERROR: No devinfo partition found
[20] Neither 'config' nor 'frp' partition found
[20] [Ramos] get fastboot message start !!!
[30] [Ramos] get fastboot message end !!!
CTRfastboot

```

Ready

- (3) Open cmd window under adb folder.

1 F:\document\AG35\adb\adb>

Download

In cmd window, please enter: **fastboot flash <partition> <filename>**.

After downloading, enter `fastboot reboot` to reboot module, then exit fastboot mode.

```
F:\document\AG35\adb\adb>fastboot flash boot D:\download\EC20CEFAG\EC20CEFAGR06A
01M4G_OCPU_BETA0103\update\mdm9607-perf-boot.img
    sending 'boot' (5790 KB)... OKAY [ 0.197s]
    writing 'boot'... OKAY [ 1.088s]
finished. total time: 1.285s

F:\document\AG35\adb\adb>
```

Erase

1.3. In cmd window, please enter: `fastboot erase <partition>`.

After downloading, enter `fastboot reboot` to reboot module, then exit fastboot mode.

```
F:\document\AG35\adb\adb>fastboot erase boot
    erasing 'boot'... OKAY [ 0.065s]
finished. total time: 0.066s

F:\document\AG35\adb\adb>
```

1.4. Correspondence Between <partition> and <filename>

When download via Fastboot method, partition and file name are required.

Table 1: Correspondence Between <partition> and <filename>

Partition Name	Executable File Name	Mark
aboot	appsboot.mbn	BootLoader
boot	mdm9607-perf-boot.img	kernel
modem	NON-HLOS.ubi	modem
usr_data	usrdata.ubi	Users' data
system	mdm9607-perf-sysfs.ubi	rootfs

NOTE

Must reboot module by `fastboot reboot` command after downloading by fastboot.

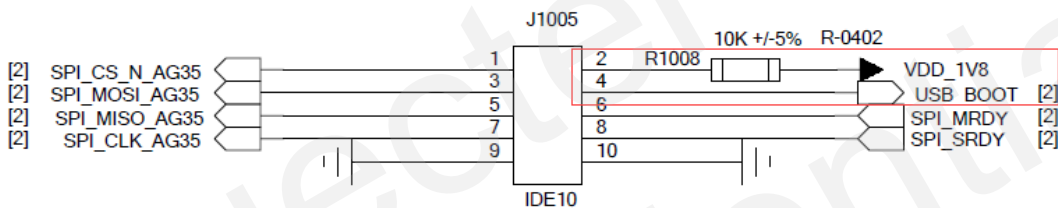
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Downloading Method for Production Line

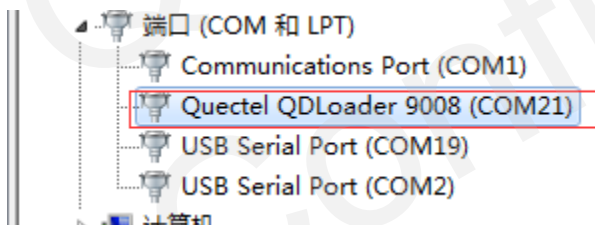
2

For production line, taking firehose method will improve efficiency.

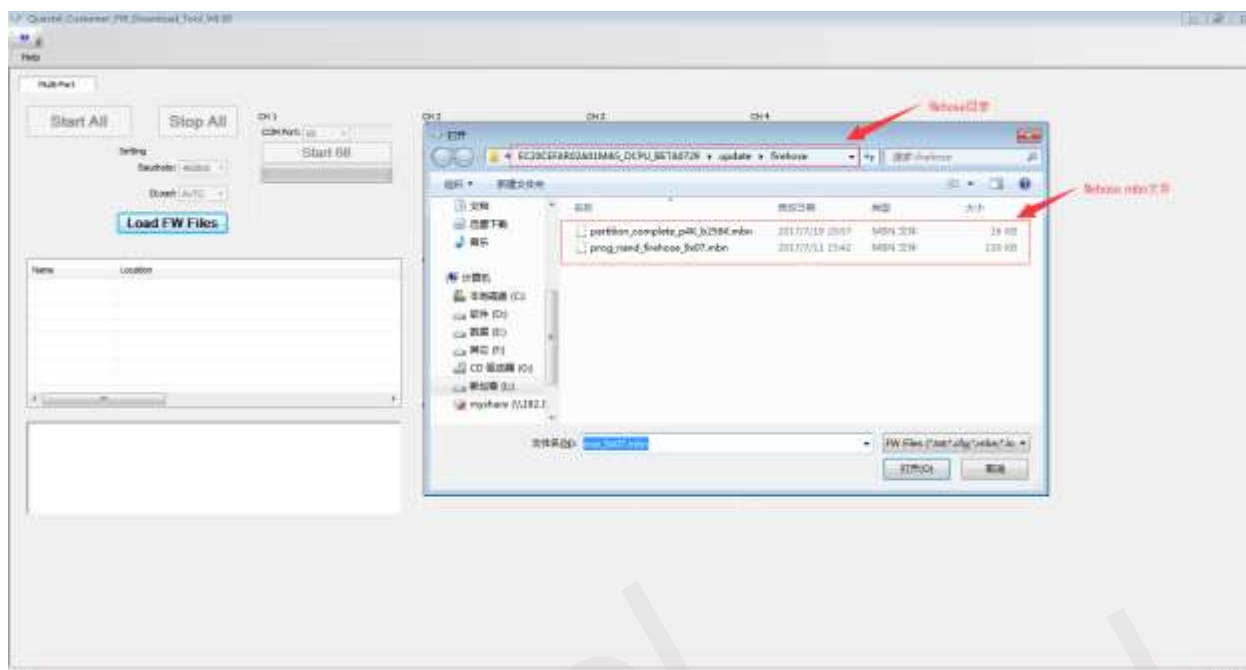
- (1) Connect the USB on module to host by USB HUB.
 - (2) Pull up pin USB_BOOT when module booting to enter downloading state directly.
- Such as VDD_EXT pin can output 1.8V voltage, shorting pin VDD_EXT and USB_BOOT to enter QDloader.
(Number 2, 4 pin of J1005 on LTE OPEN-EVB_V1.1)



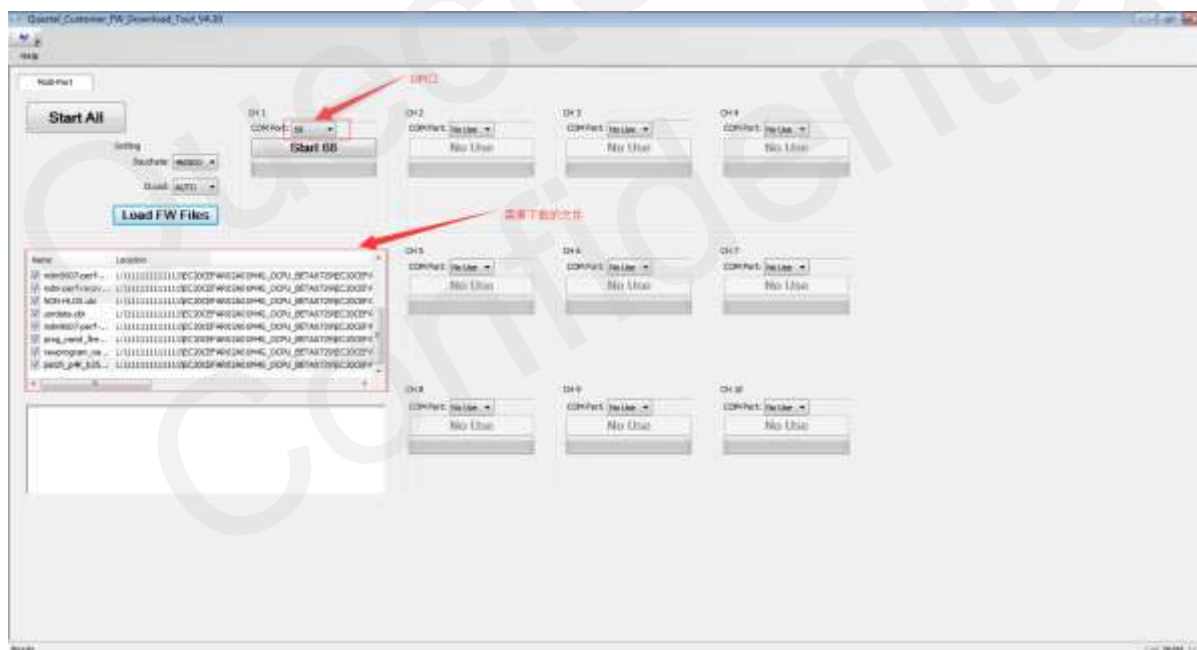
To check whether there is QDloader interface in Device Manager.



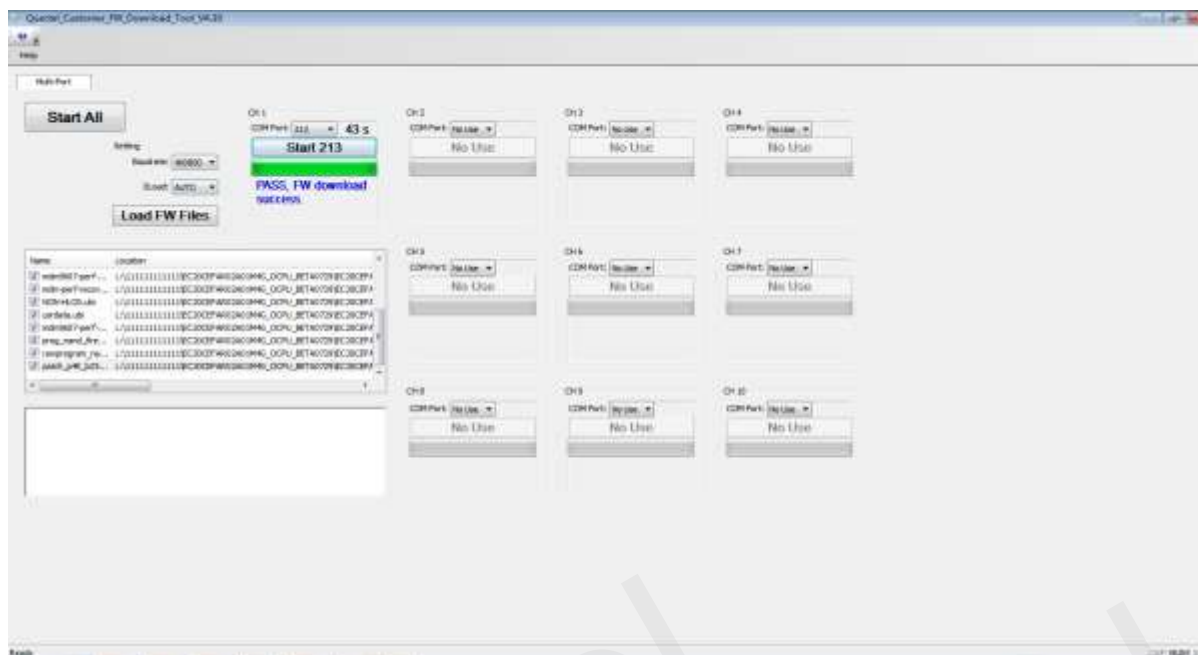
- 1) Download firmware by tool Quectel_Customer_FW_Download_Tool_Vx.xx.exe, and the host should install Quectel_LTE_Windows_USB_Driver_V1.0.0 driver.
- 2) Press button "Load FW Files", select the directory path of firehose folder to be downloaded.



3) Select any mbn file, then select QDloader port (or DM port)



Press "start" button, downloading will be completed in tens of seconds.



Integrate Downloading Tool by Linux Host

3

Connect the USB on module to Linux Host, and downloading tool can be integrated by Linux Host. For the details please refer to the following documents:

Quectel_EC25&EC21&EC20 R2.0_QFlash_Linux&Android_User_Guide_V1.0.pdf