
QGDP Down Load Tool Instruction

VER : V1.2

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Date : 2017-11-27

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Document Record

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1、 QGDP environment instruction

1.1 Operating environment

QGDP download tool support winxp, win7, win8, win10 32/64 bit operating system

CPU 2GHZ or above

DDR 2G or above

1.2 Support environment

1).hard device:

- 1). PC
- 2). USB cable
- 3). phone & PCB

2). driver:

MTK,QUALCOMM,FASTBOOT USB driver

3).phone Software version type:

xxx.CPB file

1.3 QGDP

QGDP Three types version:

1).Smt version(QGDP_Setup_Vxxx_SMT)

The tool version is used for the SMT production line download station.

2).Assembly version (QGDP_Setup_Vxxx_Assembly)

The tool version is used for the Assembly production line download station.

3).Develop version (QGDP_Setup_Vxxx_Developer)

The tool version is used for the test engineer, mobile software developer.

1.4 Supported platforms

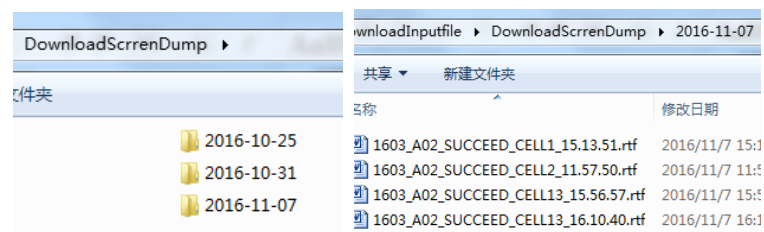
Currently supports Spreadtrum, MTK, Qualcomm platform to download.

1.5 CPB file introduction

QGDP Tool only supports download our unique mobile phone software package ".CPB" file, does not support the platform of the original ".img" file download.

1.6 log file

Log file in the tool installation directory under the DownloadScreenDump folder , Files sorted by time, and name is xxx.rtf file.



1.7 Support multi-threaded download

QGDP tool supports up to 16 threads for download

2、Tool installation

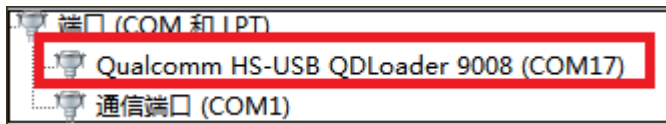
2.1 Preparation: Drive inspection

Before downloading, please confirm that the mobile phone driver installation is successful, check method: Connect the phone in the PC Device Manager to see if there is download port

Position: computer→ management→ Device Manager→port(COM&LPT)

1).qualcomm download port(SMT)

Download mode to enter : Empty board directly connected to the PC, if the downloaded phone need to press the volume keys or connect the test point, and then connect the phone, check PC Device Manager download port exists



2) .fastboot port(assembly , developer , customer)

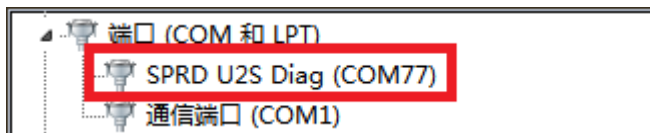
Download mode to enter : Spreadtrum and Qualcomm platform need press the volume keys ,and then connect the phone, check PC Device Manager download port exists

MTK platform need Press the volume up and down keys, and then connect the phone, check the PC Device Manager download port exists



3). Spreadtrum download port(SMT/ASSEMBLY)

Download mode to enter : press the volume keys ,and then connect the phone, check PC Device Manager download port exists



4).MTK download port(SMT)

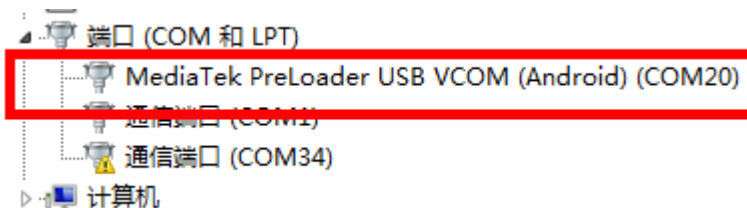
Download mode to enter : Phone off, and then connect the phone, check the PC Device Manager

download port exists



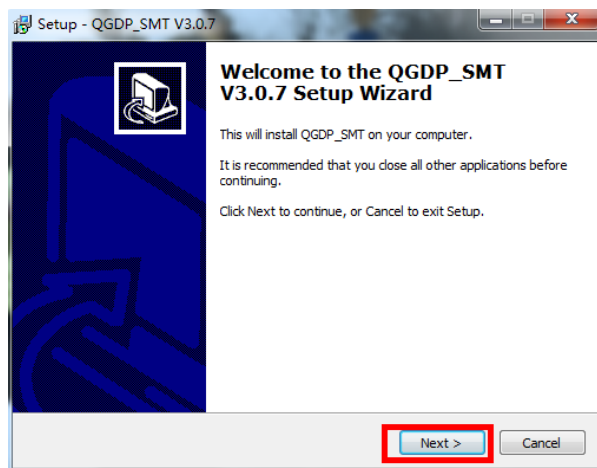
5).MTK port (ASSEMBLY)

Download mode to enter : Phone off, and then connect the phone, check the PC Device Manager
download port exists

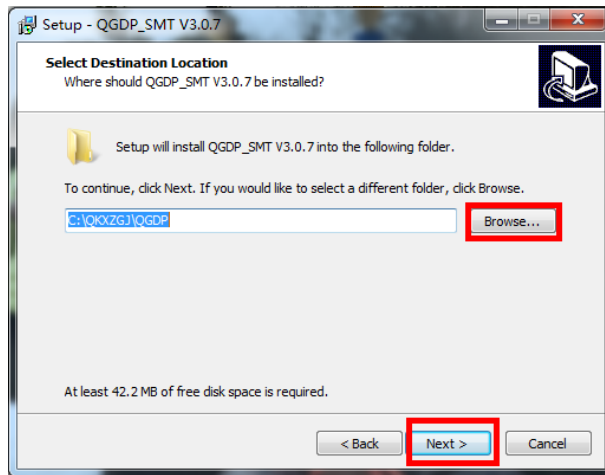


2.2 Installation steps

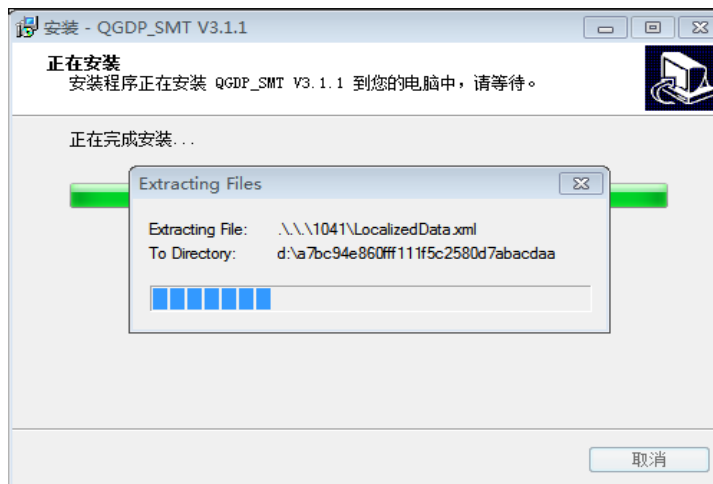
1). Double-click the installation package to install



2). Select the installation path and click Next



3). The installation package will automatically install the patch



4). Installation complete

When the tool is installed, it will generate an icon on the desktop.



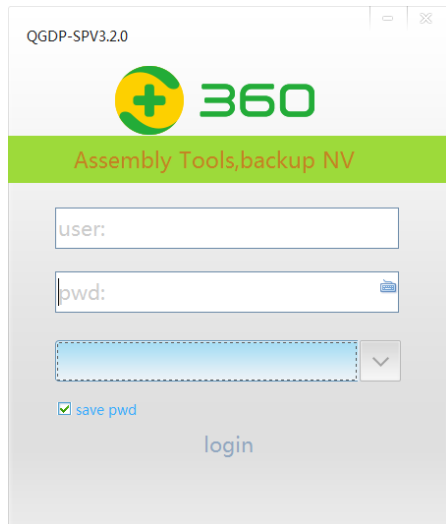
2.3 Green Software Install

If you get the green software package(with .zip or .tar suffix), you can unzip it and run direct. Before running you must click install 2010vcredist_x86.exe to install base library that not auto install as green software mode.

3、Instructions for use

3.1 Account login

The QGDP tool has three modes: SMT download, ASSEMBLE download and DEVELOP download. Each mode corresponds to a separate tool, but all tools need to verify accounts first when logging on like below:

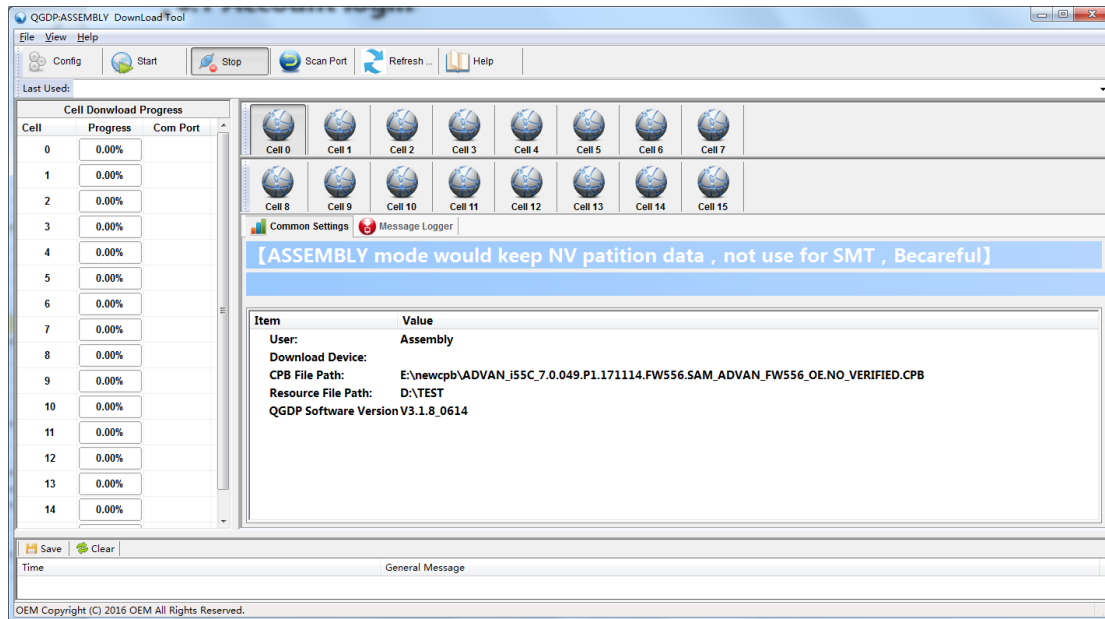


NOTICE :

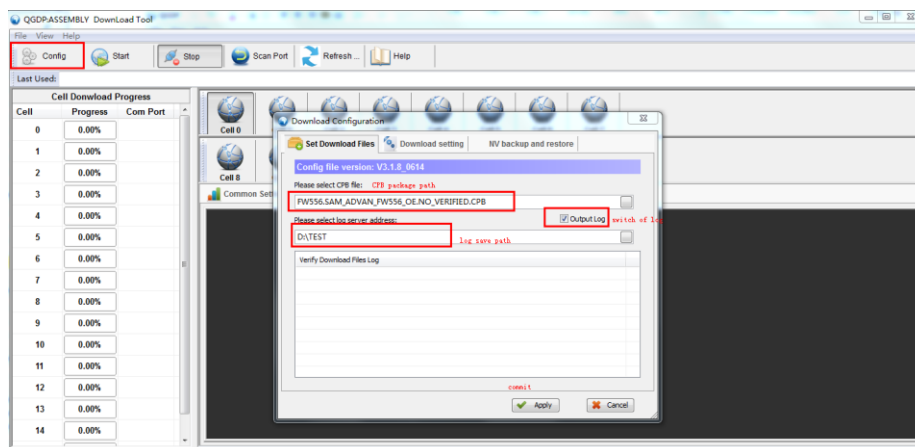
- The description on login interface prompts which mode the tool would work with(SMT, Assembly, Developer);
- “user” information is customer register in signature system server(signature account’s front part before “@”, if there is no “@” take the signature system account);
- “pwd” information is default “123456”;
- After enter “user” and “pwd” information, click third combox get board list.And then choose one board type from list.If no board type please choose “NULL”(NULL stand for not need check board type);
- After choose board type you can click “login” login on the tool main interface.
- Checkbox “save pwd” is optional,the user name and password will be save if you check it when you login on, and auto input at next time login on;
- If you have any other questions when login on please contact your customer service.

3.2 Configuration

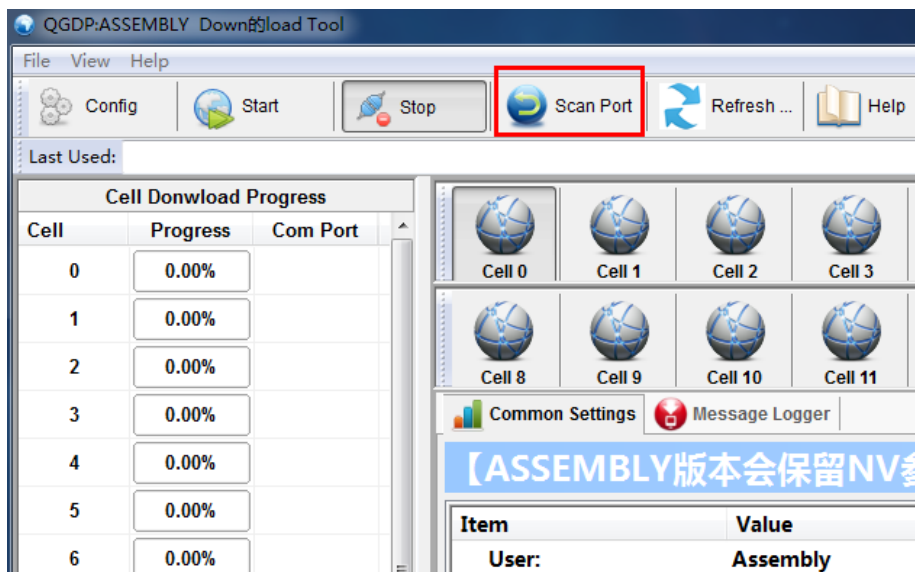
After Check account information, you will enter work interface:



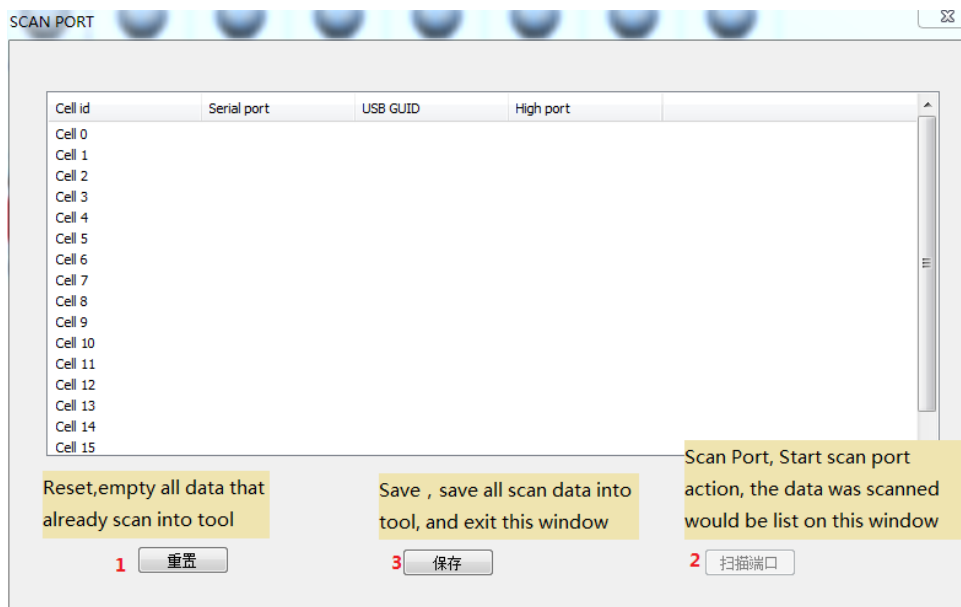
- 1). Make sure the PC can be connected to the network before using the QGDP tool ,click “Config” button.
- 2). Select the CPB package path and click the “Apply”button to verify the integrity of the CPB file data.



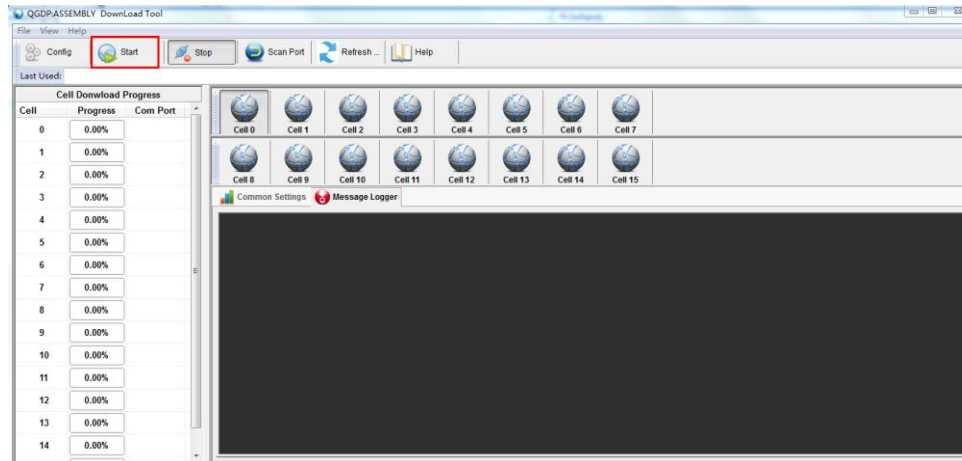
- 3).After CPB file verification complete, Scan port.
 - A. QUAM and SPRD platform add scan port step same as MTK, the scan method is described as below:
 - a) After Choose CPB package that you plan to load.
 - b) Click “Scan Port” button as below to open “SCAN PORT” window.



c) On "SCAN PORT" window, run scan port operations as below:



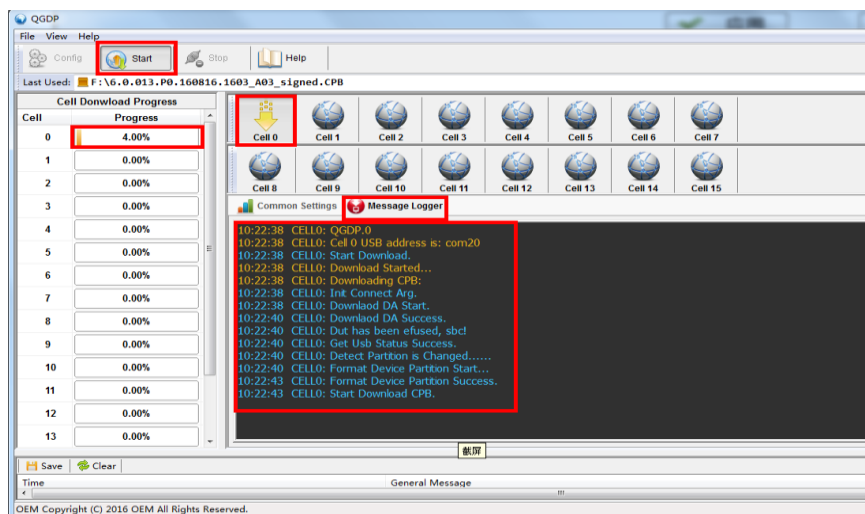
- (1) Click "Reset" to empty old data
 - (2) Click "Scan Port" and then use usb line connect all smart mobiles with PC (that QGDP tool working on). At the same time you need press mobile function key to make sure the PC can find new device connect itself (the function key is not same as different platform).
 - (3) After complete scan all ports, click "Save" to save port data and go back to main window of QGDP.
- 4). Back to the main interface, click "Start", insert the phone to start the download
- A. Disconnect all mobile with usb line(do not disconnect with PC)
 - B. Click "Start" and then connect each mobile again with before usb line and press function keys make sure mobile enter load mode.



3.2 SMT Version

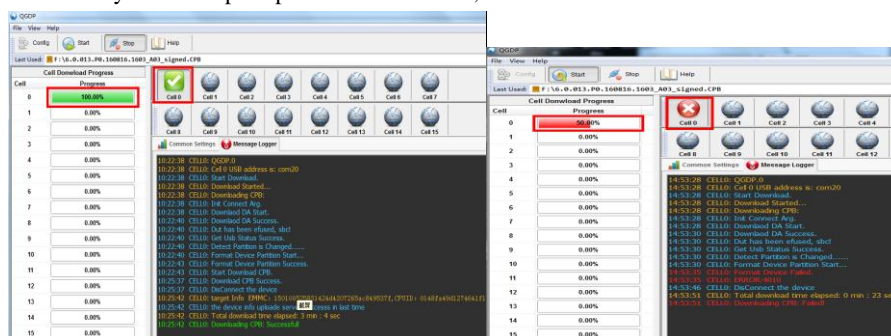
SMT download is usually used for blank board download, will erase the mobile phone RF calibration parameters and user data.

1). Click to start, the phone switch to download mode, connect the phone, download tools to automatically detect the download. Progress bar ,message interface, display icon in downloading



2). Interface display

After the tool download is complete, the download result will be prompted with a green font to download successfully. Red font prompts download failure; and the interface shows the cause of failure;



3.3 ASSEMBLY Version

Assembly download is usually used for firmware upgrade, Used in the assembly line, does not erase the calibration data.

- 1) The use method is same as SM, but that Version not erase NV data.

3.4 DEVELOP Version

Do not erase calibration parameters. (Only in the company's R & D area)

- 1). Landing window can choose SMT, ASSEMBLY, DEVELOPER and other users to enter
- 2). You can choose whether the partition is downloaded, such as: system, userdata and other partitions

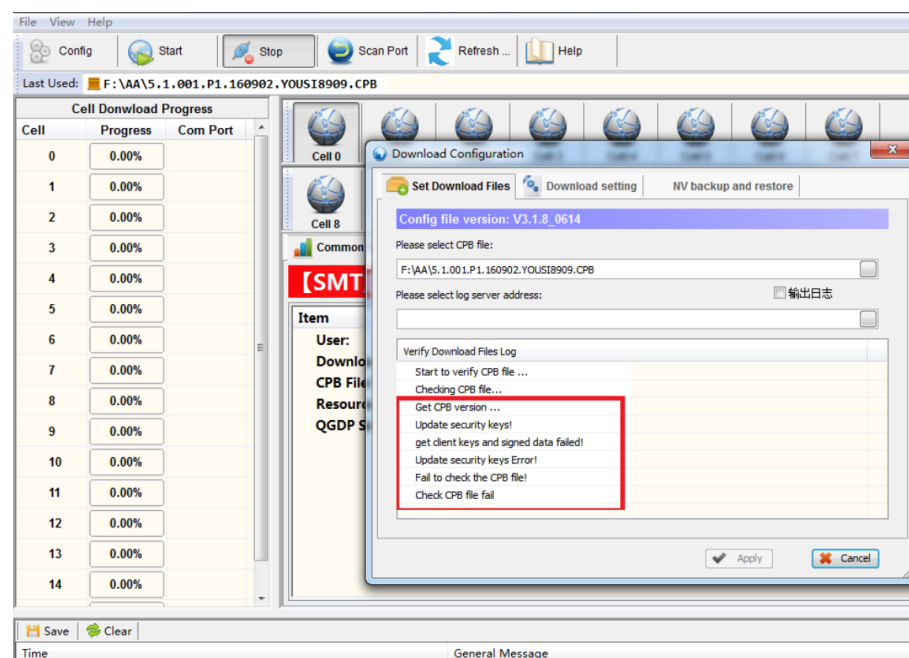
4、FAQ

4.1 Connect the phone, the tool does not respond to click Start

Solution: Please refer to section 2.3 to see if the download port of the phone in the device manager of the PC is present

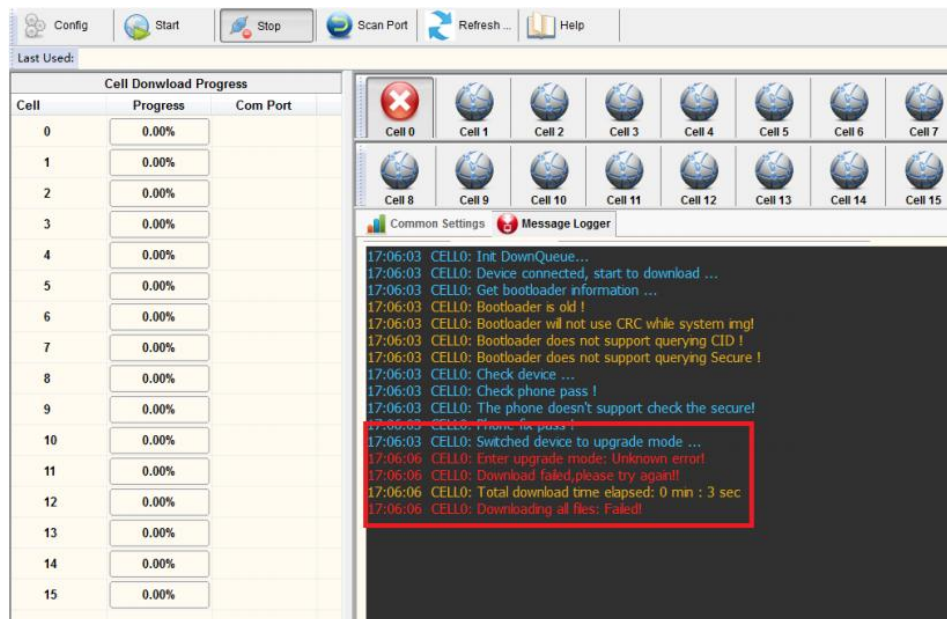
4.2 CPB file validation failed

Solution: Check the pc network settings, Make the PC connected to the network and reload the CPB file.



4.3 Enter upgrade mode failed

Solution: Modify the project name in the CPB package to match the name of the phone

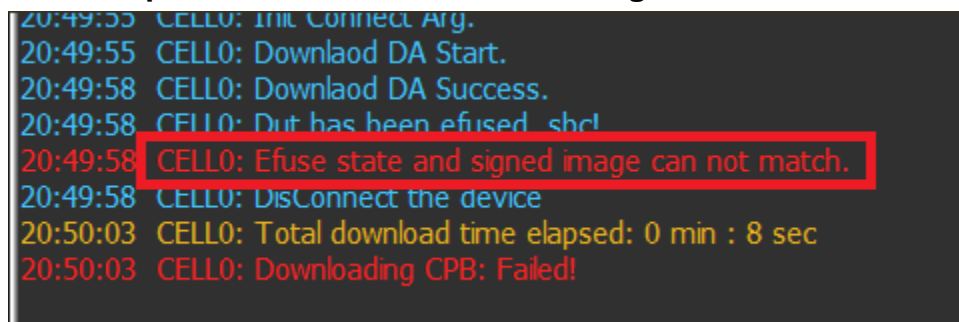


4.4 No download port or download port is displayed abnormally

Solution: Reinstall the platform USB driver, MTK driver installed in the win8 or above operating system, you need to "disable the driver to force signature." The specific drive installation is described in Section 2.3 below.

4.5 Agent download exception(qualcomm firehorse.mbn ,MTK :DA.bin)

& EFuse phone can not download non-signed CPB file

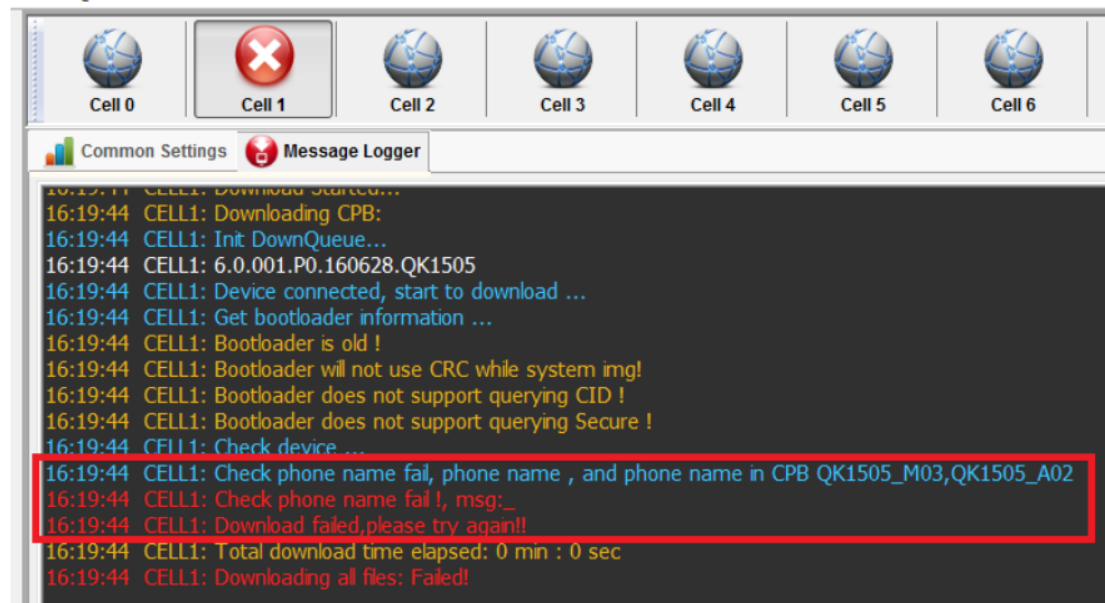


Solution: Modify the DA.bin, firehorse.mbn file for the CPB package , Verify that the software version is signed , DA.bin , firehorse.mbn is signed.

4.6 The CPB package does not match the phone

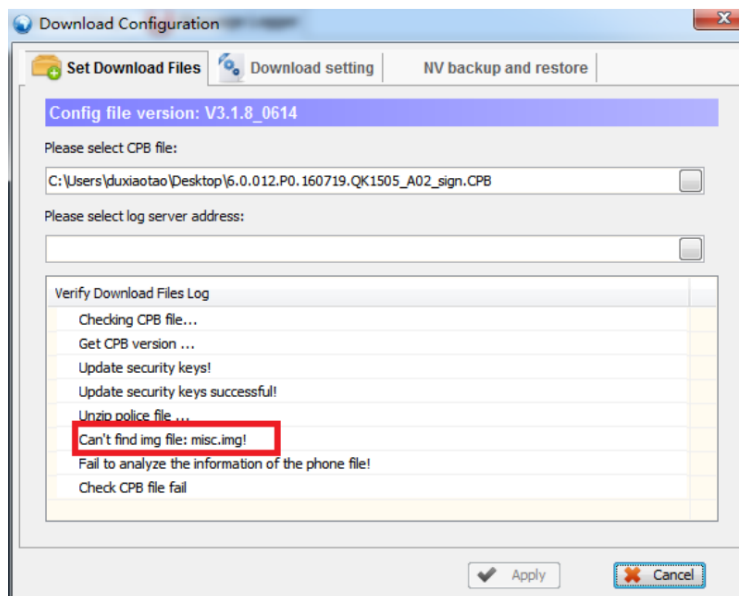
QGDP Tool to read the phone's model information and CPB file to compare failed

50628.QK1505.CPB



Solution: Confirm the CPB file and phone match

4.7 CThe CPB is missing some files



Solution: Add the missing files and repackage

4.8 Fastboot download failed

```
20:21:51 CELL5: Downloading the 2 packet of system
20:22:14 CELL5: Downloading the 3 packet of system
20:22:33 CELL5: Fail to execute flash command!
20:22:33 CELL5: CheckResponse:status read failed (No error)
20:22:33 CELL5: Fail to transmit system.img file data !
20:22:33 CELL5: Download failed,please try again!!
20:22:33 CELL5: Total download time elapsed: 1 min : 11 sec
20:22:33 CELL5: Downloading all files: Failed!
```

Fastboot port is occupied, please uninstall Tencent mobile phone assistant, 360 mobile assistant software like.

Solution: PC task Manager to kill adb.exe, adb.exe, Tencent mobile phone assistant, 360 mobile assistant software like

4.9 The fastboot command failed to send

The phone does not support custom commands, so download failure

Solution: Download the bootloader with custom commands using the platform download protocol

```
11:12:34 CELL2: V3.0.0.0
11:12:34 CELL2: Cell 2 USB address is: 5&DA7EBE5&0&1
11:12:36 CELL2: Download Started...
11:12:36 CELL2: Downloading CPB:
11:12:36 CELL2: Init DownQueue...
11:12:36 CELL2: 6.0.019.P0.160815.QK1505_sign
11:12:36 CELL2: Device connected, start to download ...
11:12:36 CELL2: Get bootloader information ...
11:12:36 CELL2: Bootloader is old !
11:12:36 CELL2: Bootloader will not use CRC while system img!
11:12:36 CELL2: Bootloader does not support querying CID !
11:12:36 CELL2: Bootloader supports querying Secure !
11:12:36 CELL2: Check device ...
11:12:36 CELL2: Check phone pass !
11:12:36 CELL2: Fail to get fuse info,Erro Code:6
11:12:36 CELL2: The CPB is not fixed to this phone !
11:12:36 CELL2: Download failed,please try again!!
11:12:36 CELL2: Total download time elapsed: 0 min : 0 sec
11:12:36 CELL2: Downloading all files: Failed!
```

5、Uninstall

In the software installation directory, by clicking the "unins000.exe" icon to uninstall the software