

## 4. Array course control

### 4-1. Software Adjustments



**Test Jig (GH99-36900A)**



**Test Cable (GH39-01160A)**



**RF Test Cable (GH39-00985A)**



**Adapter (GH99-38251A)**

## 4-2. Software Download

### 4-2-1. Pre-requisite for Download

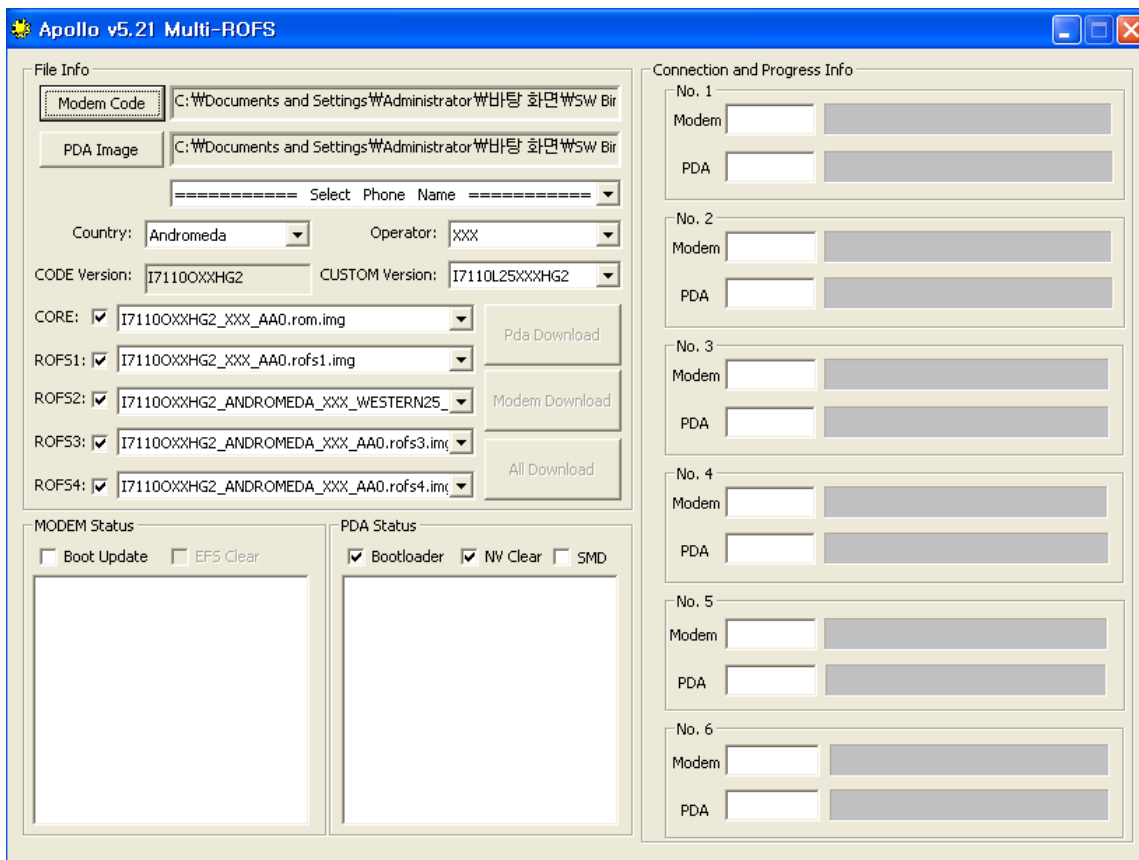
GT-I7110 Mobile Device

Apollo v5.21 : Downloader Application for GT-I7110

USB Download Driver : SS60\_Downloader\_Driver.zip

Rom Image : PDA(RnD.XML), MODEM(\*.BIN) images

Equipment set for Download.



#### 4-2-2. Concepts & cautions.

You can download PDA or MODEM separately. But We are always recommended to download both at the same time using same version of rom image.

To download an image, the phone need to be set to a proper download mode.

There are 3 download modes.

PDA download : Hold 1, 4 keys and power on -> Blue screen with some information.

MODEM download : Hold 7, \* keys and power on -> Blinking "MODEM DOWNLOAD"  
on purple screen

All download : Hold 4, 7 keys and power on -> Blinking "ALL DOWNLOAD" on purple screen

For PDA image download, the phone shows download progress on the screen

For MODEM image download, the phone shows RGBW/B Screen.

For All download mode, MODEM image is downloaded first and then PDA downloading starts.

After downloading PDA, the phone will be reboot.

Do NOT interrupt downloading process or the phone will be damaged. You would be unable to boot up the phone or to re-flash the phone. Let it finish downloading process even though you are flashing wrong images.

### 4-2-3. USB Driver installation for PDA

Execution Apollo v5.24.exe.

GT-I7110 connect to the Host computer using download equipment set.

Hold “1+4” key and insert power supplied test cable when use equipment set 1  
or Hold “1+4” key and press power on key when use equipment set 2.

Install PDA side driver.

Follow New H/W Installation Manager.

Select 'IBootHostUSB.inf'file under 'PDA\_driver' folder when

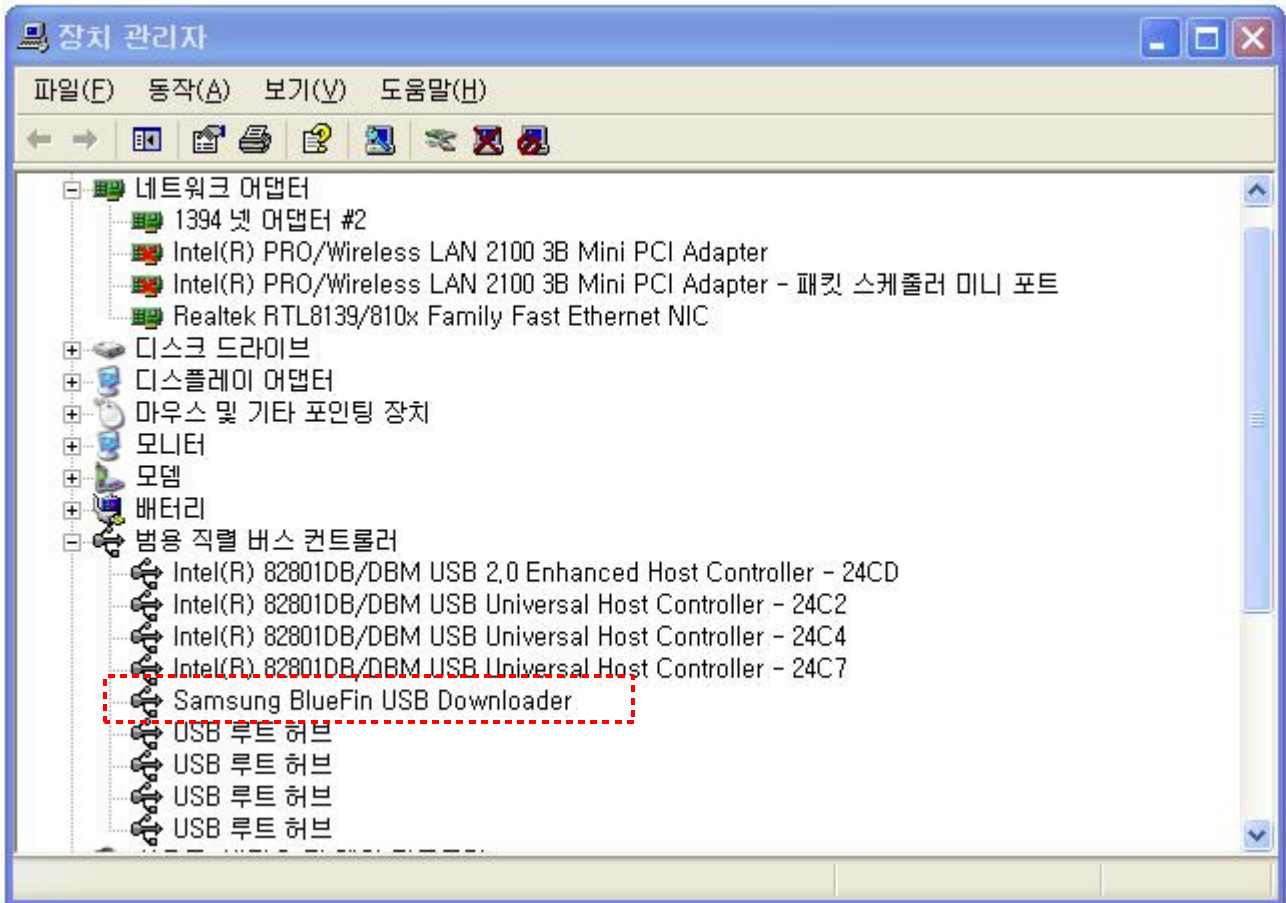
Windows asks for new h/w driver. It is safe to choose “Yes” for the warning window.

Confirm “SAMSUNG BlueFin USB Downloader” Installed.

Refer to Next Page.

\*\* If Windows doesn't ask for USB driver, it means USB driver installation was failed before. Open Hardware Manager then delete devices with?or mark then try again. If it doesn't work, you need to right click on the device then try Driver Update.

After installing PDA driver, Apollo shows the connection status if it is installed properly.



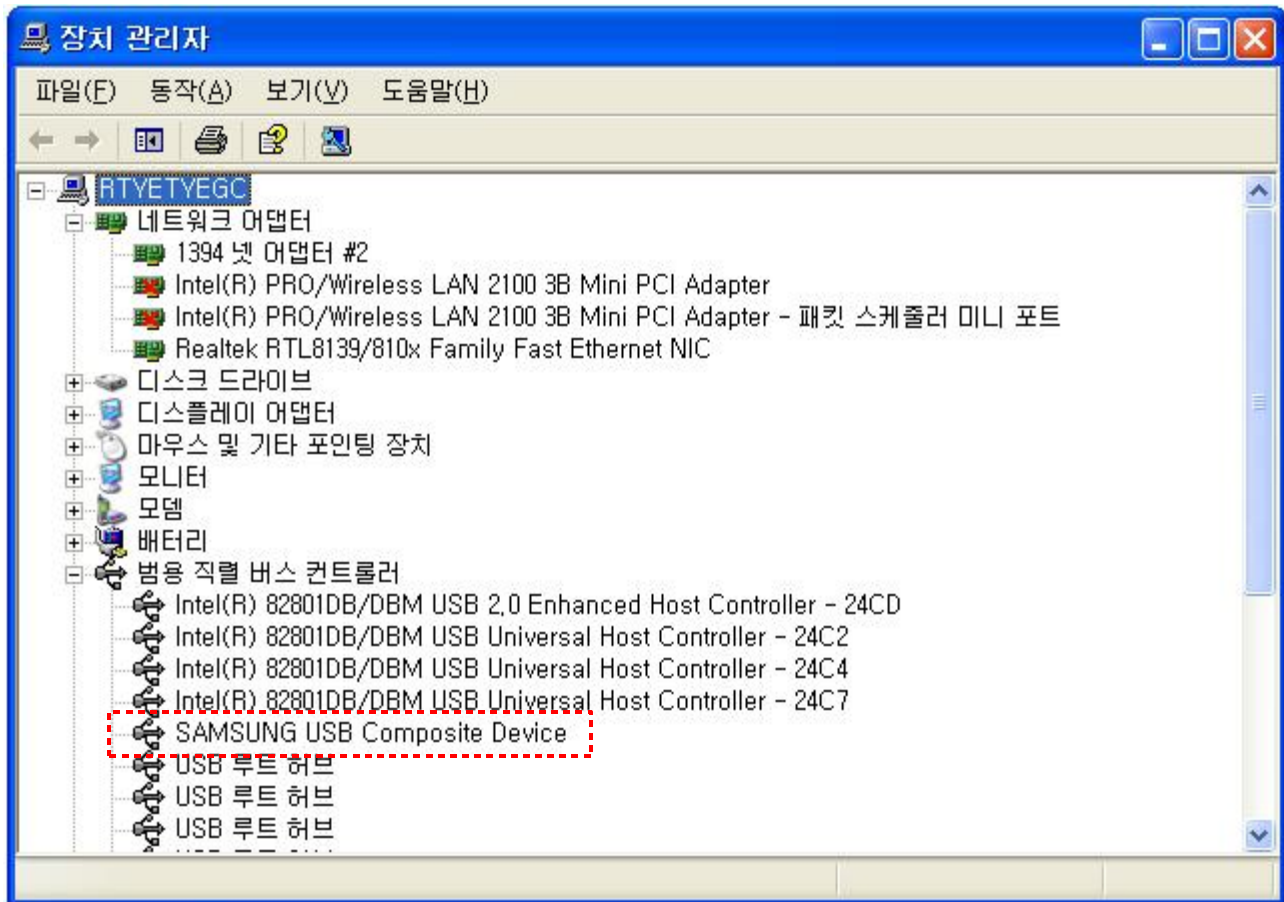
#### 4-2-4. USB Driver installation for MODEM

Hold “7 + \*” key and insert power supplied test cable when use equipment set 1 or  
Hold “7+ \*” key and press power on key when use equipment set 2.

Install Modem side driver.

Execute ‘Setup.exe’file under ‘PHONE\_driver folder’ when Windows asks for new h/w driver.

Confirm “SAMSUNG USB Composite Device” Installed.



#### 4-2-5. USB Driver installation

1. After installing PDA driver, Apollo shows the connection status if it is installed properly.



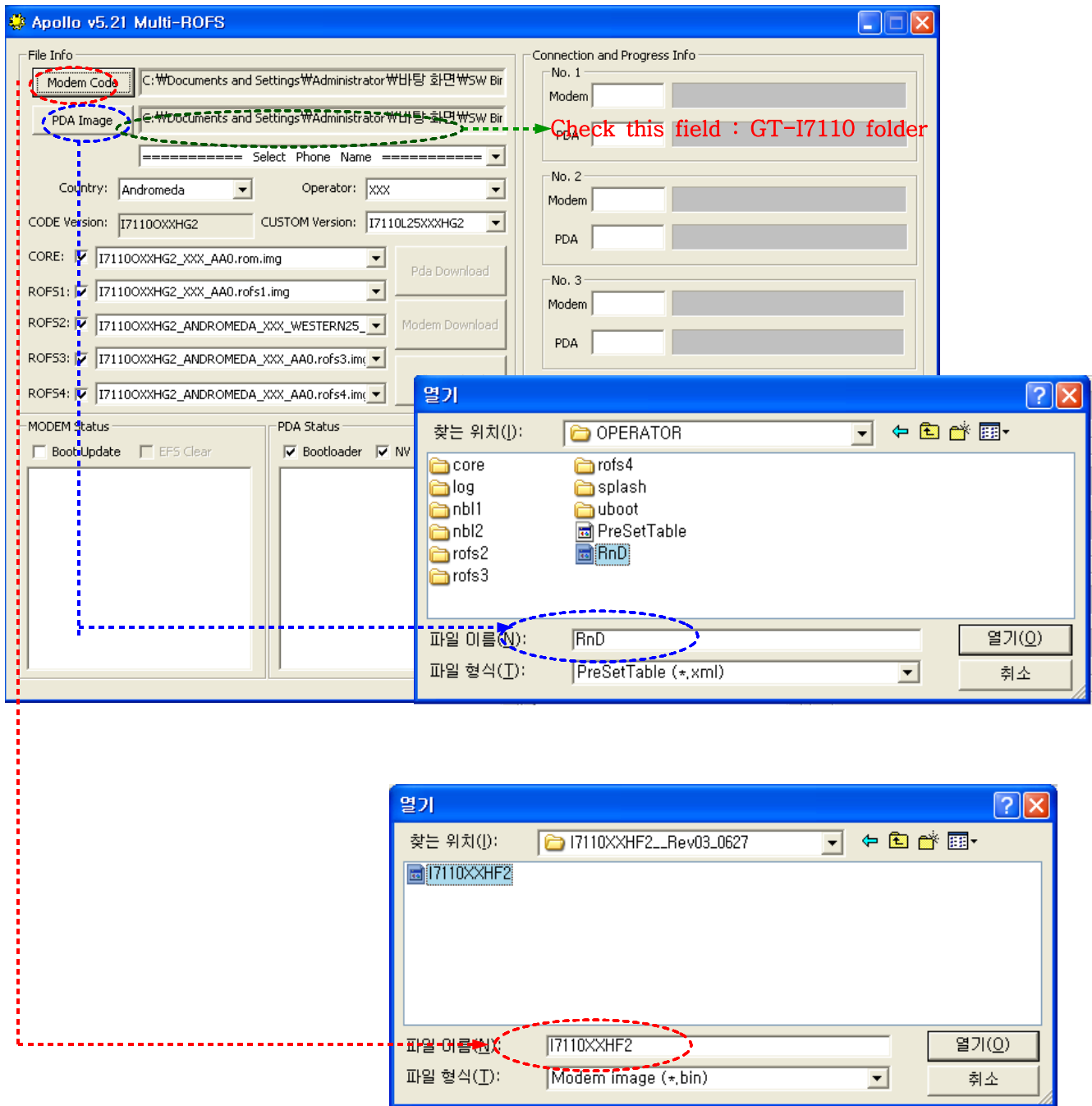
2. After installing MODEM driver, Apollo shows the connection status if it is installed properly.



### 4-2-6. Download the image using APOLLO

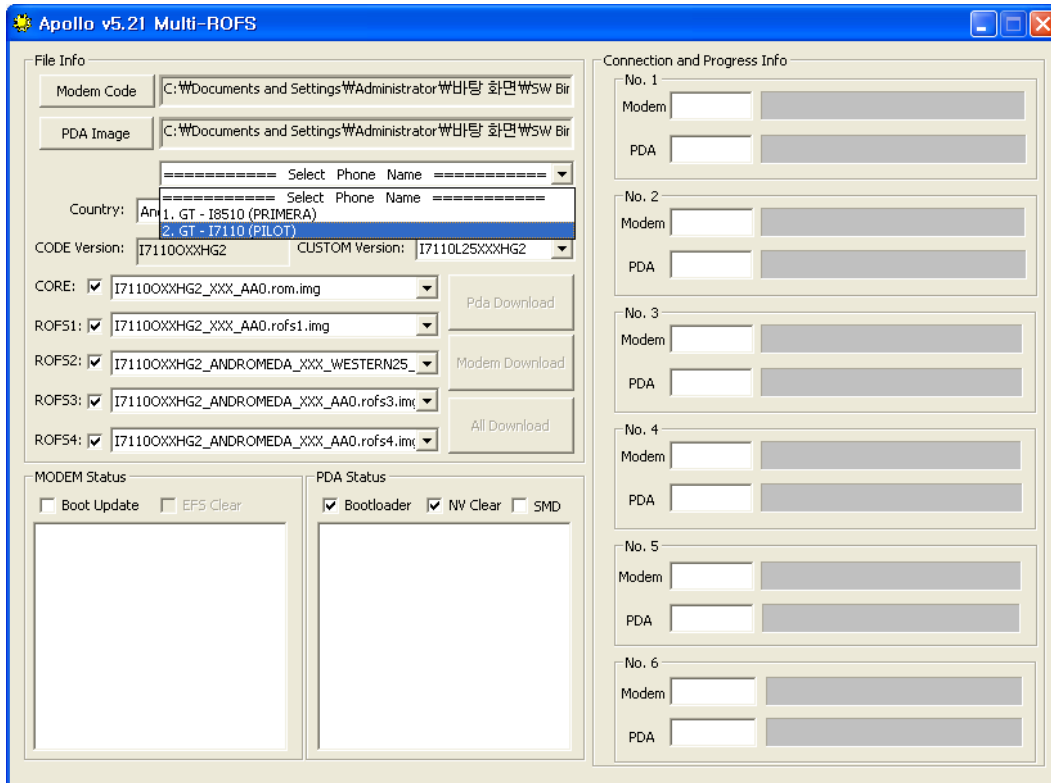
Execution Apollo.exe.

Select a PDA RnD.XML to download

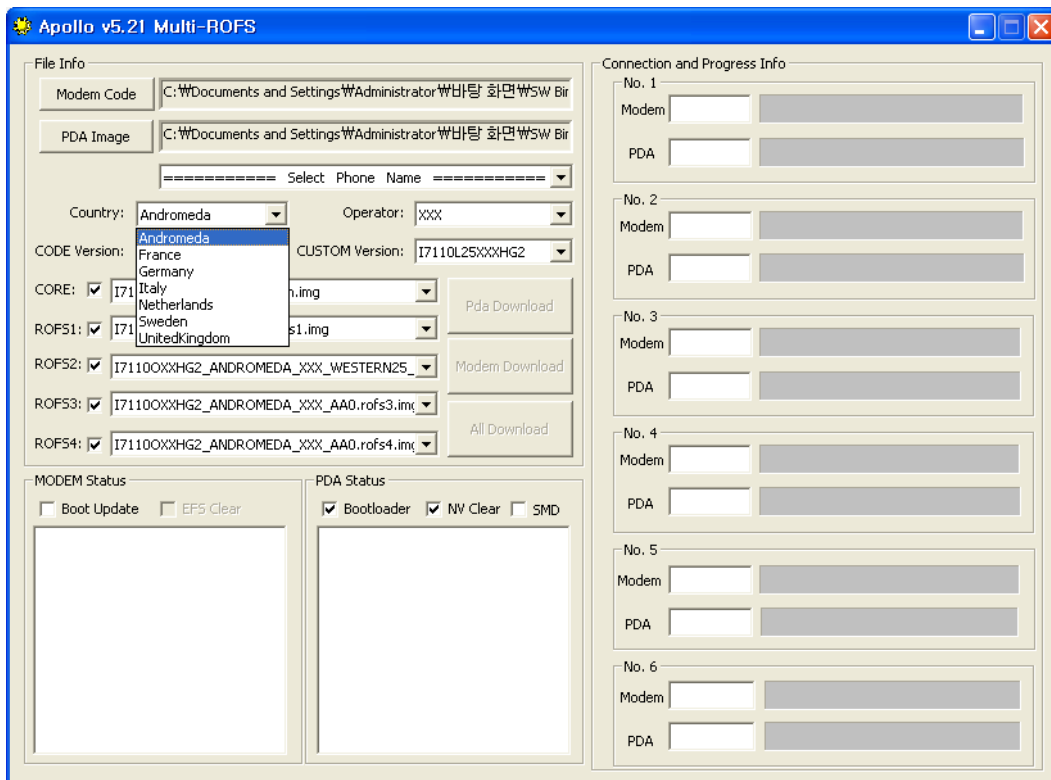




Select the proper check option : GT-I7110(PILOT)



Select the proper check option .



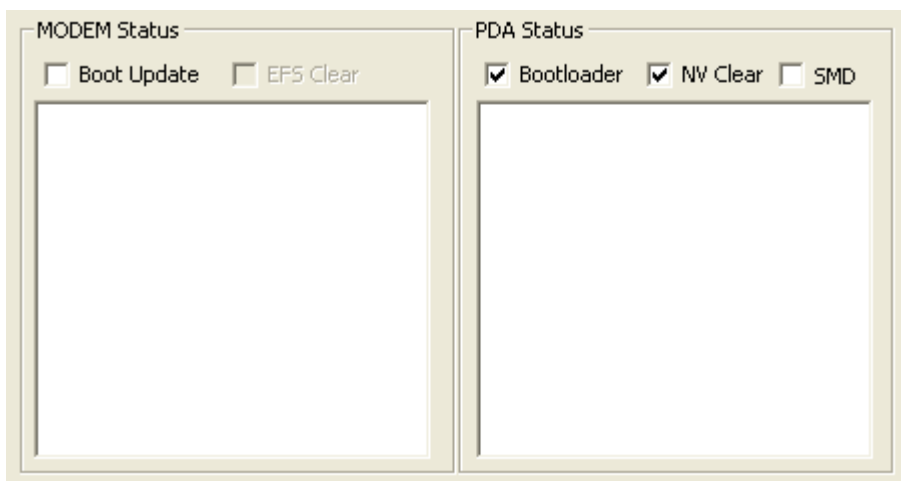
### PDA status

- Bootloader : Update PDA Bootloader section.
- NV Clear : IMEI section erase.

You can see following message when you click this option

### MODEM Status

- Boot Update : Update Modem Bootloader section.



**Make sure that phone and host computer connection, click proper download button.**

**PDA download** : Hold 1, 4 keys and power on -> Blue screen with some information.

**MODEM download** : Hold 7, \* keys and power on -> Blinking "MODEM DOWNLOAD" on purple screen

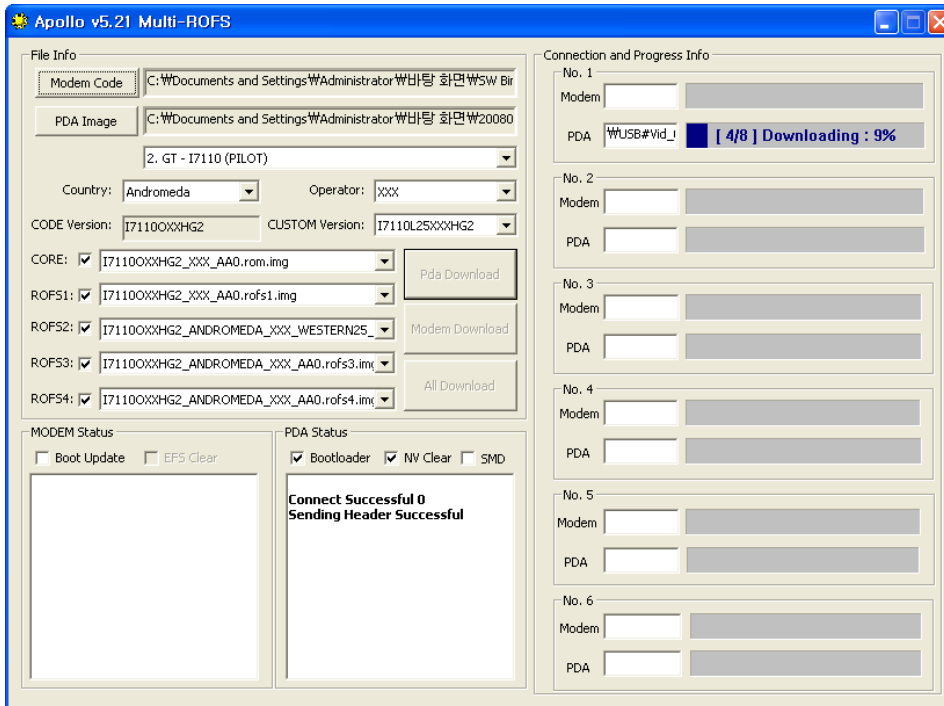
**All download** : Hold 4, 7 keys and power on -> Blinking "ALL DOWNLOAD" on purple screen

The screenshot shows the 'Apollo v5.21 Multi-ROFS' application window. It is divided into several sections:

- File Info:** Contains fields for Modem Code, PDA Image, Country (Andromeda), Operator (XXX), CODE Version (I7110OXXHG2), and CUSTOM Version (I7110L25XXHG2). It also lists CORE, ROFS1, ROFS2, ROFS3, and ROFS4 files with checkboxes and dropdown menus. Buttons for 'Pda Download', 'Modem Download', and 'All Download' are present.
- MODEM Status:** Includes checkboxes for 'Boot Update' and 'EFS Clear'.
- PDA Status:** Includes checkboxes for 'Bootloader', 'NV Clear', and 'SMD'.
- Connection and Progress Info:** A vertical list of six connection slots (No. 1 to No. 6). Each slot has a 'Modem' field (e.g., [COM5] for No. 1) and a 'PDA' field.

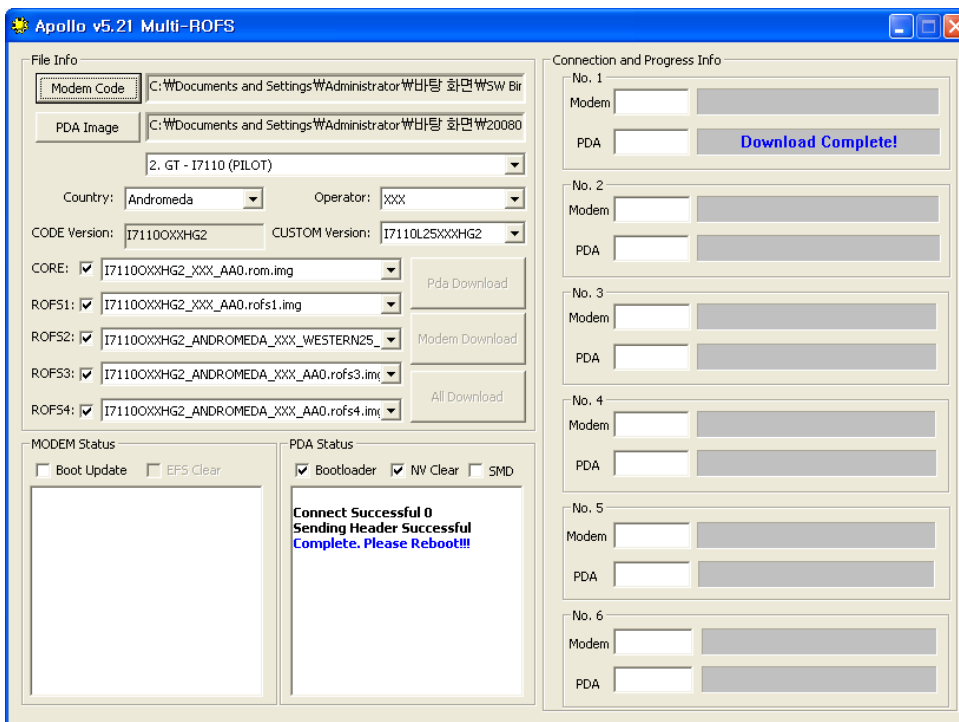
### Do NOT interrupt downloading process.

- Pda download time: About 1 min.
- Modem download time : About 2 min.
- All download time: About 3 min.



### Confirm Download Complete.

- GT-I7110 will be reboot when PDA download complete.



#### **4-2-7. Troubleshooting**

##### **Unable to install USB driver.**

Try another Download equipment

Try another GT-I7110.

Consult to R&D team.

##### **Download stops in the middle.**

Close and launch Apollo again then try again.

Check the battery is charged enough.

##### **Download doesn't start**

Check the connection between Apollo and a GT-I7110

Check the image that is not damaged.

Select an image and download again.

##### **Phone doesn't boot up after downloading.**

Check the release version of PDA and MODEM. They should be same.

Make sure that rom image, and then try to download.