Realtek Ameba1 Image Tool User Manual

This document define pin out of Ameba DEV.

Version 1.0

Table of Contents

_____

1 Purpose

Image Tool can help to generate the image file for applications. Besides, users can download image file with JATG & image tool.
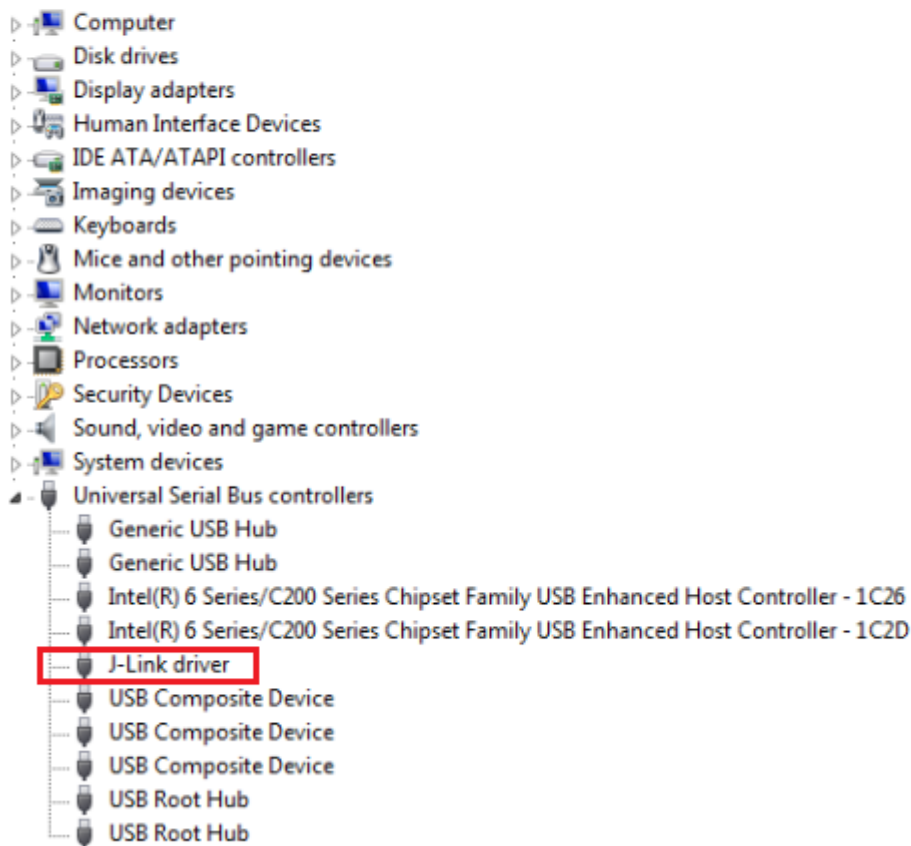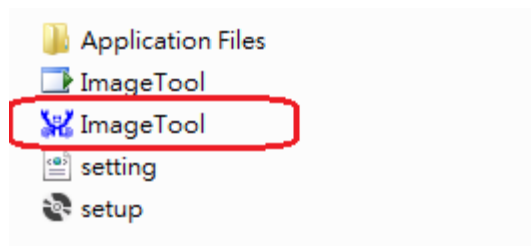
2 Environment Setup

2.1 Hardware Setup

- **Above Microsoft .NET Framework 3.5**
- **Ex. Win 7 32/64 bit**
- **Hardware:** JTAG(J-Link) have to be installed and connected correct and J-Link installed.
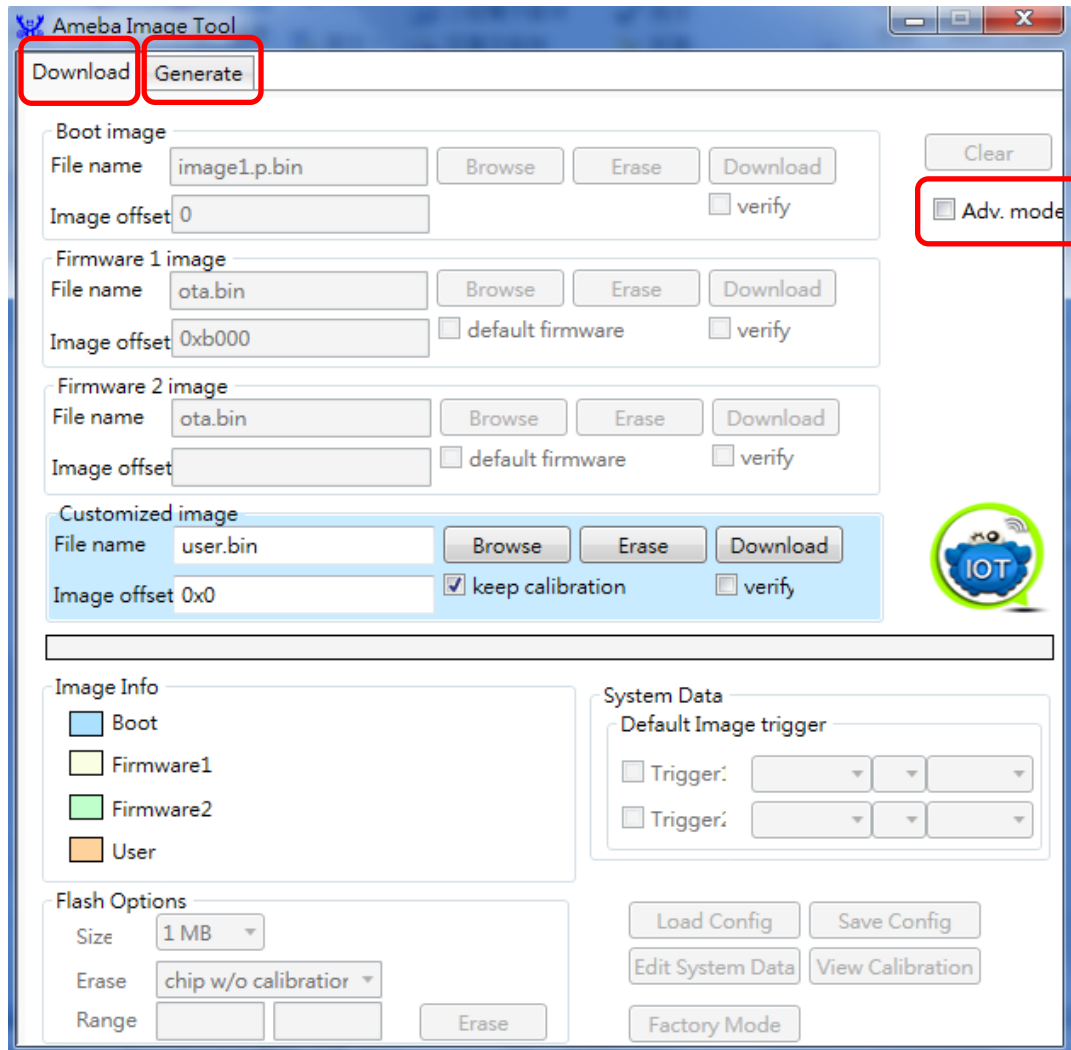

2.2 Software Setup:

Execute Image Tool.exe.

2.3 Advanced Software Setup:

Select Download mode or Generate(generating image) mode.

Select Adv. mode or not.

3 Download image

Make sure your J-Link can work.
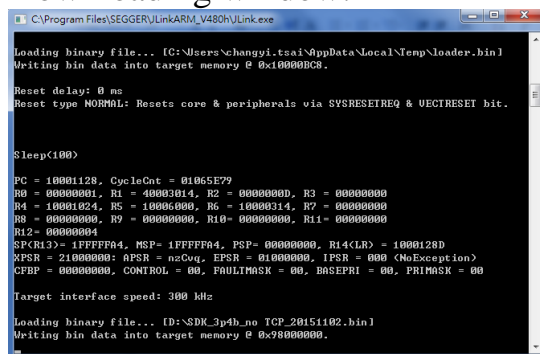
(1) Select the bin file(user.bin).

(2) Select keep calibration date or not.

(3) Select verify or not

(4) Click Erase (must do Erase first and then Download)
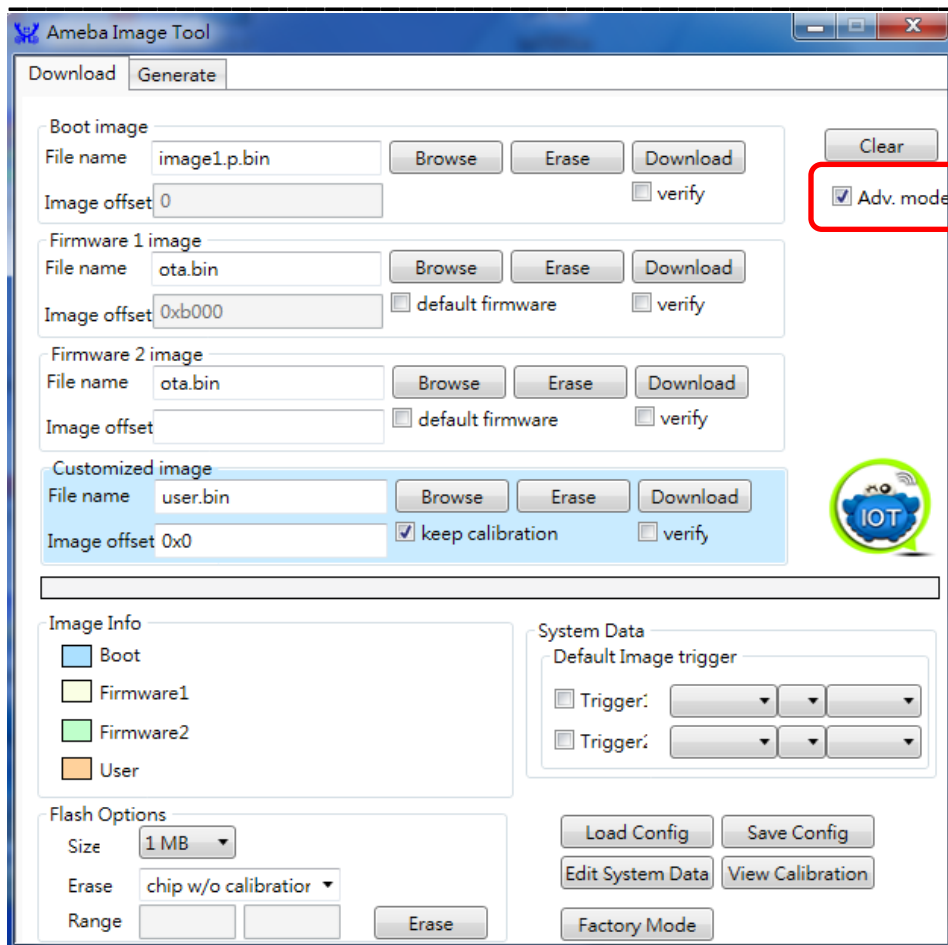
(5) Click Download
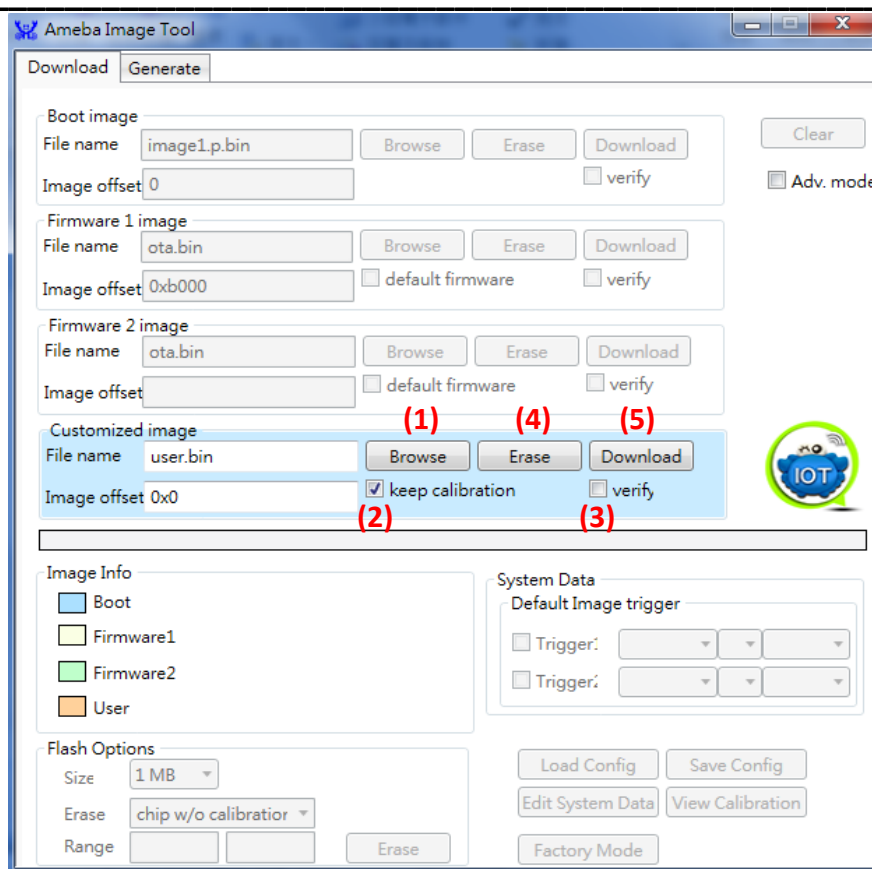
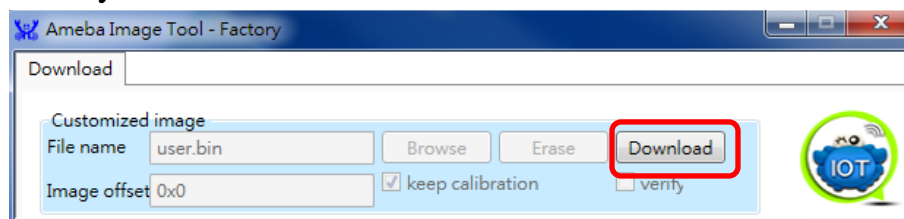Do not remove power supply when downloading image.
Downloading window:
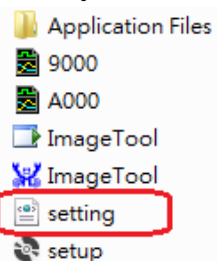

4 Set Factory Mode

Select Adv. mode & Factory mode.

Factory mode:

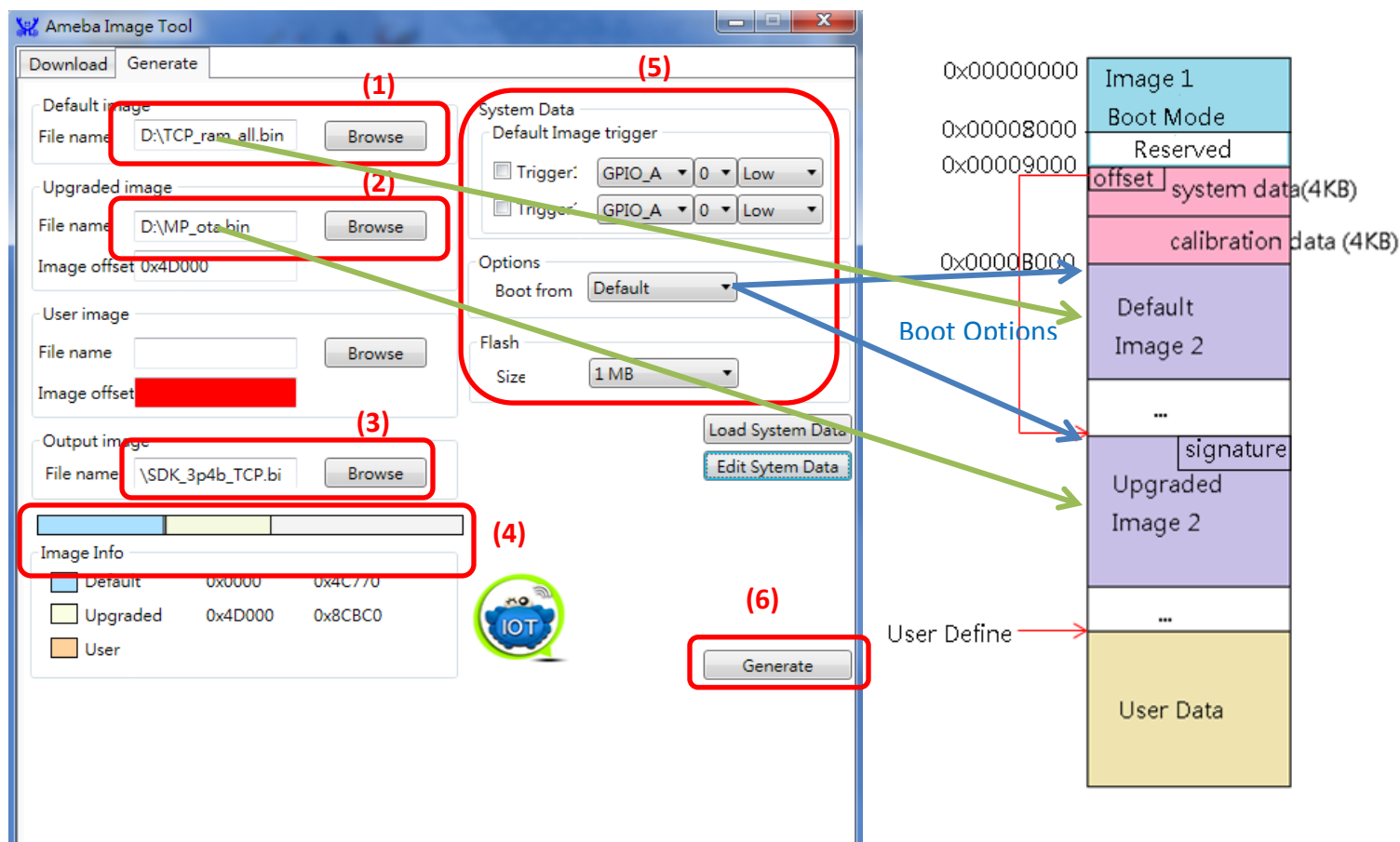Factory mode can be restored when the setting.xml file is deleted.

5 Generate Image

ram_all.bin and ota.bin path:

\\SDK\project\realtek_ameba1_va0_example\EWARM-RELEASE\Debug\Exe

[Doc] UM0034 Realtek Ameba-1 memory layout can be referred.

(1) Select ram_all.bin.

(2) Select ota.bin.

(3) Select Output image .

(4) Adjust offset and be sure that OTA is not overlapped.

(5) Setup System Data, boot options and flash size.

(6) Generate image.

6 Example

1) Generate ram_all.bin with normal driver (lib_wlan.a).

2) Generate ota.bin with MP driver(lib_wlan_mp.a).

3) Generate user.bin that Ameba can switch to normal mode and MP mode with AT commands #ATSC and #ATSR.

Customer can do RF calibration and write MAC address in MP mode but switch to normal mode when WiFi function test.

4) Customer can update user image when keep calibration is selected.