



IAC-IMX6-Kit Linux System Image Flashing Manual

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QIYANG TECHNOLOGY Co., Ltd
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Version Record

Ver.	Hardware Platform	Description	Date	Revisor
1.0	IAC-IMX6-Kit	Initial Version	2014-03-16	Wangwx
1.2	IAC-I.MX6-KIT	Add description while using script file to flash	2018-7-23	

Catalogue

Company Profile 5

I.Preparation..... 6

1.1 Boot Mode 6

1.2 Preparation & Image 6

II. Connect USB cable to flash image..... 8

Preface

Welcome to use the IAC-IMX6-Kit from Hangzhou Qiyang Intelligent Technology Co.,Ltd. This manual introduce how to burn the system image to the mainboard.

Before using this manual, please read ***IAC-I.MX6-KIT Linux User Manual*** carefully.



Company Profile

Zhejiang Qiyang Intelligent Technology Co., Ltd. locates at the bank of the beautiful West Lake. It is a high and new technology enterprise which is specializing in R&D, manufacture and sell embedded computer main board with high performance, low power consumption, low cost, small volume, and provides embedded hardware solutions.

We Offer:

- ◆ Research & develop, manufacture and sell embedded module products which have independent intellectual property rights, and cooperate with TI, ATMEL, Cirrus Logic, Freescale, and other famous processor manufacturers. It has launched a series of hardware products, such as ARM development board, ARM core module, ARM industrial board, sound/video decoding transmission platform, supporting tools and software resources which support user for their next embedded design.

- ◆ We give full play to the technical accumulation in ARM platform and Windows CE, Linux, Android operating system for many users providing custom service (OEM/ODM), to realize embedded products into the market stably, reliably and quickly.

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I .Preparation

1.1 Boot Mode

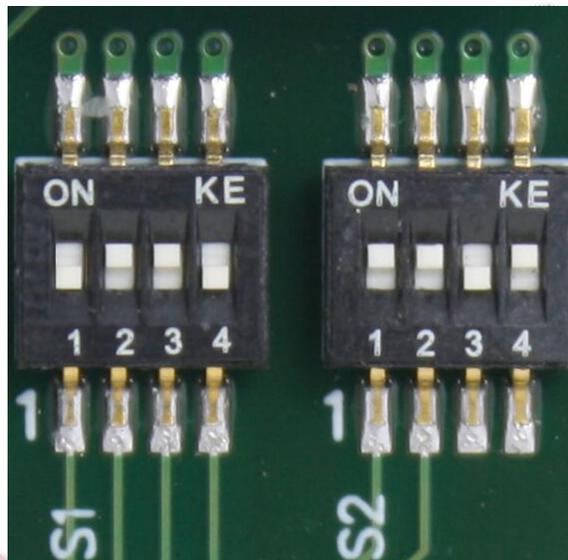
IMX6 supports various boot modes: SD card, EMMC. Default setting is EMMC. If you do not care about the boot mode, please skip this chapter.

Set SW on carrier board as below:

SD Card Boot : S1-S2 X010 0101

EMMC Boot: S1-S2 0110 1101

Default boot mode is EMMC, set the SW in carrier board as below:



1.2 Preparation & Image

Flashing tool: [Mfgtool], run in windows platform, save it to [CD\tools];

- ◆ Virtual Terminal Software: Such as window's super terminal, or [SecureCRT] in [CD\tools].

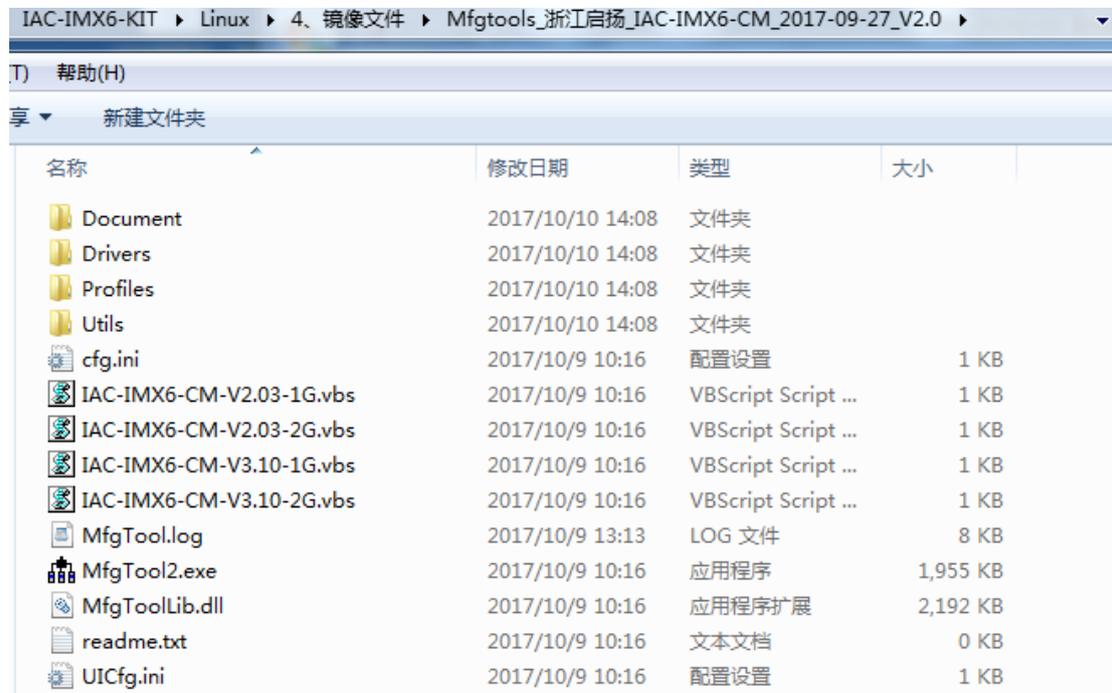
Or you can download the SecureCRT from the website:

<https://www.vandyke.com/download/securecrt/download.html>

- ◆ Image:ulmage;
- ◆ Image :u-boot.bin ;
- ◆ Image package :rootfs.tar.bz2
- ◆ IAC-I.MX6-KIT Dev. Kit
- ◆ Mini USB Downloading cable.

In normal situation, image file is flashed to EMMC, flashing tool's directory:
[Image File/Linux/DVD]

Directory locates in [Mfgtools_Zhejiang Qiyang_IAC-I.MX6-CM-XXXX/ Image File/Linux/DVD]



The image file which needs to be flashed into the i.mx6 dev. kit locates at this directory[Mfgtools-Rel-MX6Q_UPDATER\Profiles\MX6Q Linux Update\OS Firmware\files].

The image file has already be set into the MFGTOOL , so you can flash the image file into the mainboard directly.

Mfgtools_浙江启扬_IAC-IMX6-CM_2017-09-27_V2.0 ▸ Profiles ▸ Linux ▸ OS Firmware ▸ files

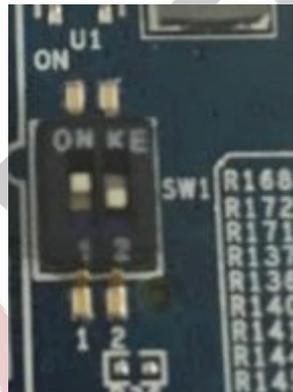
T) 帮助(H)

享 ▾ 新建文件夹

名称	修改日期	类型	大小
 IAC-IMX6-CM--rootfs.tar.bz2	2017/10/9 10:16	360压缩	96,648 KB
 IAC-IMX6-CM--uImage	2017/10/9 10:16	文件	4,076 KB
 IAC-IMX6-CM-V2.03-1G-u-boot.bin	2017/10/9 10:16	BIN 文件	423 KB
 IAC-IMX6-CM-V2.03-2G-u-boot.bin	2017/10/9 10:16	BIN 文件	423 KB
 IAC-IMX6-CM-V3.10-1G-u-boot.bin	2017/10/9 10:16	BIN 文件	423 KB
 IAC-IMX6-CM-V3.10-2G-u-boot.bin	2017/10/9 10:16	BIN 文件	423 KB

II. Connect USB cable to flash image

- ◆ Dial the SW1 on Core Board to [1,0].



- ◆ Connect Mini USB Downloading cable from USB PC to USB- OTG I.MX6 end (J13).

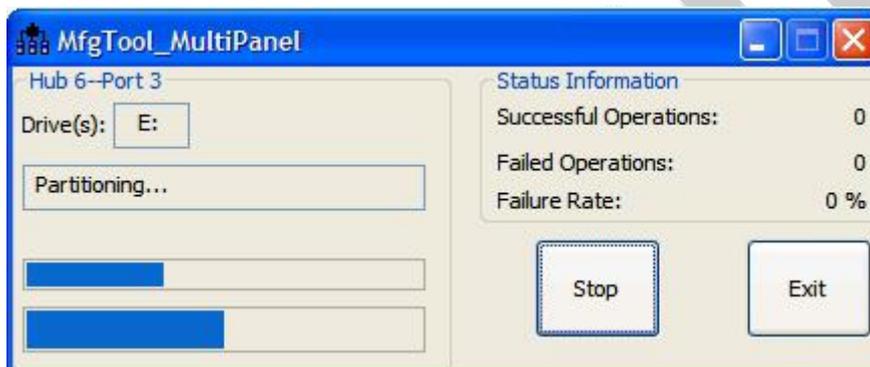
Then power on to the I.MX6 Dev. Kit.

- ◆ Next, run this executable file  IAC-IMX6-CM-V2.03-1G.vbs in MFGTool folder, as shown:

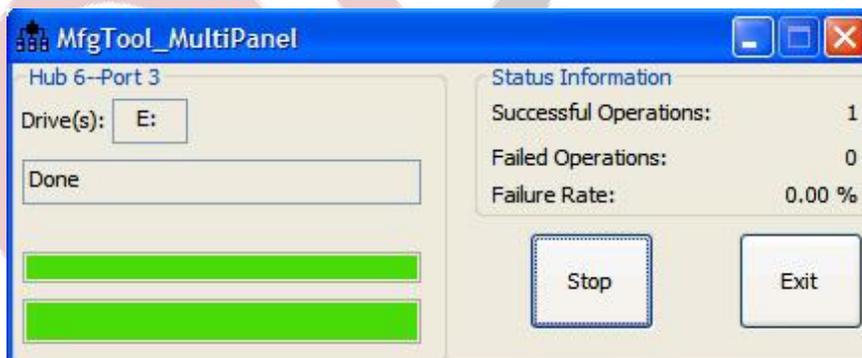


Note: Here , please selected the executable file on the sepcific model no. which you purchased to flash.

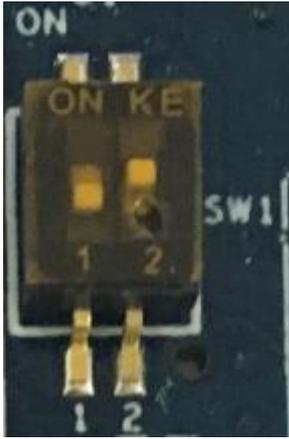
- ◆ Click [Start], MFGTool shall show the downloading status, it needs minutes to finish, please wait.



- ◆ Finish downloading as shown:



- ◆ Press[Stop];
- ◆ Then dial the SW1 on I.MX6 Core Board to [01] , it means the I.MX6 Dev. Kit is in boot status now.



- ◆ Power off, then restart, the I.MX6 Dev. Kit runs with new image file normally.

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