IAC-IMX8MM-Kit System Image Flashing Manual

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Version Update

Version	Hardware Platform	Description	Date	Author
1.0	IAC-IMX8MM-CM	First Version, Version Published	2020-04-15	zhujh

Catalogue

Preface

Welcome to use IAC-IMX8MM-Kit from Zhejiang Qiyang Intelligent Technology Co., Ltd.. This manual mainly introduces how to flash the system image into development kit.

Please read *IAC-IMX8MM-Kit User Manual* carefully before reading this manual.

Company Introduction

Zhejiang Qiyang intelligent technology co., LTD is located 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 mainboard and provides embedded hardware solutions. Products list includes：Cirrus Logic EP93xx serial motherboard, ARM9, ATMEL AT91SAM926x serial motherboard, FreeScale iMX serial motherboard, TI Davinci serial sound and video general development platform and so on. Linux2.4/2.6、WinCE5.0/6.0 OS can be operated.And according to customers' requirement, we provide customization service to develop multi-function embedded hardware systems.

Applying field refers to ：Industrial Control, Data Collection, Info-communications, medical equipment, video surveillance, vehicular entertainment and so on.
The demand of customer is the power for the development of company. Our company will perfect itself constantly, keeping mutual reciprocity with customers, common development, and striving to create greater value for our tomorrow.
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Ⅰ.**Preparation**

1.1 Boot modes introduction

IMX8MM support various boot modes, such as SD card, EMMC.

Default mode: EMMC.

Adopts electric resistance by default: 4.7K.

1.EMMC boot：

Core board (Default) soldering：R1135、R1129、R1133

Not soldering：R1117、R1127、R1131

2.SD card boot:

Core board (Default) soldering: R1117、R1127、R1131

Not soldering：R1135、R1129、R1133

1.2. Preparation and Image

◆ Flashing Tools：uuu.exe, run in Windows, save to [*to*ols/CD-ROM] ;

◆ Virtual terminal software：Hyper terminal- Windows owned, or save to [SecureCRT in tools/CD-ROM];

◆ Image [*flash.bin]*;

◆ Image [*fsl-imx8mm-qiyang.dtb]*;

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◆ Image*[Image]*;

◆ Image package[*rootfs.tar.bz2]*;

◆ IMX8MM Development Kit;

◆ Mini USB downloading cable *1.

Put image file to the directory

[*L4.14.98_2.0.0_ga_images_MX8MMEVK*].

Ⅱ. USB image file flashing

◆ Switch SW3 :DIP switch on the core board to 00;

◆ Connect USB downloading cable to PC's USB Host on the one side,

the another side connect to IMX8MM Board (J42) interface, then

power on.

◆ At the same time, there would be one more USB input device in the

resource manager detected.

◆ Enter into Windows command line:

◆ Enter into the directory which puts the flashing files;

◆ Input [uuu.exe kernel_emmc.uuu] to flash;

```
D:\imx8mini\L4.14.98_2.0.0_ga_images_MX8MMEVK>uuu.exe kernel_emmc.uuu
uuu (Universal Update Utility) for nxp imx chips -- libuuu_1.2.91-0-g3799f4d

Success 0    Failure 0

1:1    1/ 3    [                              ] SDPV: delay 1000
```

◆ Flashing is done;

```
D:\imx8mini\L4.14.98_2.0.0_ga_images_MX8MMEVK>uuu.exe kernel_emmc.uuu
uuu (Universal Update Utility) for nxp imx chips -- libuuu_1.2.91-0-g3799f4d

Success 1    Failure 0

1:1    24/24    [Done                         ] FBK: DONE

D:\imx8mini\L4.14.98_2.0.0_ga_images_MX8MMEVK>
```

◆ Switch the SW3 DIP switch on the core board to 01.

◆ Power off, then reboot, OK.

Ⅲ. SD Card Flashing

◆ Switch the SW3 DIP switch on the core board to 01.

◆ Connect Mirco-USB downloading cable to PC's USB Host on the one

side, the another side connect to IMX8MM Board (J42) interface, and

insert SD card into the SD card socket (J29), then power on.

◆ At the same time, there would be one more USB input device in the

resource manager detected.
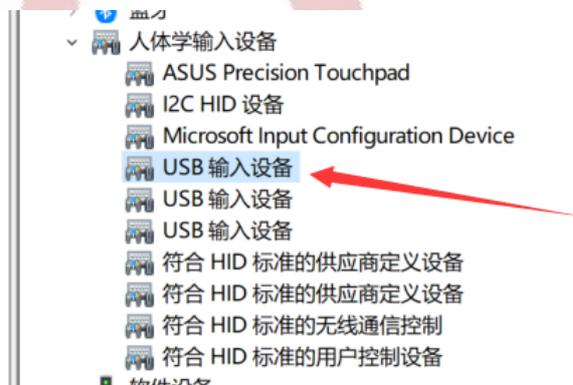
◆ Enter into Windows command line

◆ Enter into the directory which puts the flashing files;

◆ Input [uuu.exe kernel_emmc.uuu] to flash;

```
C:\Users\DELL\Desktop\IAC-IMX8MM-Kit\001 Linux\4、镜像文件\L4.14.98_2.0.0_ga_images_MX8MMEVK-20200811>uuu.exe kernel_sd.uuu
uuu (Universal Update Utility) for nxp imx chips -- libuuu_1.2.91-0-g3799f4d

Success 0    Failure 0

1:6   7/ 7   [                                ] FB: acmd booti ${loadaddr} ${initrd_addr} ${fdt_addr}
```
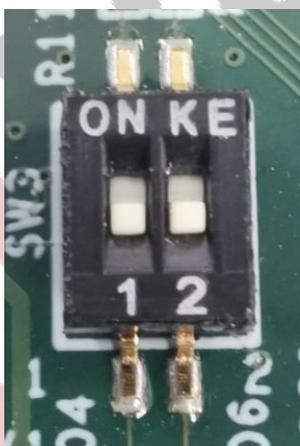
◆ Flashing is done.

```
C:\Users\DELL\Desktop\IAC-IMX8MM-Kit\001 Linux\4、镜像文件\L4.14.98_2.0.0_ga_images_MX8MMEVK-20200811>uuu.exe kernel_sd.uuu
uuu (Universal Update Utility) for nxp imx chips -- libuuu_1.2.91-0-g3799f4d

Success 1    Failure 0

1:5   22/22  [Done                            ] FBK: DONE
```

◆ Switch the DIP switch on Core Board to [00]

◆ Power off, then reboot, K.

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