

How to Download Image for PICO-IMX6

2017/06/08

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Configure Board

Please follow below step to configure your PICO-IMX6.

Step 1.

Set PICO-IMX6 to serial downloader mode.

2.4.1 Boot Mode Selection (JP30)



Internal Boot (Default)



Serial Downloader

Step 2.

Put the SD card to SD slot (eMMC can ignore) and plug the Micro USB to CN9.



Step 3.

Turn on the PICO-IMX6.



Mfgtool

Please follow below step to download the image.

Step 1.

Open the Mfgtool directory.

	📙 🗸 mfgtool_pico-imx6dl						- 0	×
檔案	常用 共用 檢視							~ ?
$\leftarrow \rightarrow$	✓ ↑ → #_PICO-IMX6DL	_Yocto > Release > Yocto_4.1.15_PICO_IMX6	_V1.0.0.0 > image >	mfgtool_pico-imx6	dl	ڻ ~	搜尋 mfgtool_pico-imx6dl	Q
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h On	neDrive - 研揚科技股份有限公司	MfgTool.log	2017/6/8 下午 05	文字文件	9 KB			
💻 本	機	MfgTool2.exe	2015/2/13 上午 0	應用程式	1,703 KB			
↓ •	下載	🏽 mfgtool2-yocto-mx6-sabresd-sd.vbs	2016/3/14 上午 0	VBScript 指令檔	1 KB			
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Step 2.

SD: Execute the "mfgtool2-yocto-mx6-sabresd-sd.vbs".

eMMC: Execute the "mfgtool2- yocto-mx6-sabresd -emmc.vbs".

nfgTool_MultiPanel (Library: 2.3.3)	— [
Hub 1Port 1	Status Information	
Drive(s):	Successful Operations:	0
	Failed Operations:	0
付合 HID 標準的敵間正義转直	Failure Rate:	0 %
	Start	Exit



Step 3.

Click "Start" button to download the image.

🚮 MfgTool_MultiPanel (Library: 2.3.3)	_		Х
Hub 1Port 1	Status Information		
Drive(s):	Successful Operations	:	0
	Failed Operations:		0
Jumping to OS image.	Failure Rate:		0 %
	Stop	Exit	t

Step 4.

When download successfully, please click "Stop" button and close the mfgtool.

MfgTool_MultiPanel (Library: 2.3.3)	_	×
Hub 1Port 1	Status Information	
Drive(s): G:	Successful Operations:	1
	Failed Operations:	0
Done	Failure Rate:	0.00 %
	Stop	Exit

Step 5.

Turn off the board.



Boot System

Step 1.

Set up PICO-IMX6 to internal boot mode.

2.4.1 Boot Mode Selection (JP30)





Internal Boot (Default)

Serial Downloader

Step 2.

Set boot device to Micro SD or eMMC.

2.6 Boot Configuration Selection Switch (SW1)

This switch allows users to manually customize boot configurations for their needs.



Boot Device	Bit 1	Bit 2	Bit 3	Bit 4	
Micro SD	OFF	OFF	ON	OFF	Default
eMMC	ON	ON	ON	ON	



Step 3.

Connect the debug port to your PC and open serial terminal (Putty or Tera Term).

Step 4.

Turn on the PICO-IMX6 and boot.

	r		~
File Filt Setur Control Window Help			
INIT: Entering runlevel: 5 Configuring network interfaces fec 2188000.ethernet eth0: Freescale FEC PHY driver [Generic PHY] (mii bus:phy addr=2188000.et	therne	t:00,	^
irq=-1)			
IPv6: ADDRCONF(NETDEV_UP): eth0: link is not ready			
done.			
Starting Xserver			
Starting system message bus: dbus.			
Starting Connection Manager			
random: nonblocking pool is initialized			
Starting Dropbear SSH server: dropbear.			
Starting rpcbind daemondone.			
starting statd: done			
Starting advanced power management daemon: No APM support in kernel (failed.)			
Starting atd: OK			
exportfs: can't open /etc/exports for reading			
NFS daemon support not enabled in kernel			
Starting system log daemon0			
Starting kernel log daemon0			
* Starting Avahi mDNS/DNS-SD Daemon: avahi-daemon [ok]			
Starting Telephony daemon			
Starting Linux NFC daemon			
Starting crond: OK			
Starting autohdmi:			
Running local boot scripts (/etc/rc.local).			
Freescale i.MX Release Distro 4.1.15-2.0.0 imx6dlsabresd /dev/ttymxc0			
imx6dlsabresd login: fec 2188000.ethernet eth0: Link is Up - 1Gbps/Full - flow control rx/tx IPv6: ADDRCONF(NETDEV_CHANGE): eth0: link becomes ready			
Freescale i.MX Release Distro 4.1.15-2.0.0 imx6dlsabresd /dev/ttymxc0			
imx6dlsabresd login: root root@imx6dlsabresd:~#			~



Note

How to change display

Step 1.

Turn on the PICO-IMX6 and boot.

Step 2.

Press any key on U-Boot



Step 3.

1. Boot up the system by HDMI (default):

```
=> setenv pri_dis video=mxcfb0:dev=hdmi,1920x1080M@60,if=RGB24
```

Boot up the system by LVDS:

```
=> setenv pri_dis video=mxcfb0:dev=ldb,if=RGB666
```



2. Save environment

=> saveenv

3. Reboot

=> reset