

## How to Restore Yocto Linux to eMMC on EBOX-IMX8MM

Restore from Linux OS PC see Page 1~2

Restore from Windows 10 OS PC see Page 3~4

### Restore Yocto Linux from Linux PC to EBOX-IMX8MM

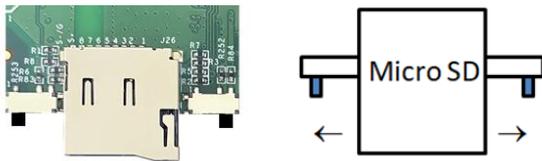
► Preparation:

1. Jumper switching tool: Tweezers, Precision screwdriver, SIM card pin or Paperclip.
2. Yocto OS image (Contact [info@compactpc.com.tw](mailto:info@compactpc.com.tw))
3. 64-bit Linux OS PC x1 (Using virtual machine is not recommended)
4. EBOX-IMX8MM Mini PC x1.
5. Micro USB to USB cable x1 (hereafter called Cable A)  
For connecting EBOX-IMX8MM (Micro USB) with Linux PC (USB).

► Write the image to the eMMC on EBOX-IMX8MM

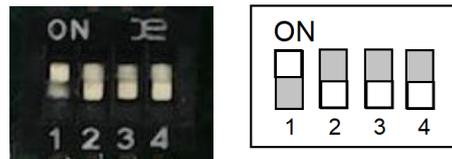
1. Use a jumper switching tool to change EBOX jumper setting for software download mode.

Micro SD version EBOX-IMX8MM jumpers



Two jumpers set outward

SD Card version EBOX-IMX8MM jumpers



Jumper 1 set to ON alone

2. Turn on Linux PC and unzip Yocto OS image file.
3. Open terminal on Linux PC, use cd command and change to the unzipped image directory.
4. Under the image directory, execute chmod a+x uuu to enable uuu as executable command.
5. Execute “sudo ./uuu uuu.auto”, and see Wait for Known USB Device Appear...  
connect EBOX Mini PC (Micro USB) to Windows PC (USB) with Cable A.  
(without attaching EBOX with power supply)

```
dmp@dmp-Ubuntu:~/Desktop/eb-imx8mm-2g-yocto$ sudo ./uuu uuu.auto
[sudo] password for dmp:
sudo: ./uuu: command not found
dmp@dmp-Ubuntu:~/Desktop/eb-imx8mm-2g-yocto$ sudo chmod a+x uuu
dmp@dmp-Ubuntu:~/Desktop/eb-imx8mm-2g-yocto$ sudo ./uuu uuu.auto
uuu (Universal Update Utility) for nxp imx chips -- libuuu_1.2.135-0-gacaf035

Wait for Known USB Device Appear...
```

6. Linux PC will execute copying Yocto OS image file to EBOX Mini PC.

```
dmp@dmp-Ubuntu:~/Desktop/eb-imx8mm-2g-yocto$ sudo ./uuu uuu.auto
[sudo] password for dmp:
sudo: ./uuu: command not found
dmp@dmp-Ubuntu:~/Desktop/eb-imx8mm-2g-yocto$ sudo chmod a+x uuu
dmp@dmp-Ubuntu:~/Desktop/eb-imx8mm-2g-yocto$ sudo ./uuu uuu.auto
uuu (Universal Update Utility) for nxp imx chips -- libuuu_1.2.135-0-gacaf035

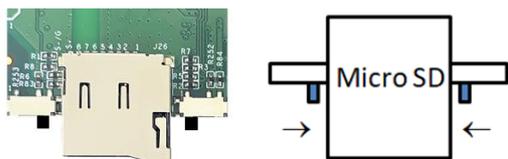
Success 1      Failure 0

1:1          8/ 8 [Done]          ] FB: done
dmp@dmp-Ubuntu:~/Desktop/eb-imx8mm-2g-yocto$ [=====] SDPV: jump
```

7. After copying process completed, remove Cable A from EBOX.

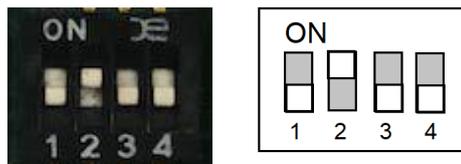
8. Use jumper switching tool to change jumpers back to internal boot mode.

Micro SD version jumpers



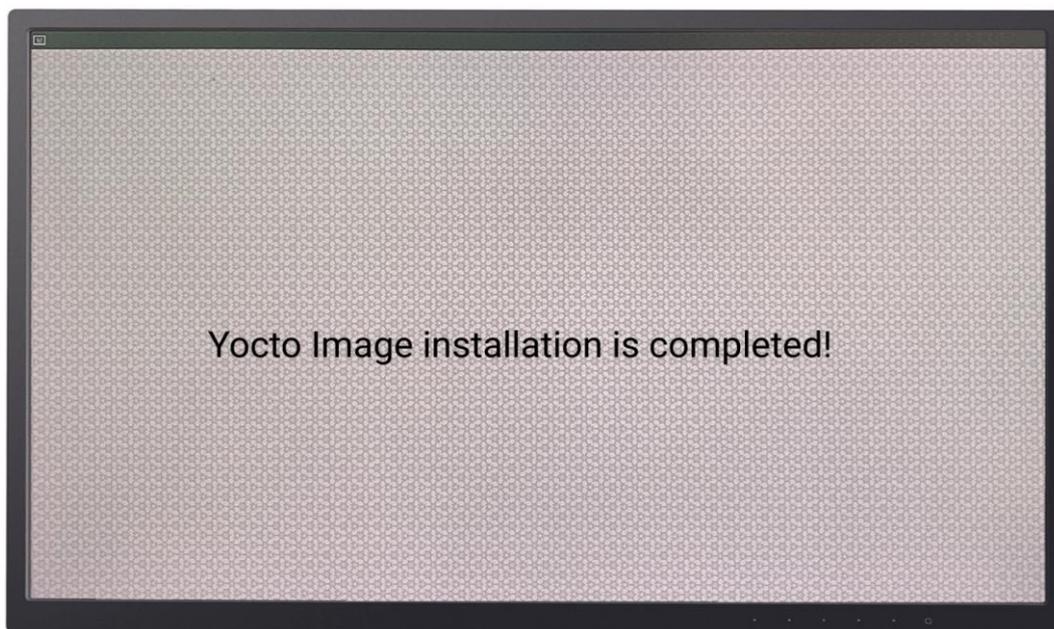
Two jumpers set inward

SD Card version jumpers



Jumper 2 set to ON

9. Reboot EBOX-IMX8MM and see Yocto desktop.



### Restore the Yocto Image from Windows 10 PC to EBOX-IMX8MM

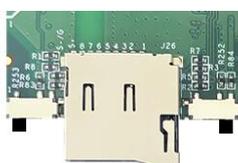
► Preparation:

1. Jumper switching tool: Tweezers, Precision screwdriver, SIM card pin or Paperclip.
2. Yocto OS image (Contact [info@compactpc.com.tw](mailto:info@compactpc.com.tw))
3. 64-bit Windows 10 PC x1 (Using virtual machine is not recommended)
4. EBOX-IMX8MM Mini PC x1.
5. Micro USB to USB cable x1 (hereafter called Cable A)  
For connecting EBOX-IMX8MM (Micro USB) with Windows 10 PC (USB).

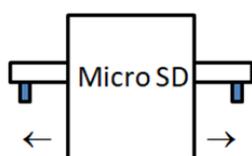
► Write the image to the eMMC on EBOX-IMX8MM.

1. Use a jumper switching tool to change EBOX jumper setting for software download mode.

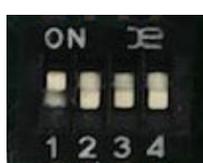
Micro SD version EBOX-IMX8MM jumpers



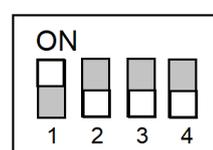
Two jumpers set outward



SD Card version EBOX-IMX8MM jumpers



Jumper 1 set to ON alone



2. Turn on Windows 10 PC and unzip Yocto OS image file.
3. Open terminal as Administrator , use cd command and move to unzipped folder directory.
4. Execute “uuu.exe uuu.auto” command and press Enter, after Wait for Known USB Device Appear... connect EBOX (without attaching power supply) to Windows PC with Cable A.

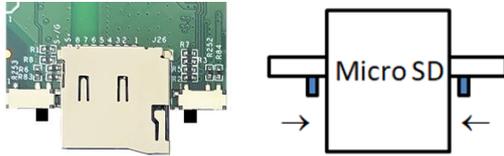
```
C:\WINDOWS\system32>cd C:\Downloads\eb-imx8mm-2g-yocto
C:\Downloads\eb-imx8mm-2g-yocto>uuu.exe uuu.auto
uuu (Universal Update Utility) for nxp imx chips -- libuuu_1.3.191-0-g4fe24b9
Wait for Known USB Device Appear...
```

5. Windows PC will execute copying Android 9 OS image file to EBOX Mini PC.
6. Restore process completed as below:

```
C:\WINDOWS\system32>cd C:\Downloads\eb-imx8mm-2g-yocto
C:\Downloads\eb-imx8mm-2g-yocto>uuu.exe uuu.auto
uuu (Universal Update Utility) for nxp imx chips -- libuuu_1.3.191-0-g4fe24b9
Success 1 Failure 0
2:1 8/ 8 [Done] FB: done
```

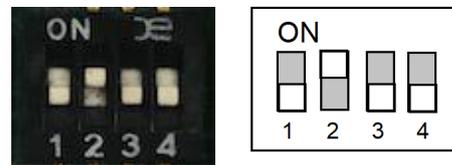
- 7. After copying process completed, remove Cable A from EBOX Mini PC.
- 8. Use jumper switching tool to change jumpers back to internal boot mode.

Micro SD version jumpers



Two jumpers set inward

SD Card version jumpers



Jumper 2 set to ON alone

- 9. Reboot EBOX-IMX8MM and see Yocto desktop.

