

# Yocto Pre-built Image Installation Guide for EDM1-FAIRY

Rev 1.1 20150327



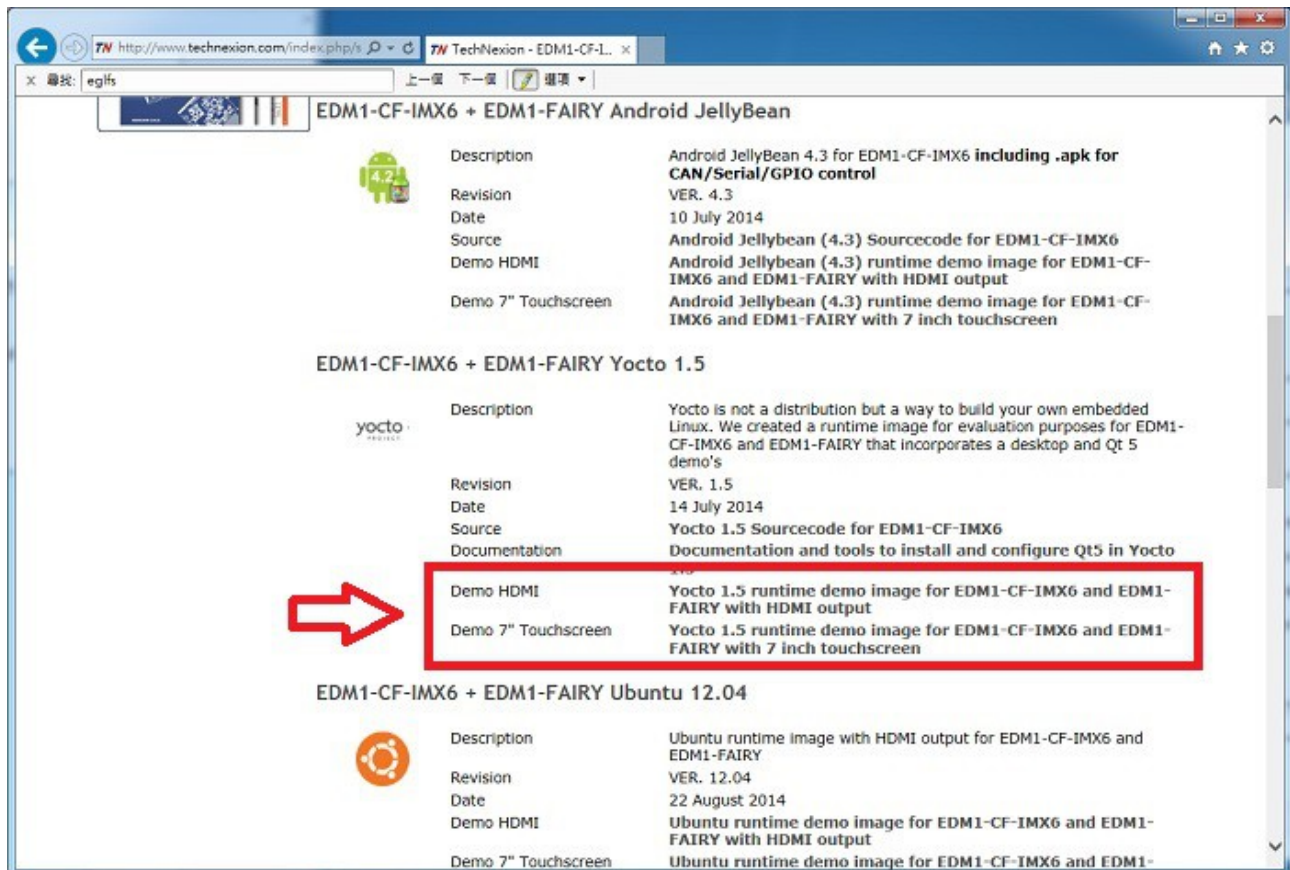
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## 1. Download Yocto Pre-Built image

Please visit Technexion “edml-cf-imx6” download page:

<http://www.technexion.com/index.php/support/edm/edml-cf-imx6>



The screenshot shows a web browser window displaying the Technexion website. The page title is "EDM1-CF-IMX6 + EDM1-FAIRY Android JellyBean". Below the title, there are three sections: "EDM1-CF-IMX6 + EDM1-FAIRY Android JellyBean", "EDM1-CF-IMX6 + EDM1-FAIRY Yocto 1.5", and "EDM1-CF-IMX6 + EDM1-FAIRY Ubuntu 12.04". Each section contains a table with details about the software. A red box highlights the "Demo HDMI" and "Demo 7\"

EDM1-CF-IMX6 + EDM1-FAIRY Android JellyBean	
Description	Android JellyBean 4.3 for EDM1-CF-IMX6 including .apk for CAN/Serial/GPIO control
Revision	VER. 4.3
Date	10 July 2014
Source	Android Jellybean (4.3) Sourcecode for EDM1-CF-IMX6
Demo HDMI	Android Jellybean (4.3) runtime demo image for EDM1-CF-IMX6 and EDM1-FAIRY with HDMI output
Demo 7" Touchscreen	Android Jellybean (4.3) runtime demo image for EDM1-CF-IMX6 and EDM1-FAIRY with 7 inch touchscreen

EDM1-CF-IMX6 + EDM1-FAIRY Yocto 1.5	
Description	Yocto is not a distribution but a way to build your own embedded Linux. We created a runtime image for evaluation purposes for EDM1-CF-IMX6 and EDM1-FAIRY that incorporates a desktop and Qt 5 demo's
Revision	VER. 1.5
Date	14 July 2014
Source	Yocto 1.5 Sourcecode for EDM1-CF-IMX6
Documentation	Documentation and tools to install and configure Qt5 in Yocto
Demo HDMI	Yocto 1.5 runtime demo image for EDM1-CF-IMX6 and EDM1-FAIRY with HDMI output
Demo 7" Touchscreen	Yocto 1.5 runtime demo image for EDM1-CF-IMX6 and EDM1-FAIRY with 7 inch touchscreen

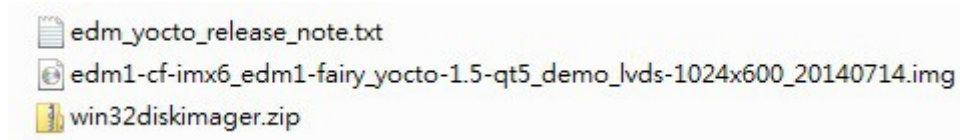
  

EDM1-CF-IMX6 + EDM1-FAIRY Ubuntu 12.04	
Description	Ubuntu runtime image with HDMI output for EDM1-CF-IMX6 and EDM1-FAIRY
Revision	VER. 12.04
Date	22 August 2014
Demo HDMI	Ubuntu runtime demo image for EDM1-CF-IMX6 and EDM1-FAIRY with HDMI output
Demo 7" Touchscreen	Ubuntu runtime demo image for EDM1-CF-IMX6 and EDM1-

Select the download link of Yocto pre-built image for HDMI or 7-inch LVDS display panel.

## 2. Make iNand installer

Unzip the file you download.



There are three files:

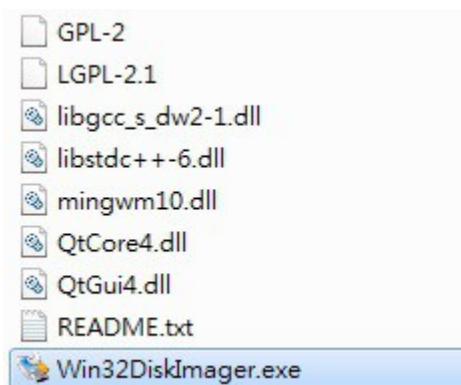
edm\_yocto\_release\_note.txt

edm1-cf-imx6\_edm1-fairy\_yocto-1.5-qt5\_demo\_lvds-1024x600\_2014xxxx.img

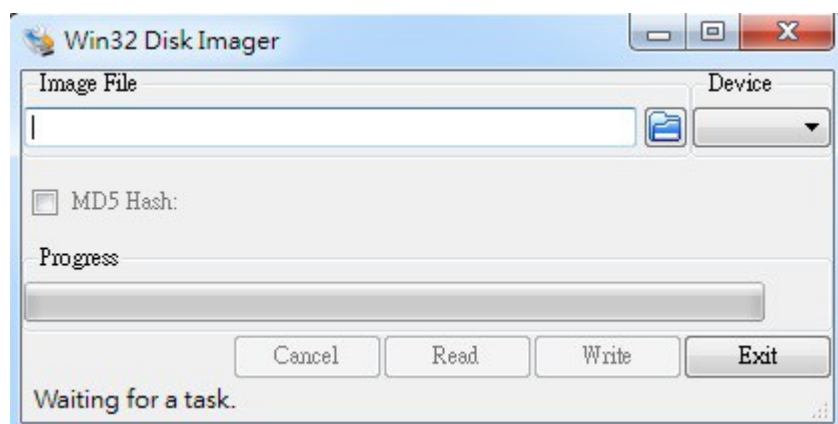
win32diskimager.zip

### If your PC runs Windows OS:

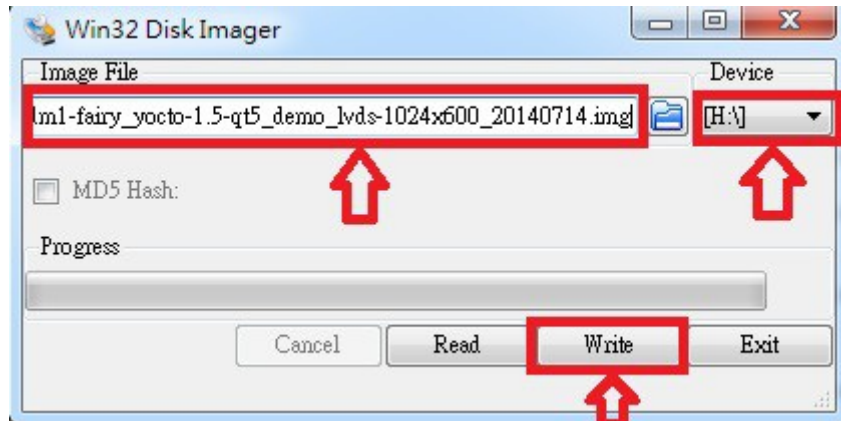
Please unzip the win32diskimager.zip:



Execute **Win32DiskImager.exe**.



Prepare a microSD card. Insert this microSD card into the card reader of PC.



Choose microSD you insert as “Device”.

Select the “**edml-cf-imx6\_edml-fairy\_yocto-1.5-qt5\_demo\_lvds-1024x600\_2014xxxx.img**” as “Image File”.

Then, press “Write”. **Win32DiskImager** will flash yocto installer image into microSD card.

### **If your PC runs Ubuntu OS:**

Prepare a microSD card. Insert this microSD card into the card reader of PC.

Use 'dd' command to flash yocto installer image into microSD card.

```
$ sudo dd if=edml-cf-imx6_edml-fairy_yocto-1.5-qt5_demo_lvds-1024x600_2014xxxx.img  
of=/dev/sd<partition> bs=1M && sync
```

Or

Use “imageWriter” tool.

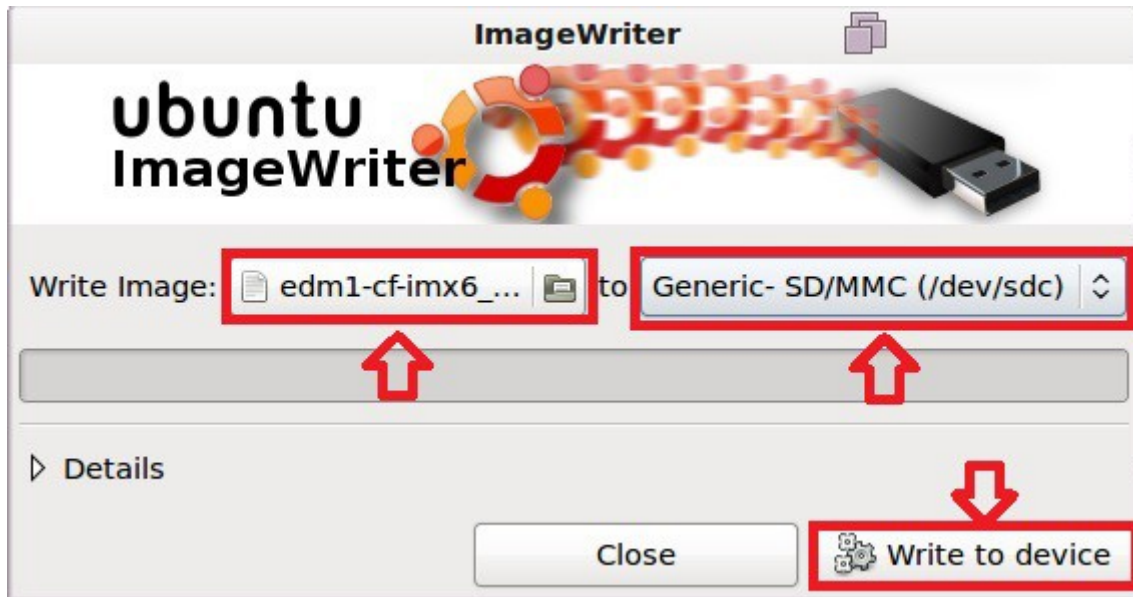
<https://apps.ubuntu.com/cat/applications/precise/usb-imagewriter/>

Install “imageWriter”:

```
sudo apt-get install usb-imagewriter
```

Execute “imageWriter”:

```
sudo imagewriter
```



Choose microSD you insert as “Device”.

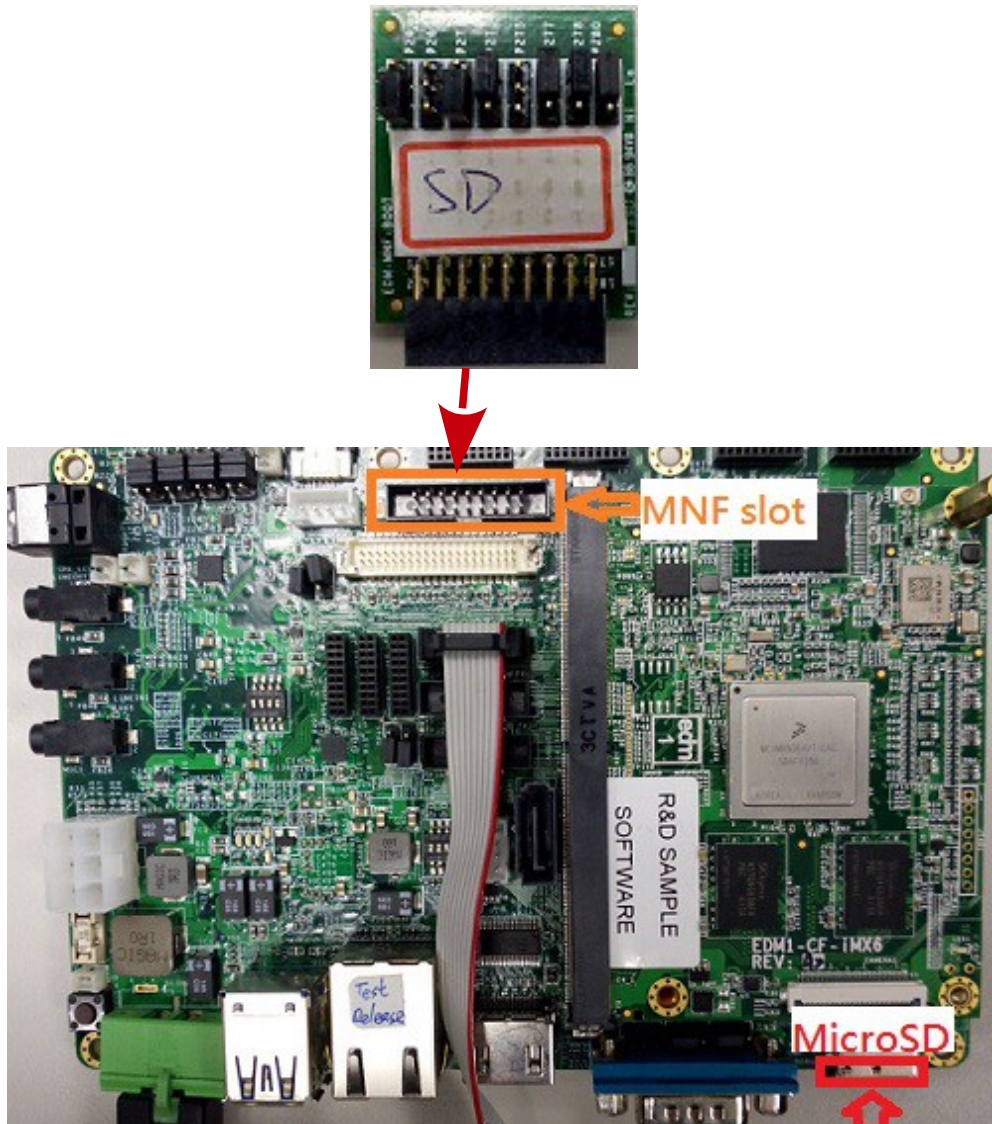
Select the “**edm1-cf-imx6\_edm1-fairy\_yocto-1.5-qt5\_demo\_lvds-1024x600\_2014xxxx.img**” as “Write Image”.

Then, press “Write to device”. **imagewriter** will flash Yocto installer image into microSD card.

### 3. Run iNand installer image on EDM1-Fairy board

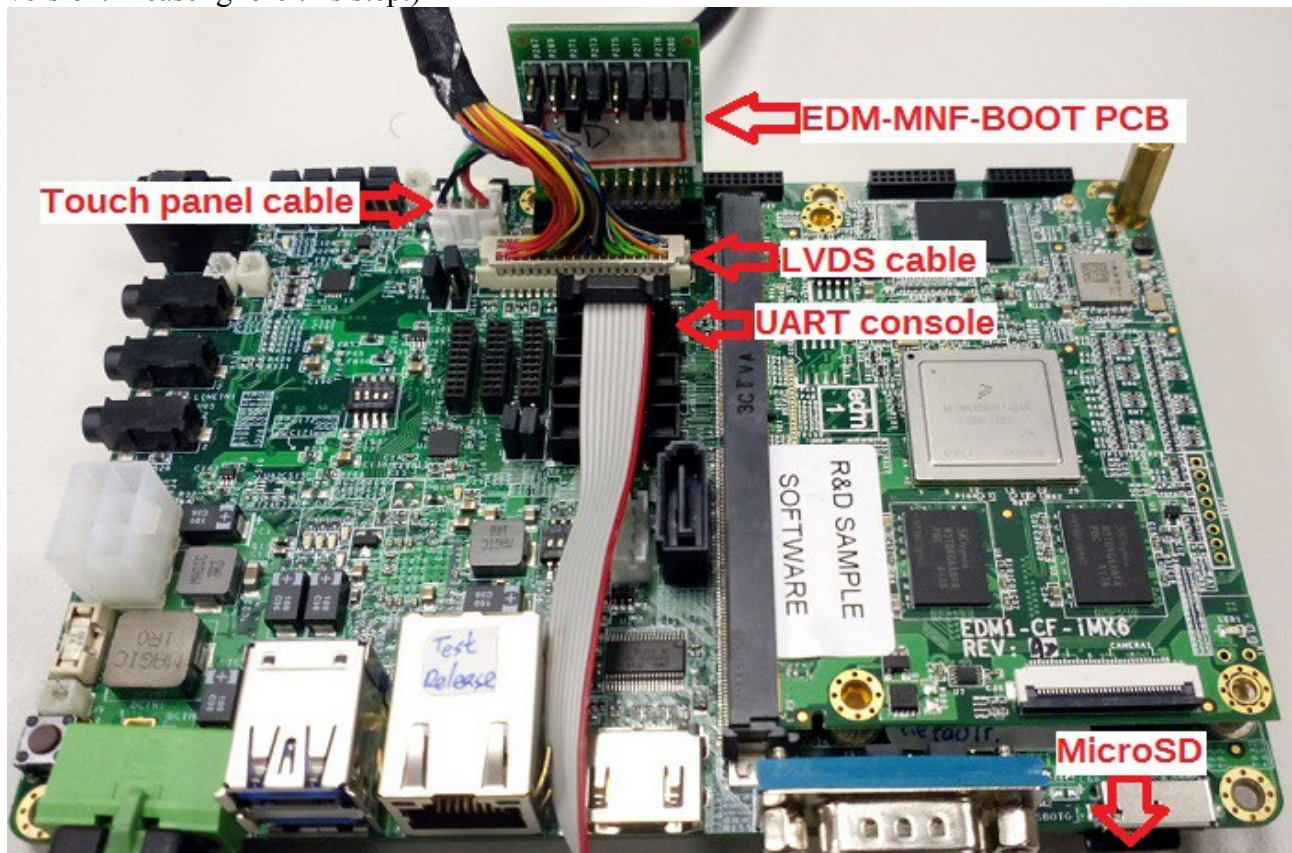
Run iNand installer image will install OS image into iNand of CPU module.  
Plug “**EDM-MNF-BOOT PCB**” into MNF slot on EDM1-Fairy baseboard.  
It will cause EDM1-Fairy boot from external microSD card instead of iNand.  
Then, insert MicroSD card with yocto installer image inside into EDM1-Fairy baseboard.

**EDM-MNF-BOOT PCB**



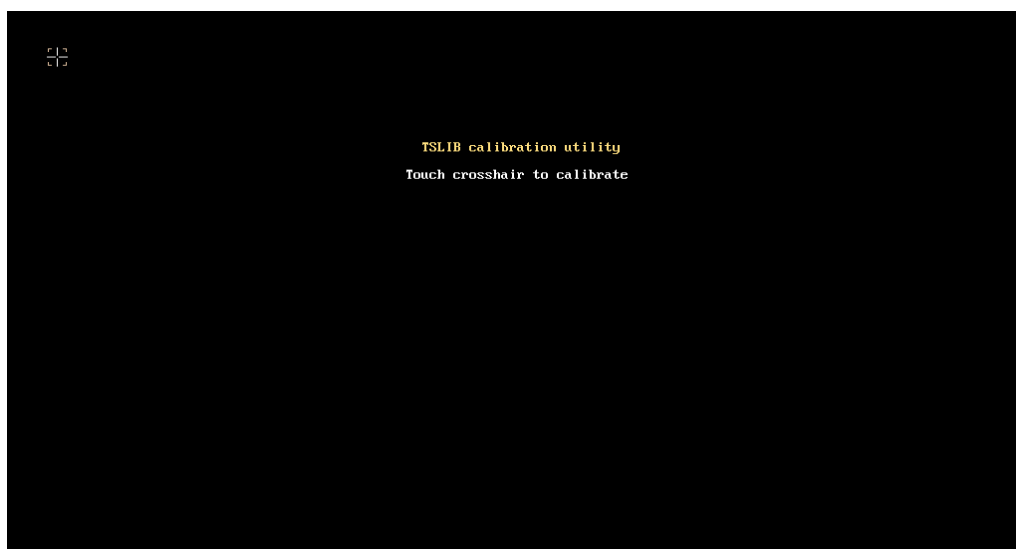


Connect LVDS display and touch screen cable.(If the Yocto pre-built image you download is HDMI version. Please ignore this step.)



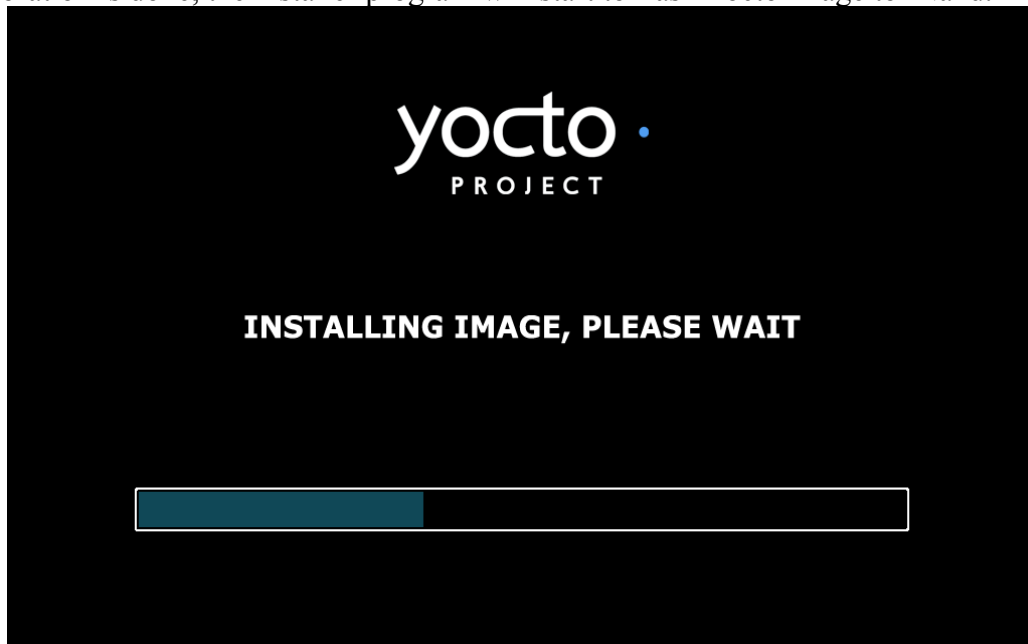
Then, power on EDM1-Fairy board.

If the touch panel is resistive touch panel, installer program will enter into calibration mode first. (Capacitive touch panel(eGalax multitouch panel) doesn't require to be calibrated.)

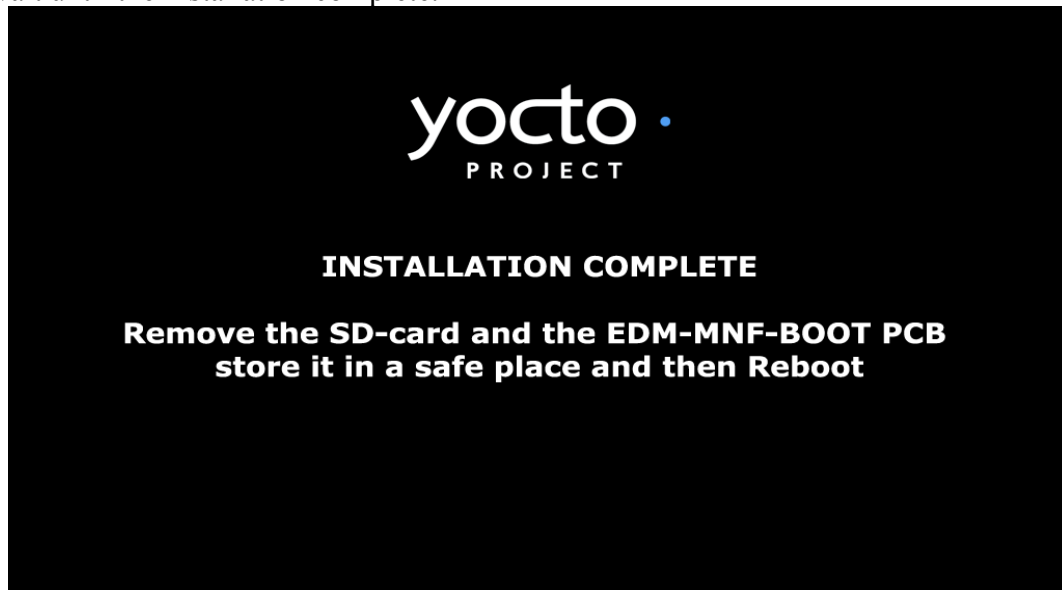




After calibration is done, the installer program will start to flash Yocto image to iNand.



Please wait until the installation complete.



**Please remove microSD card and “EDM-MNF-BOOT PCB” !!!  
After removing “EDM-MNF-BOOT PCB”, EDM1-Fairy board will boot from iNand.**

Then, reboot.  
You will see Yocto booting message.

