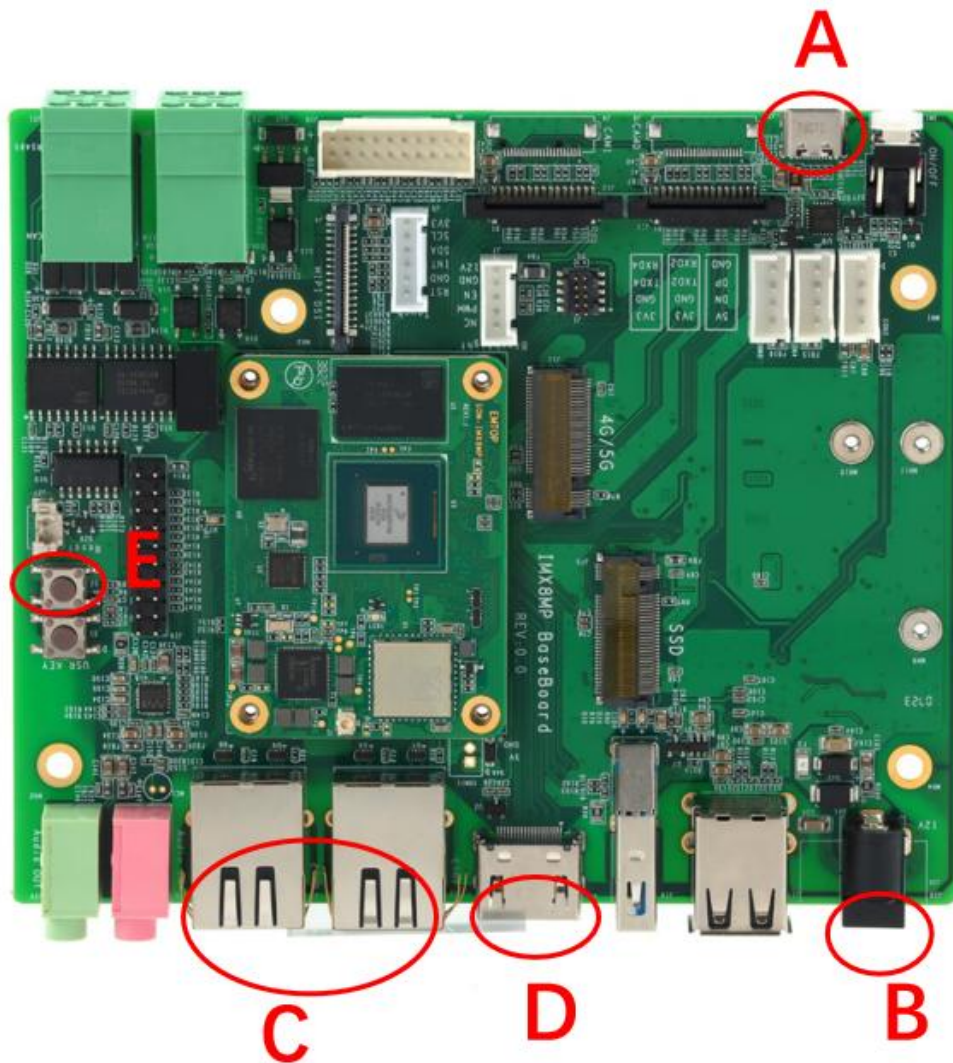


## Quick Start Guide



## Revision History

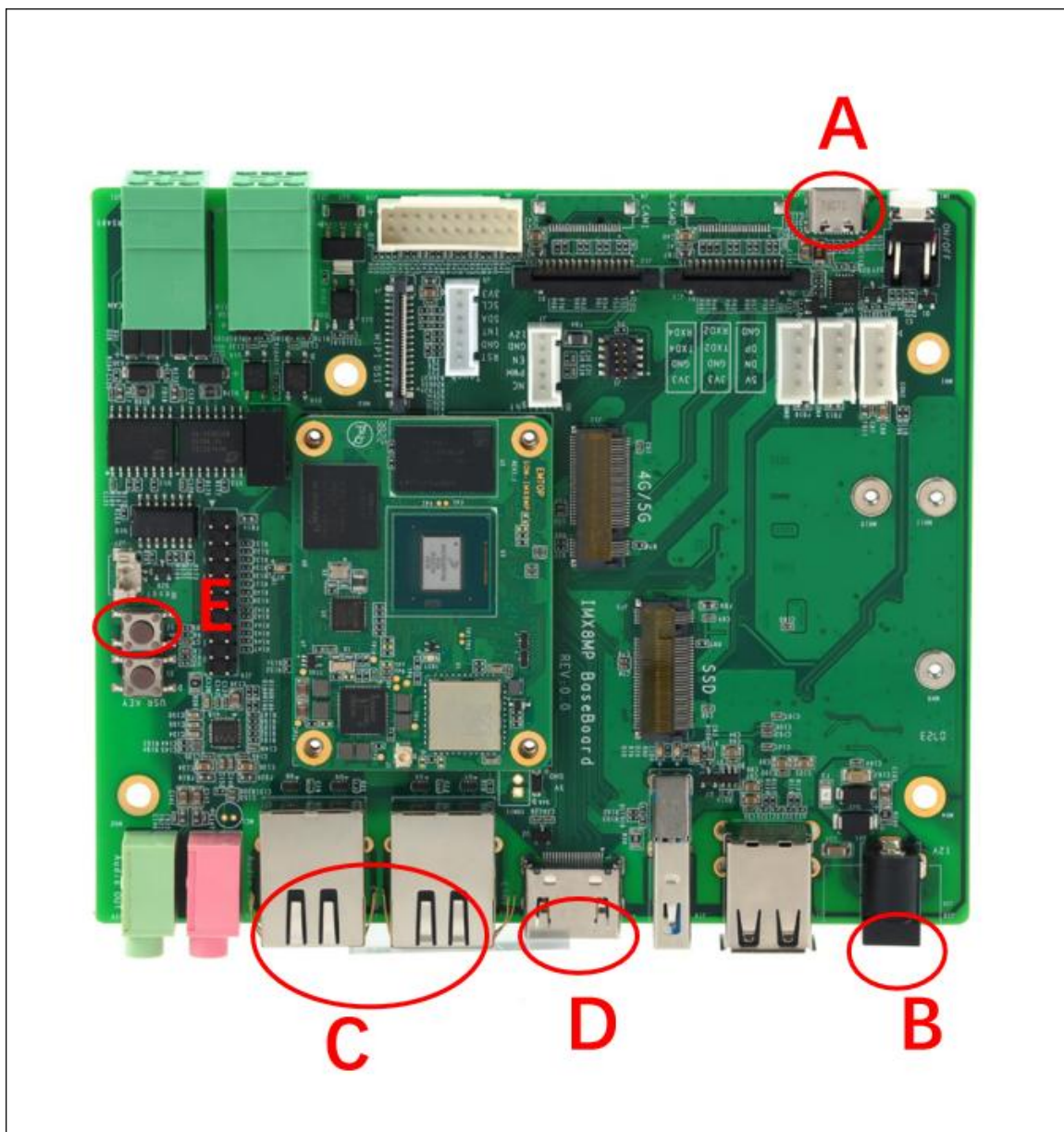
Date	Version	Description
2023/06/13	V1.0	First Released
2023/07/01	V1.1	Check And Correction

## 1.Prepare

SBC-IMX8MP Support SSH or Serial to get debug information

- 1xSBC-IMX8MP Must
- 1x12V@2A Power Adapter Must
- 1xUSB Type C Cable (Connect to Serial Interface ) Must
- PC(Windows with Putty or other serial /SSH Tool)
- (Option) 1xHDMI Display, 1xEthernet Cable,1xMIPI-DSI Display

## 2.Hardware Connection



<b>A</b>	Debug Serial, Type-C Interface, Connector To your PC, Drivers will auto install.
<b>B</b>	12V@2A Power Adapter
<b>C</b>	Option, Connect Ethernet cable to your router if you use SSH
<b>D</b>	Option, Connect to your hdmi display
<b>E</b>	If you wish to boot from tf card, Press S2 Reset before Power up

### 3. Make A Bootable TF Card

Download system Image from below link:

[https://www.jianguoyun.com/p/DRcrVQYQ7L\\_aCRiR7ocFIAA](https://www.jianguoyun.com/p/DRcrVQYQ7L_aCRiR7ocFIAA)

(Password : 4x4fhu)



Get the system image from Image directory, named as

**IMX8MP-BASEBOARD-Yocto-SD-REVXX.img.xz**, unxz it and get the raw image **IMX8MP-BASEBOARD-Yocto-SD-REVXX.img**.

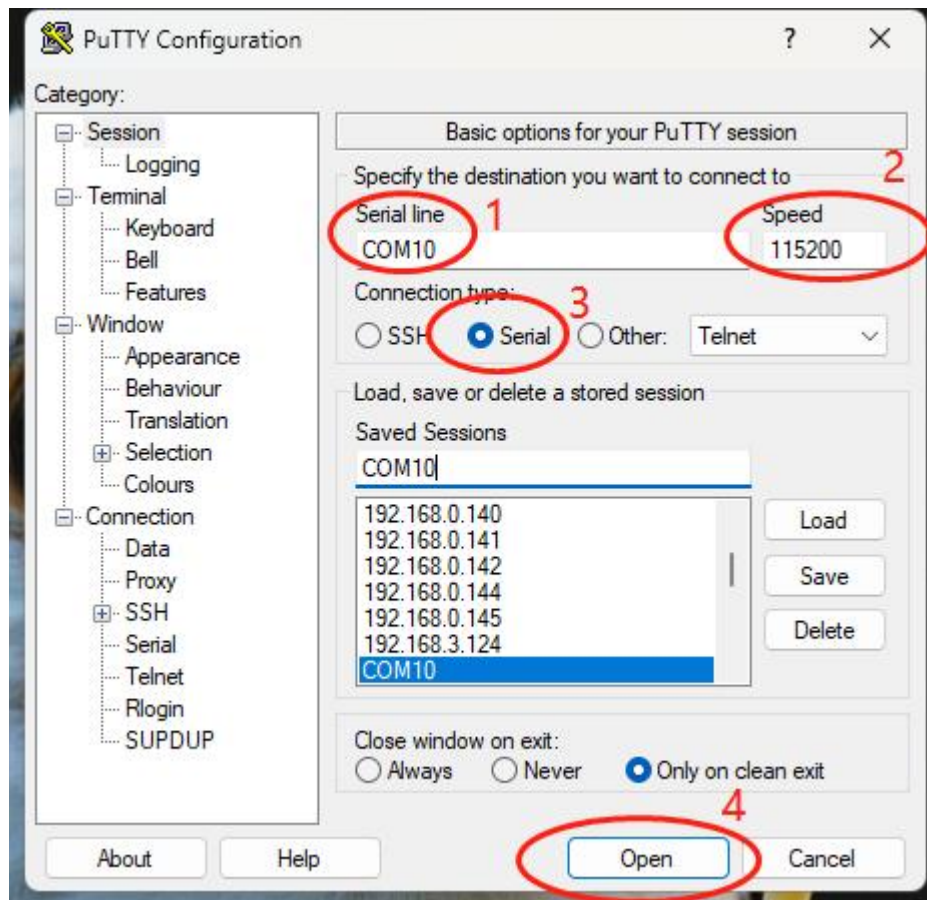
If you work under Windows system, please run Tools/win32diskimager to write the **IMX8MP-BASEBOARD-Yocto-SD-REVXX.img** into TF Card. If you work under Linux system, please use dd command to write it into TF Card.

Default output device is hdmi.

Image Name	Display Supported
IMX8MP-BASEBOARD-Yocto-SD-REVXX.img	HDMI

<a href="http://www.emtop-tech.com">www.emtop-tech.com</a>	<a href="https://github.com/EMTOP-TECH/SOM-IMX8MP">https://github.com/EMTOP-TECH/SOM-IMX8MP</a>
<a href="mailto:sales@emtop-tech.com">sales@emtop-tech.com</a>	<a href="mailto:support@emtop-tech.com">support@emtop-tech.com</a>

## 4. Debug From Serial



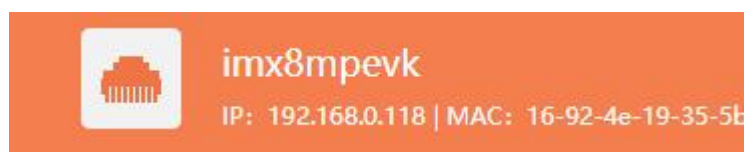
1	After connect the type-c to your pc, check your device manager COM Number
2	Baud rate Choose as 115200
3	Choose Serial
4	Open

You can download drivers or serial/ssh Tools from our github link:

<https://github.com/EMTOP-TECH/SOM-IMX8MP>

## 5. Debug From SSH

The Board default enable SSH,default name is imx8mpevk,default user is root.



**Password is:root**

<a href="http://www.emtop-tech.com">www.emtop-tech.com</a>	<a href="https://github.com/EMTOP-TECH/SOM-IMX8MP">https://github.com/EMTOP-TECH/SOM-IMX8MP</a>
<a href="mailto:sales@emtop-tech.com">sales@emtop-tech.com</a>	<a href="mailto:support@emtop-tech.com">support@emtop-tech.com</a>



## Output Device Select

The board support 3 kinds output device.**lvds/hdmi/mipi-dsi**

You can find below dtb file under TF/EMMC boot Partition


emtop-imx8mp-baseboard-hdmi.dtb	HDMI Output
emtop-imx8mp-baseboard-mipi-dsi.dtb	MIPI-DSI Output
emtop-imx8mp-baseboard-lvds.dtb	LVDS Output

### Select output device Under Windows:

You can check the file u.Env.txt from the TF card boot Partition

ChangeLog	2023/6/12 13:17	文本文档	1 KB
emtop-imx8mp-baseboard-hdmi.dtb	2023/3/17 7:52	DTB 文件	65 KB
emtop-imx8mp-baseboard-lvds.dtb	2023/3/17 7:52	DTB 文件	65 KB
emtop-imx8mp-baseboard-mipi-dsi.dtb	2023/3/17 7:52	DTB 文件	65 KB
Image	2023/6/12 13:14	文件	30,691 KB
uEnv	2023/3/9 3:48	文本文档	1 KB

```
# fdtfile=emtop-imx8mp-baseboard-hdmi.dtb
fdtfile=emtop-imx8mp-baseboard-mipi-dsi.dtb
# fdtfile=emtop-imx8mp-baseboard-lvds.dtb
|
```



Remove the #. means MIPI-DSI Output method enable.

## Select Output device from board

System Boot up from EMMC

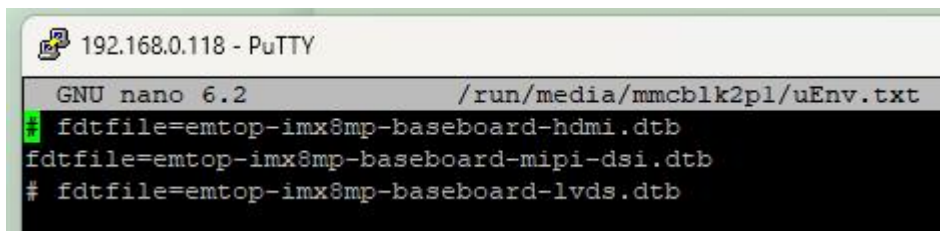
```
$sudo nano /run/media//mmcblk2p1/u.Env.txt
```

System Boot up from TF Card

```
$sudo nano /run/media/mmcblk1p1/uEnv.txt
```

Remark:

- Boot from emmc, the device is **/mmcblk2p1/**
- Boot from TF card, the device is **/mmcblk1p1/**



```
192.168.0.118 - PuTTY
GNU nano 6.2 /run/media/mmcblk2p1/uEnv.txt
# fdtfile=emtop-imx8mp-baseboard-hdmi.dtb
fdtfile=emtop-imx8mp-baseboard-mipi-dsi.dtb
# fdtfile=emtop-imx8mp-baseboard-lvds.dtb
```