

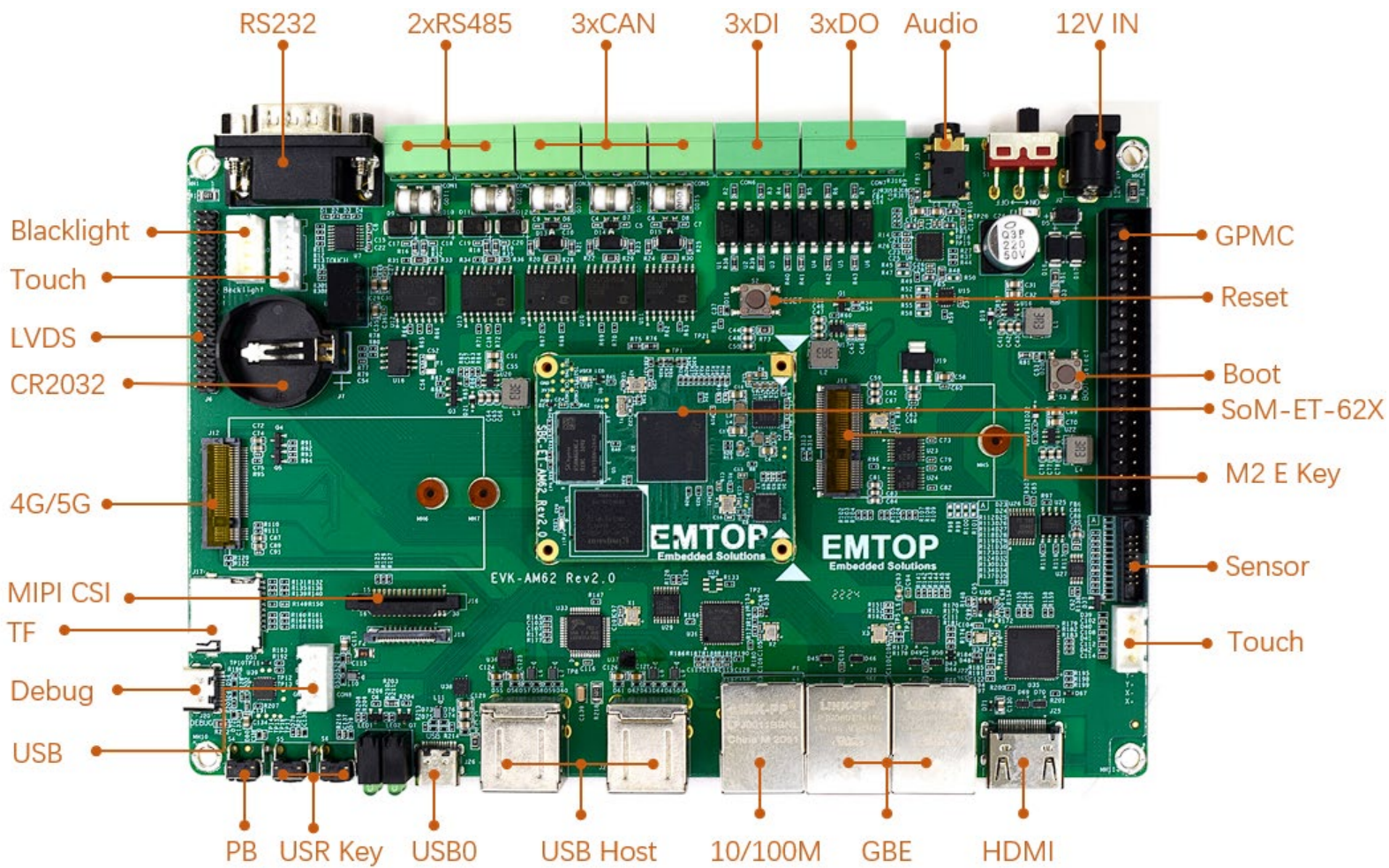
EVK-ET-AM62X Quick Start Guide

Revision History

Date	Version	Description
2025/06/03	V1.0	First Released

www.emtop-tech.com	https://github.com/EMTOP-TECH/SOM-ET-AM62X
sales@emtop-tech.com	support@emtop-tech.com

1 EVK-ET-AM62X Peripheral Interface

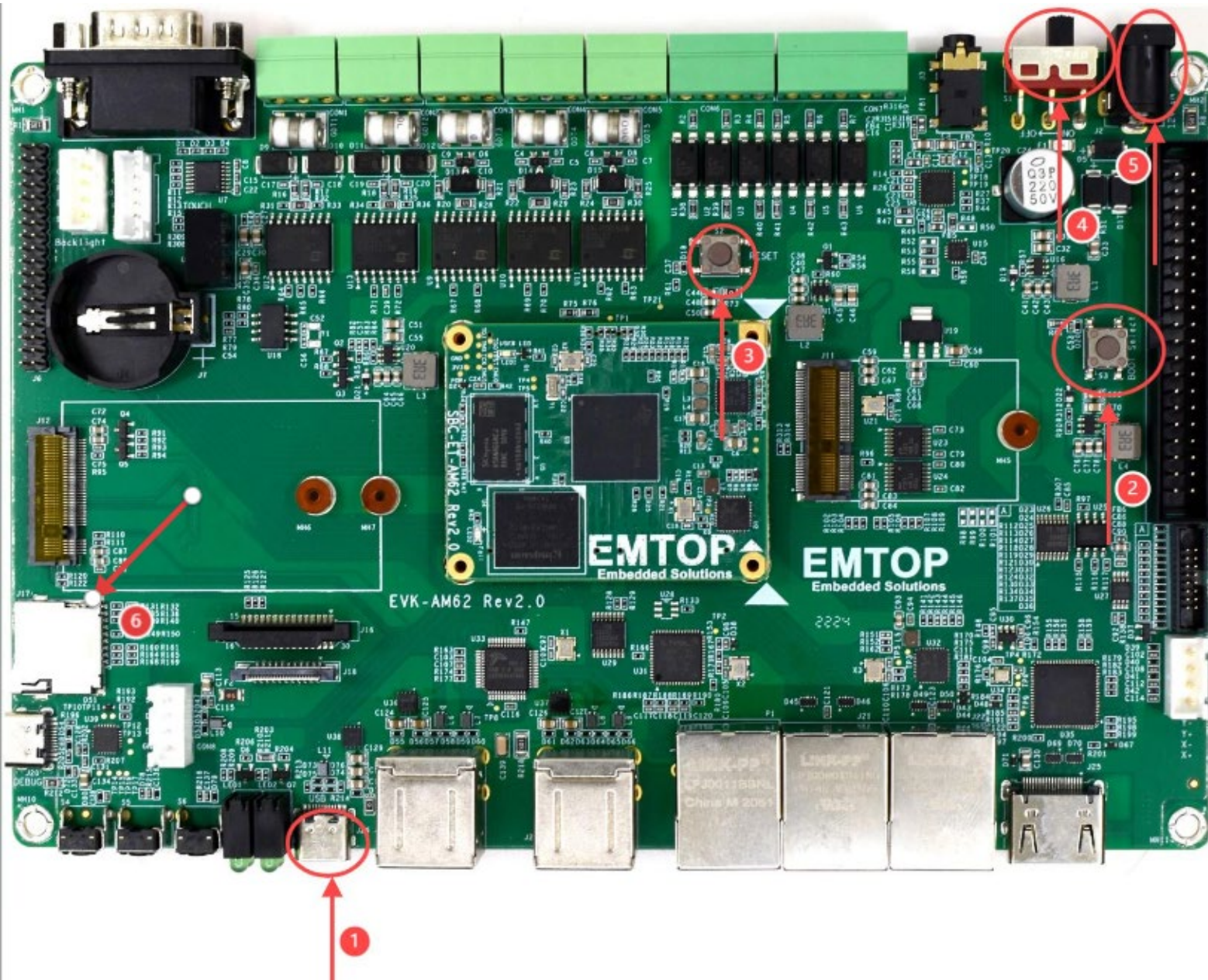


2 Prepare

EVK-ET-AM62X Support SSH or Serial to get debug information

- 1x EVK-ET-AM62X **Must**
- 1x12V@2A Power Adapter **Must**
- 1xUSB Type C Cable (Connect to Serial Interface) **Must**
- PC (Windows with Putty or other serial /SSH Tool) **Must**
- (Option) 1xHDMI Display, 1xEthernet Cable, 1xMIPI-DSI Or LVDS Display

3 Hardware Connection



Item	Description
1	Debug Port (Plug C to the Board, A to the Computer, Auto install Driver)
2	EMMC/TF Card Boot Select (Default EMMC Boot) (When you need to boot from TF Card, Push this Button Before Power ON)
3	Reset
4	Power ON/OFF
5	12V Power Input
6	TF Card

4 Make A Bootable TF Card

4.1 Download system Image

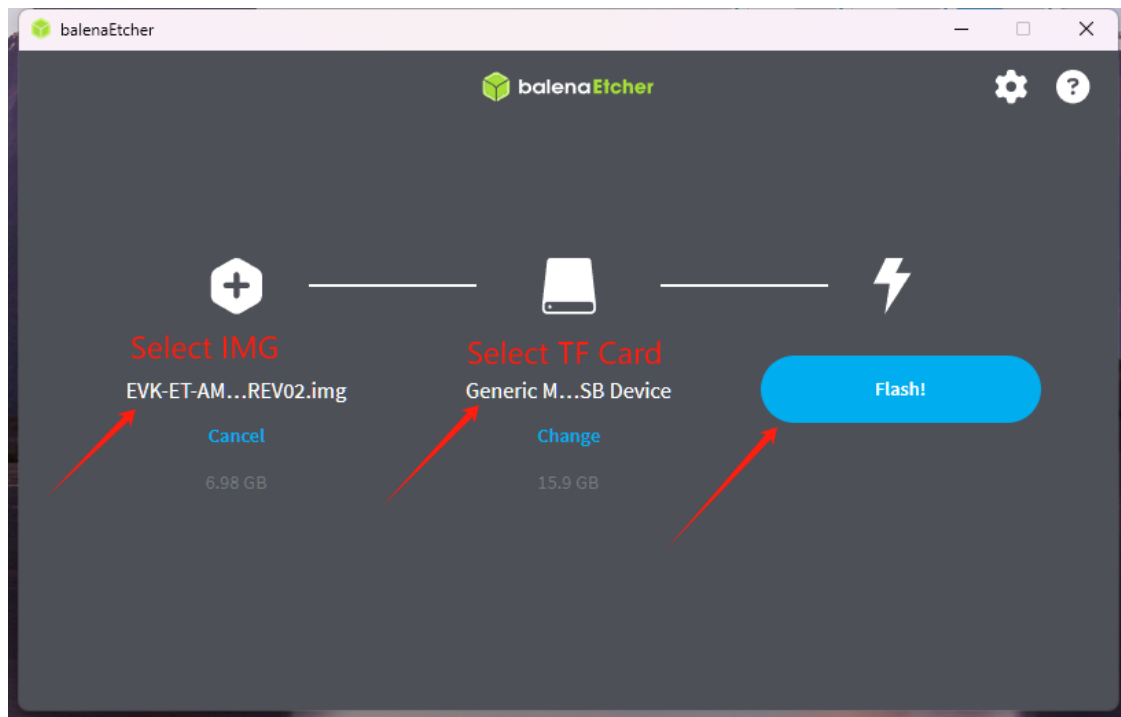
 EVK-ET-AM62-SD-REV02.img.xz	1003 MB	2025-01-11
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4.2 Get the system image from Image directory

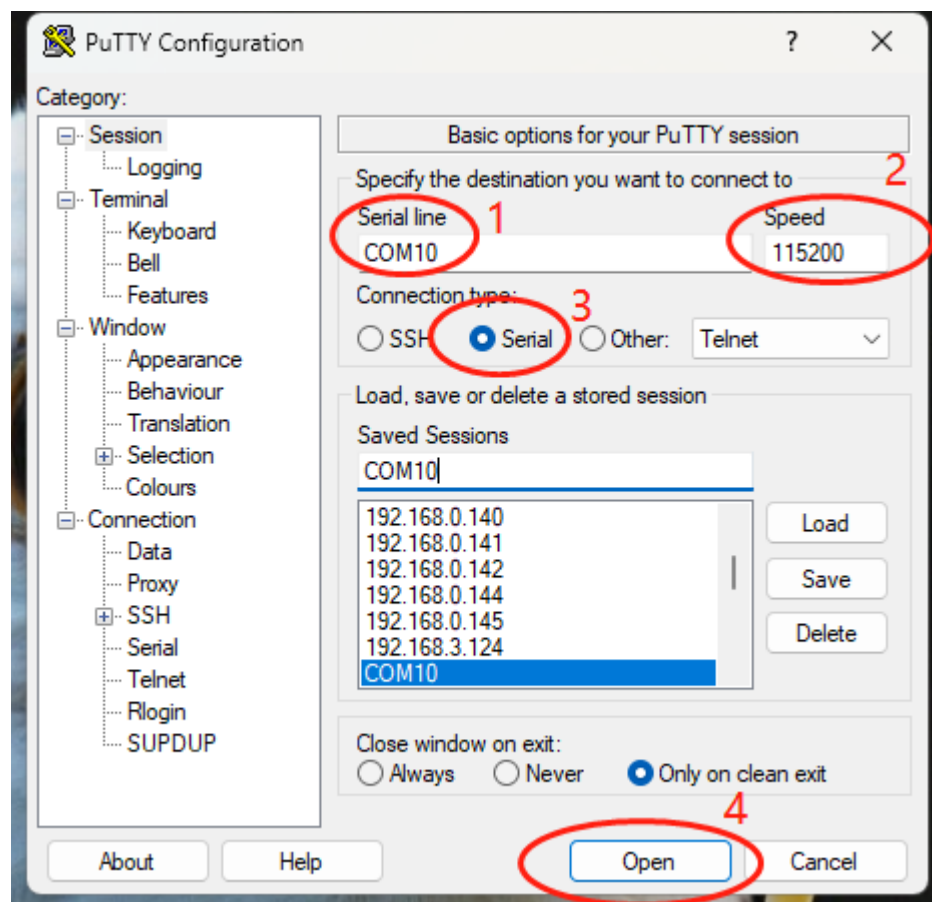
Get the system image from **Image** directory, named as **EVK-ET-AM62-SD-REVXX.img.xz**, unxz it and get the raw image **EVK-ET-AM62-SD-REVXX.img**. If you work under Windows system, please run **balenaEtcher** , **Tools/win32diskimager** to write the **EVK-ET-AM62-SD-REVXX.img** into TF Card. If you work under Linux system, please use **dd** command to write it into TF Card.

- balenaEtcher : <https://etcher.balena.io/>
- Putty: <https://www.putty.org/>

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4.3 Debug Serial



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

5 Output Device Select

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

emtop-evk-et-am62.dtb	Default 10.1 Inch LVDS Output
emtop-evk-et-am62-hdmi.dtb	HDMI Output
emtop-evk-et-am62-lcd8000-800x480.dtb	LCD8000-70T Display
emtop-evk-et-am62-lvds-boe.dtb	Single 10.4 Inch LVDS Display
emtop-evk-et-am62-dual-lvds-boe-clone-mode.dtb	Dual 10.4 Inch LVDS Display
emtop-evk-et-am62-dual-lvds-boe-separate-mode.dtb	Dual 10.4 Inch LVDS Display

```
# for EVK-ET-AM62
name_fdt=emtop-evk-et-am62.dtb
#name_fdt=emtop-evk-et-am62-hdmi.dtb
#name_fdt=emtop-evk-et-am62-lcd8000-800x480.dtb
```

Select output device Under Windows:

You can check the file u.Env.txt from the TF card boot Partition
Remove the #. means MIPI-DSI Output method enable.

emtop-sbc-et-am62.dtb	2025/1/9 7:20	DTB File	46 KB
emtop-sbc-et-am62-hdmi.dtb	2025/1/9 7:20	DTB File	46 KB
emtop-sbc-et-am62-lvds-boe.dtb	2025/1/9 7:20	DTB File	46 KB
Image	2025/5/21 22:14	File	20,989 KB
tiboot3.bin	2025/1/9 0:59	BIN File	284 KB
tispl.bin	2025/1/9 0:59	BIN File	1,078 KB
u-boot.img	2025/1/9 0:59	IMG File	922 KB
uEnv.txt	2025/6/3 12:51	Text Document	1 KB

```
# for SBC-ET-AM62
#name_fdt=emtop-sbc-et-am62.dtb
#name_fdt=emtop-sbc-et-am62-hdmi.dtb
#name_fdt=emtop-sbc-et-am62-lvds-boe.dtb

# for EVK-ET-AM62
name_fdt=emtop-evk-et-am62.dtb
#name_fdt=emtop-evk-et-am62-hdmi.dtb
#name_fdt=emtop-evk-et-am62-lcd8000-800x480.dtb
#name_fdt=emtop-evk-et-am62-lvds-boe.dtb
#name_fdt=emtop-evk-et-am62-dual-lvds-boe-clone-mode.dtb
#name_fdt=emtop-evk-et-am62-dual-lvds-boe-separate-mode.dtb
```

Select Output device from board

If System Boot up from EMMC

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

If System Boot up from TF Card

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

Remark:

- Boot from emmc, the device is **/mmcbk2p1/**
- Boot from TF card, the device is **/mmcbk1p1/**