

BOXER-8222AI

Compact Fanless Embedded AI@Edge Box PC
with NVIDIA® Jetson Nano™
User's Manual 3rd Ed

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Packing List

Before setting up your product, please make sure the following items have been shipped:

Item	Quantity
● BOXER-8222AI	1
● Power Connector	1

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

About this Document

This User's Manual contains all the essential information, such as detailed descriptions and explanations on the product's hardware and software features (if any), its specifications, dimensions, jumper/connector settings/definitions, and driver installation instructions (if any), to facilitate users in setting up their product.

Users may refer to the product page at AAEON.com for the latest version of this document.

Safety Precautions

Please read the following safety instructions carefully. It is advised that you keep this manual for future references

1. All cautions and warnings on the device should be noted.
2. All cables and adapters supplied by AAEON are certified and in accordance with the material safety laws and regulations of the country of sale. Do not use any cables or adapters not supplied by AAEON to prevent system malfunction or fires.
3. Make sure the power source matches the power rating of the device.
4. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
5. Always completely disconnect the power before working on the system's hardware.
6. No connections should be made when the system is powered as a sudden rush of power may damage sensitive electronic components.
7. If the device is not to be used for a long time, disconnect it from the power supply to avoid damage by transient over-voltage.
8. Always disconnect this device from any AC supply before cleaning.
9. While cleaning, use a damp cloth instead of liquid or spray detergents.
10. Make sure the device is installed near a power outlet and is easily accessible.
11. Keep this device away from humidity.
12. Place the device on a solid surface during installation to prevent falls
13. Do not cover the openings on the device to ensure optimal heat dissipation.
14. Watch out for high temperatures when the system is running.
15. Do not touch the heat sink or heat spreader when the system is running
16. Never pour any liquid into the openings. This could cause fire or electric shock.

17. As most electronic components are sensitive to static electrical charge, be sure to ground yourself to prevent static charge when installing the internal components. Use a grounding wrist strap and contain all electronic components in any static-shielded containers.
18. If any of the following situations arises, please contact our service personnel:
 - i. Damaged power cord or plug
 - ii. Liquid intrusion to the device
 - iii. Exposure to moisture
 - iv. Device is not working as expected or in a manner as described in this manual
 - v. The device is dropped or damaged
 - vi. Any obvious signs of damage displayed on the device
19. **DO NOT LEAVE THIS DEVICE IN AN UNCONTROLLED ENVIRONMENT WITH TEMPERATURES BEYOND THE DEVICE'S PERMITTED STORAGE TEMPERATURES (SEE CHAPTER 1) TO PREVENT DAMAGE.**

FCC Statement

Warning!



This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

Caution:

There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions and your local government's recycling or disposal directives.

Attention:

Il y a un risque d'explosion si la batterie est remplacée de façon incorrecte. Ne la remplacer qu'avec le même modèle ou équivalent recommandé par le constructeur. Recycler les batteries usées en accord avec les instructions du fabricant et les directives gouvernementales de recyclage.

产品中有毒有害物质或元素名称及含量

AAEON System

QO4-381 Rev.A0

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯 醚(PBDE)
印刷电路板 及其电子组件	×	○	○	○	○	○
外部信号 连接器及线材	×	○	○	○	○	○
外壳	○	○	○	○	○	○
中央处理器 与内存	×	○	○	○	○	○
硬盘	×	○	○	○	○	○
液晶模块	×	×	○	○	○	○
光驱	×	○	○	○	○	○
触控模块	×	○	○	○	○	○
电源	×	○	○	○	○	○
电池	×	○	○	○	○	○

本表格依据 SJ/T 11364 的规定编制。

○：表示该有毒有害物质在该部件所有均质材料中的含量均在 GB/T 26572标准规定的限量要求以下。

×：表示该有害物质的某一均质材料超出了GB/T 26572的限量要求，然而该部件仍符合欧盟指令2011/65/EU 的规范。

- 备注：
- 一、此产品所标示之环保使用期限，系指在一般正常使用状况下。
 - 二、上述部件物质中央处理器、内存、硬盘、光驱、电源为选购品。
 - 三、上述部件物质液晶模块、触控模块仅一体机产品适用。

China RoHS Requirement (EN)

Hazardous and Toxic Materials List

AAEON System

QO4-381 Rev.A0

Component Name	Hazardous or Toxic Materials or Elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr(VI))	Polybrominated biphenyls (PBBs)	Polybrominated diphenyl ethers (PBDEs)
PCB and Components	X	O	O	O	O	O
Wires & Connectors for Ext.Connections	X	O	O	O	O	O
Chassis	O	O	O	O	O	O
CPU & RAM	X	O	O	O	O	O
HDD Drive	X	O	O	O	O	O
LCD Module	X	X	O	O	O	O
Optical Drive	X	O	O	O	O	O
Touch Control Module	X	O	O	O	O	O
PSU	X	O	O	O	O	O
Battery	X	O	O	O	O	O
This form is prepared in compliance with the provisions of SJ/T 11364. O: The level of toxic or hazardous materials present in this component and its parts is below the limit specified by GB/T 26572. X: The level of toxic of hazardous materials present in the component exceed the limits specified by GB/T 26572, but is still in compliance with EU Directive 2011/65/EU (RoHS 2). Notes: 1. The Environment Friendly Use Period indicated by labelling on this product is applicable only to use under normal conditions. 2. Individual components including the CPU, RAM/memory, HDD, optical drive, and PSU are optional. 3. LCD Module and Touch Control Module only applies to certain products which feature these components.						

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Chapter 1

Product Specifications

1.1 Specifications

System

CPU	Quad Core ARM® Cortex® -A57 MPCore Processor
System Memory	4GB LPDDR4
AI Solution	NVidia® Jetson Nano™
Display Interface	HDMI 2.0 x 1
Storage Device	32 GB MicroSD Card (Jetson Nano version B) Mini-Card (Full Size) x 1 (PCIe+SATA+USB)
Ethernet	10/100/1000Base-TX x 2
I/O	USB3.2 Gen 1 x 4 (USB Type A) GbE LAN x 2 (GbE PD x 1 + GbE LAN x 1) 40-pin I/O x 1 (GPIO/I2S/I2C/Audio/SPI/UART) DB-9 (RS-232) x1 HDMI 2.0 a/b x 1 (HDMI Type A) OS Flash port x 1 (Micro USB) Recovery port x1 Antenna opening x 2
Expansion	Antenna x 2 M.2 2230 E Key x 1 (for Wi-Fi)
Indicator	Power LED x 1
OS Support	ACLinux 4.9 or above (Compatible with Ubuntu 18.04)

Power Supply

Power RequirementDC 12V~24V 2-pin terminal

Mechanical

MountingWall-mount
Dimensions (W x D x H)6.92" x 3.94" x 1.54"
(175.8mm x 100.0mm x 39.0mm)
Gross Weight2.31 lbs. (1.05 kg)
Net Weight1.28 lbs. (0.58 kg)

Environmental

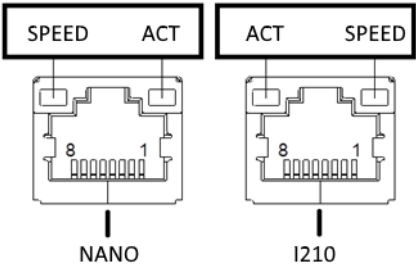
Operating Temperature-10°C ~ 70°C with 0.5m/s airflow
Storage Temperature-40°F ~ 176°F (-40°C ~ 80°C)
Storage Humidity95% @ 40°C, non-condensing
Anti-VibrationRandom, 3.5 Grms/ 5 ~ 500Hz
CertificationCE/FCC class A

1.2 Product Notice

Micro-USB: Micro-USB port is ideally for flashing image only.

USB ports: USB ports are not support USB DVD ROM because of file system.

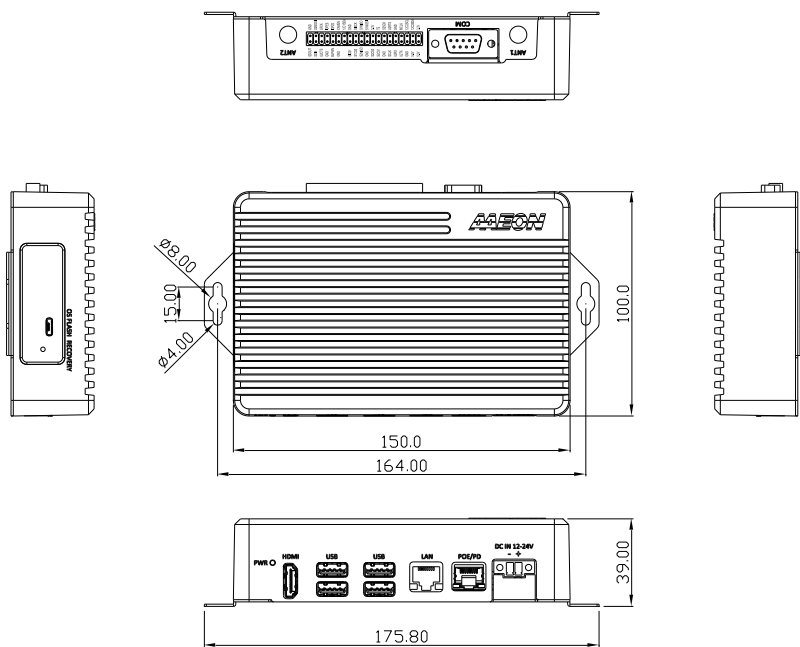
LAN Indicator Behavior



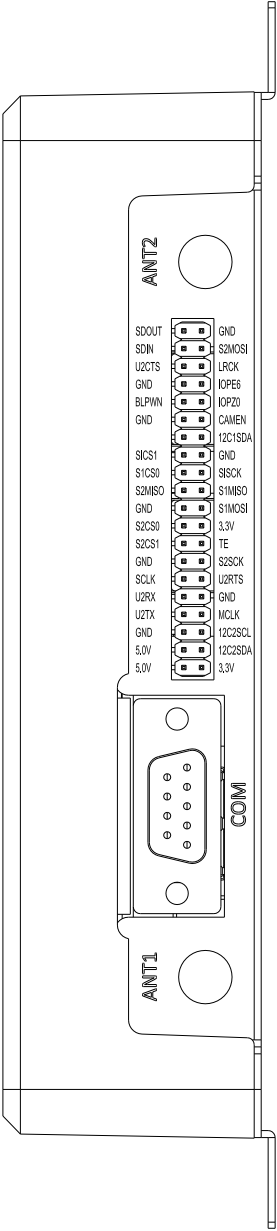
Chapter 2

Hardware Information

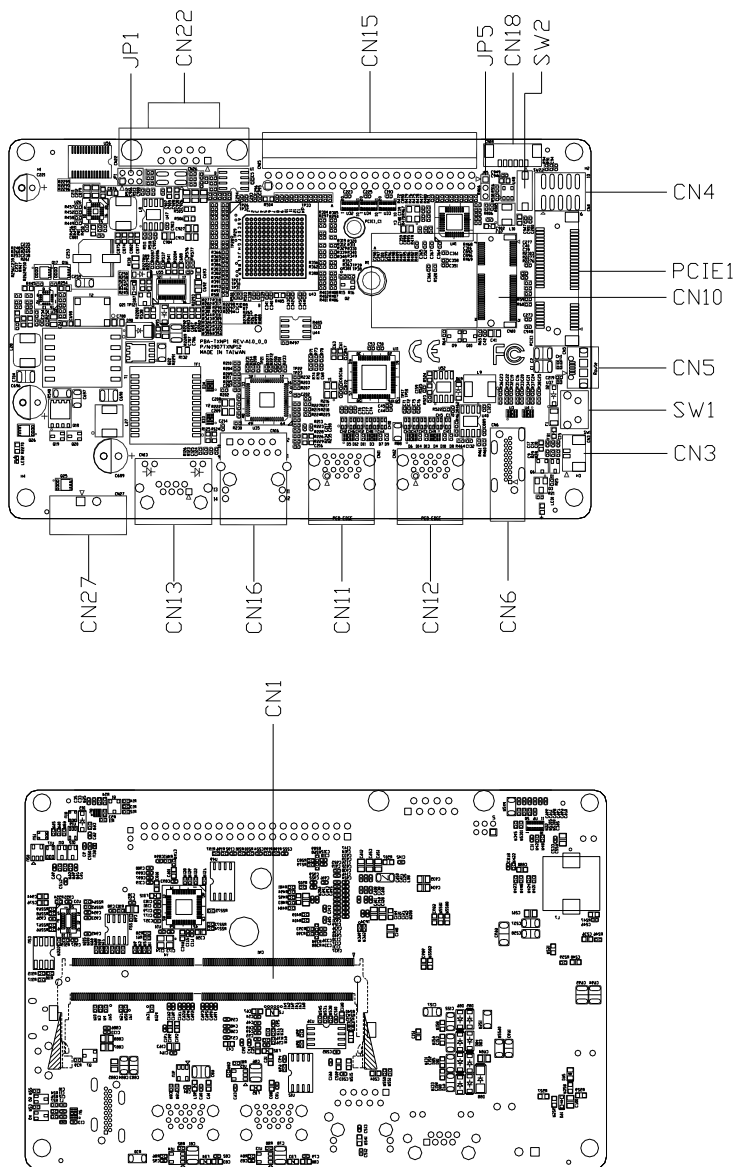
2.1 Dimensions



DIO Port



2.2 Jumpers and connectors



2.3 List of Jumpers

The board has a number of jumpers that allow you to configure your system to suit your application.

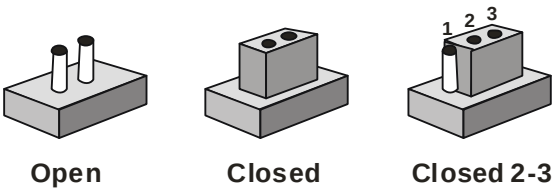
The table below shows the function of each of the board's jumpers

Label	Function
CN4 (Pin 7-8)	AT/ATX Mode Select
JP1	RS-232
JP5	PCIe/SATA Mode Select

2.3.1 Setting Jumpers

You can configure your system to match the needs of your application by setting jumpers. A jumper is the simplest kind of electric switch. It consists of two metal pins and a small metal clip (often protected by a plastic cover) that slides over the pins to connect them. To “close” a jumper you connect the pins with the clip.

To “open” a jumper you remove the clip. Sometimes a jumper will have three pins, labeled 1, 2 and 3. In this case you would connect either pins 1 and 2 or 2 and 3.



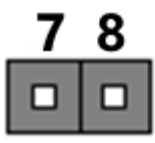
A pair of needle-nose pliers may be helpful when working with jumpers.

If you have any questions about the best hardware configuration for your application, contact your local distributor or sales representative before you make any changes.

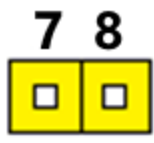
Generally, you simply need a standard cable to make most connections.

2.3.2 AT/ATX Mode Select (CN4 Pins 7-8)

The AT/ATX Mode Select functions by connecting pins 7 and 8 of CN4. To prevent damage to the system, do not connect pins 7 and 8 to any other pin.



Open – AT Mode

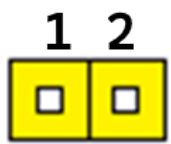


Closed – ATX Mode
(Default)

CN4 pins 7-8	Function
7-8 Open	AT Power Mode
7-8 Closed	ATX Power Mode (Default)

2.3.3 RS-232 (JP1)

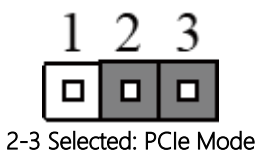
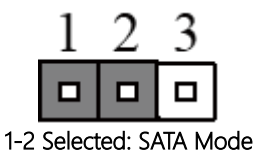
RS-232 functions by connecting pins 1 and 2 of JP1. To prevent damage to the system, do not connect pins 1 and 2 to any other pin.



Closed – RS-232
(Default)

JP1 pins 1-2	Function
1-2 Closed	RS-232 (Default)

2.3.4 PCIe/SATA Mode Selection (JP5)



2.4 List of Connectors

The board has a number of connectors that allow you to configure your system to suit your application.

The table below shows the function of each of the board's connectors

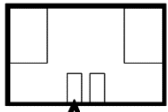
Label	Function
CN1	Jetson Nano CPU module Connector
CN3	RTC Battery Connector
CN4	Front Panel Connector
CN5	Micro USB for Image Flash
CN6	HDMI Connector
CN10	M.2 E Key
CN11	USB 3.0 Connector
CN12	USB 3.0 Connector
CN13	Gigabit LAN Connector (PD)
CN15	40-pin Header
CN16	LAN Connector
CN18	UART Debug Port
CN22	COM Port
CN27	Power IN
SW1	Recovery Switch

2.4.1 Jetson Nano CPU Module Connector (CN1)

Signal Name	Pin # Top Odd	Pin # Bottom Even	Signal Name
GND	1	2	GND
CSI_E_D0_P	3	4	CSI_B_D0_N
CSI_E_D0_N	5	6	CSI_B_D0_P
GND	7	8	GND
CSI_E_CLK_P	9	10	RSVD
CSI_E_CLK_N	11	12	RSVD
GND	13	14	GND
CSI_E_D1_P	15	16	CSI_B_D1_P
CSI_E_D1_N	17	18	CSI_B_D1_N
GND	19	20	GND
CSI_F_D0_P	21	22	CSI_A_D0_P
CSI_F_D0_N	23	24	CSI_A_D0_N
GND	25	26	GND
CSI_F_CLK_P	27	28	CSI_A_CLK_P
CSI_F_CLK_N	29	30	CSI_A_CLK_N
GND	31	32	GND
CSI_F_D1_P	33	34	CSI_A_D1_N
CSI_F_D1_N	35	36	CSI_A_D1_P
GND	37	38	GND
HDMI_TX0_N	39	40	CSI_C_D0_N
HDMI_TX0_P	41	42	CSI_C_D0_P
GND	43	44	GND
HDMI_TXC_P	45	46	CSI_C_CLK_N
HDMI_TXC_N	47	48	CSI_C_CLK_P
GND	49	50	GND
HDMI_TXD1_P	51	52	CSI_C_D1_P
HDMI_TXD1_N	53	54	CSI_C_D1_N
GND	55	56	GND
HDMI_TXD2_N	57	58	CSI_D_D0_P
HDMI_TXD2_P	59	60	CSI_D_D0_N
GND	61	62	GND
EDP_TXD1_N	63	64	CSI_D_D1_P
EDP_TXD1_P	65	66	CSI_D_D1_N
GND	67	68	GND
EDP_TXD3_N	69	70	DSI_A_D1_N
EDP_TXD3_P	71	72	DSI_A_D1_P
GND	73	74	GND
EDP_TXD0_P	75	76	DSI_A_CLK_N
EDP_TXD0_N	77	78	DSI_A_CLK_P
GND	79	80	GND
EDP_TXD2_P	81	82	DSI_A_D0_N
EDP_TXD2_N	83	84	DSI_A_D0_P
GND	85	86	GND
USB_VBUS_EN0	87	88	HDMI_INT_DP_HPD
SP11_MOSI	89	90	HDMI_CEC
SP11_SCK	91	92	DP_HPD
SP11_MISO	93	94	DP_AUX_CH0_P
SP11_CS0	95	96	DP_AUX_CH0_N
SP11_CS1	97	98	DP_AUX_CH1_N
UART3_TXD	99	100	DP_AUX_CH1_P
UART3_RTS	101	102	GND
UART3_CTS	103	104	SP12_CS0
UART3_RXD	105	106	SP12_MISO
GND	107	108	SP12_SCK
USB0_DN	109	110	SP12_MOSI
USB0_DP	111	112	SP12_CS1
GND	113	114	CAM0_PWDN
USB1_DN	115	116	CAM0_MCLK
USB1_DP	117	118	CAM1_PWDN
GND	119	120	CAM1_PWDN
USB2_DN	121	122	CAM1_MCLK
USB2_DP	123	124	GPIO_P16
GND	125	126	GPS_EN
NFC_INT	127	128	AP_WAKE_NFC
GND	129	130	NFC_EN
PEX_RX2_N	131	132	GND

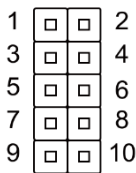
Signal Name	Pin # Top Odd	Pin # Bottom Even	Signal Name
PEX_RX2_P	133	134	PEX_TX2_N
GND	135	136	PEX_TX2_P
PEX_RX1_N	137	138	GND
PEX_RX1_P	139	140	PEX_TX1_N
GND	141	142	PEX_TX1_P
RSVD	143	144	GND
KEY	KEY	KEY	KEY
RSVD	145	146	GND
GND	147	148	PEX_TX3_N
PEX_RX3_P	149	150	PEX_TX3_P
PEX_RX3_N	151	152	GND
GND	153	154	PEX_CLK1_N
PEX_RX4_P	155	156	PEX_CLK1_P
PEX_RX4_N	157	158	GND
GND	159	160	PEX_TX4_P
PEX_RX5_N	161	162	PEX_TX4_N
PEX_RX5_P	163	164	GND
GND	165	166	PEX_TX5_P
RSVD	167	168	PEX_TX5_N
RSVD	169	170	GND
GND	171	172	RSVD
RSVD	173	174	RSVD
RSVD	175	176	GND
GND	177	178	GPIO_PA6
PEX_WAKE	179	180	PEX_L0_CLKREQ
PEX_L0_RST	181	182	RSVD
RSVD	183	184	GBE_MDIO_P
GEN1_I2C_SCL	185	186	GBE_MDIO_N
GEN1_I2C_SDA	187	188	GBE_LED1
GEN2_I2C_SCL	189	190	GBE_MDIO_N
GEN2_I2C_SDA	191	192	GBE_MDIO_P
DAP4_DIN	193	194	GBE_LED0
DAP4_FS	195	196	GBE_MDIO1_N
DAP4_DOUT	197	198	GBE_MDIO1_P
DAP4_SCLK	199	200	GND
GND	201	202	GBE_MDIO5_N
UART2_RTS	203	204	GBE_MDIO5_P
UART2_CTS	205	206	LCD_BL_PWM
UART2_TXD	207	208	GPIO_P22 (FAN_TACH)
UART2_RXD	209	210	CLK_32K_OUT
AUD_MCLK	211	212	LCD_BL_EN
CAM_I2C_SCL	213	214	FORCE_RECOVERY*
CAM_I2C_SDA	215	216	GPIO_P29
GND	217	218	LCD_TE
SDMMC3_DAT0	219	220	DAP3_DOUT
SDMMC3_DAT1	221	222	DAP3_DIN
SDMMC3_DAT2	223	224	DAP3_FS
SDMMC3_DAT3	225	226	DAP3_SCLK
SDMMC3_CMD	227	228	GPIO_P6
SDMMC3_CLK	229	230	GPIO_P67 (FAN_PWM)
GND	231	232	GEN3_I2C_SDA
SHUTDOWN_REQ*	233	234	GEN3_I2C_SCL
PMIC_BBAT	235	236	UART1_TXD
POWER_EN	237	238	UART1_RXD
SYS_RESET_IN*	239	240	BUTTON_PWR_ON*
GND	241	242	GND
GND	243	244	GND
GND	245	246	GND
GND	247	248	GND
GND	249	250	GND
VDD_IN	251	252	VDD_IN
VDD_IN	253	254	VDD_IN
VDD_IN	255	256	VDD_IN
VDD_IN	257	258	VDD_IN
VDD_IN	259	260	VDD_IN

2.4.2 RTC Battery Connector (CN3)



Pin	Signal	Pin	Signal
1	+3V	2	GND

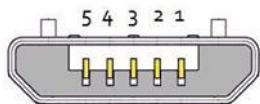
2.4.3 Front Panel Connector (CN4)



Pin	Signal	Pin	Signal
1	Button power	2	GND
3	Recovery	4	GND
5	Reset	6	GND
7	Latch set	8	Latch set
9	PWR LED	10	+5V

Note: Pin 7 and 8 are used for setting AT/ATX Power Mode. See [Chapter 2.3.2](#) for information. To prevent damage to your system, do not connect Pins 7 and 8 with any other pin.

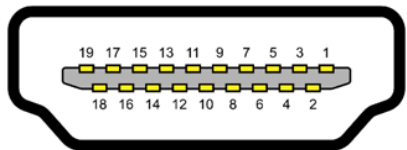
2.4.4 USB 2.0 Connector for Image Flash (CN5)



USB Micro-B

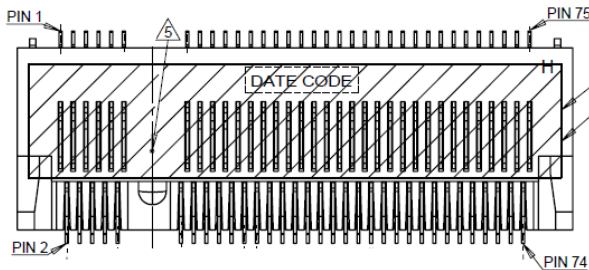
Pin	Signal	Pin	Signal
1		2	USB1-
3	USB1+	4	
5	GND		

2.4.5 HDMI Connector (CN6)



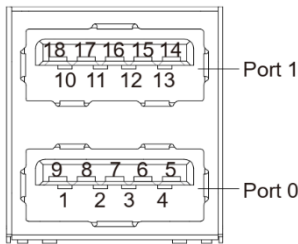
Pin	Signal	Pin	Signal
1	HDMI_DATA2_P	2	GND
3	HDMI_DATA2_N	4	HDMI_DATA1_P
5	GND	6	HDMI_DATA1_N
7	HDMI_DATA0_P	8	GND
9	HDMI_DATA0_N	10	HDMI_CLK_P
11	GND	12	HDMI_CLK_N
13	NC	14	NC
15	HDMI_SCL	16	HDMI_SDA
17	GND	18	HDMI_PWR
19	HDMI_HDP		

2.4.6 M.2 E Key (CN10)



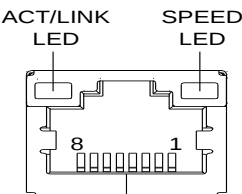
CN10 Uses standard M.2 E Key specifications

2.4.7 USB 3.0 Connector (CN11/12)



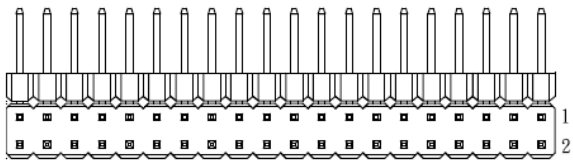
Pin	Signal	Pin	Signal
U1	VBUS_1	U10	VBUS_2
U2	(A)D-	U11	(B)D-
U3	(A)D+	U12	(B)D+
U4	GND	U13	GND
U5	(A)SSRX-	U14	(B)SSRX-
U6	(A)SSRX+	U15	(B)SSRX+
U7	GND	U16	GND
U8	(A)SSTX-	U17	(B)SSTX-
U9	(A)SSTX+	U18	(B)SSTX+

2.4.8 PD Connector (RJ45) (CN13)



Pin	Signal	Pin	Signal
1	MDIP0_0_TF	2	MDIN0_0_TF
3	MDIP1_0_TF	4	MDIN2_0_TF
5	MDIP2_0_TF	6	MDIN1_0_TF
7	MDIP3_0_TF	8	MDIN3_0_TF

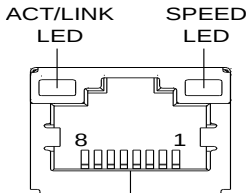
2.4.9 40-Pin Header (CN15)



Pin	Signal	Pin	Signal
1	3.3V	2	5V
3	I2C1_SDA	4	5V
5	I2C1_SCL	6	GND
7	GPIO09	8	UART1_TXD
9	GND	10	UART1_RXD
11	UART1_RTS	12	I2S0_SCLK
13	SPI1_SCK	14	GND
15	GPIO12	16	SPI1_CS1

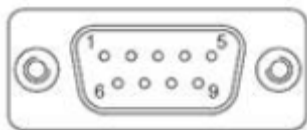
Pin	Signal	Pin	Signal
17	3.3V	18	SPI1_CS0
19	SPI0_MOSI	20	GND
21	SPI0_MISO	22	SPI1_MISO
23	SPI0_SCK	24	SPI0_CS0
25	GND	26	SPI0_CS1
27	ID_I2C_SDA	28	ID_I2C_SCL
29	GPIO01	30	GND
31	GPIO11	32	GPIO07
33	GPIO13	34	GND
35	I2S0_LRCK	36	UART1_CTS
37	SPI1_MOSI	38	I2S0_SDIN
39	GND	40	I2S0_SDOUT

2.4.10 LAN RJ45 Port (CN16)



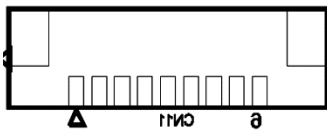
Pin	Signal	Pin	Signal
1	MDI0+	2	MDI0-
3	MDI1+	4	MDI1-
5	MDI2+	6	MDI2-
7	MDI3+	8	MDI3-

2.4.11 COM Port Connector (CN22)



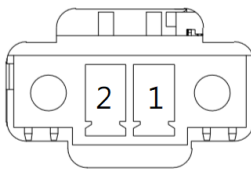
Pin	Signal	Pin	Signal
1		6	
2	RXD	7	RTS
3	TXD	8	CTS
4	485_RX1B	9	485_TX1B
5	GND		

2.4.12 UART Debug Port Connector (CN18)



Pin	Signal	Pin	Signal
1	3.3V	2	UART0 TXD
3	UART0 RXD	4	
5		6	I2C_SCL
7	I2C_SDA	8	GND
9	GND		

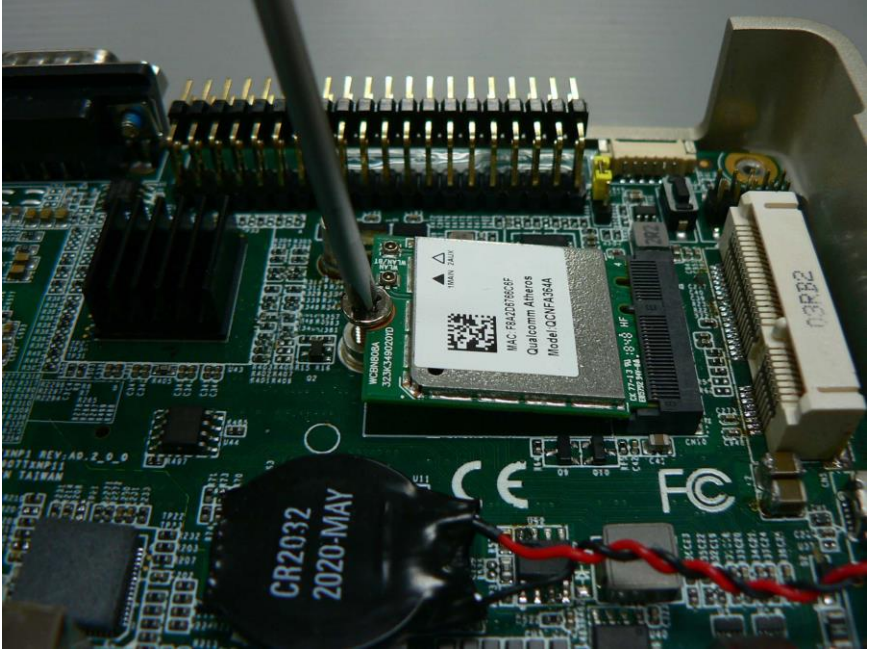
2.4.13 DC Power In Connector (CN27)



Pin	Signal	Pin	Signal
1	PWR IN	2	GND

2.5 Hardware Installation

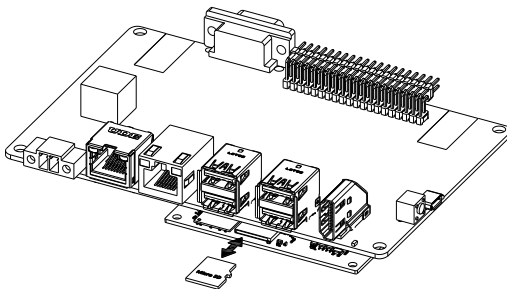
2.5.1 M.2 Installation



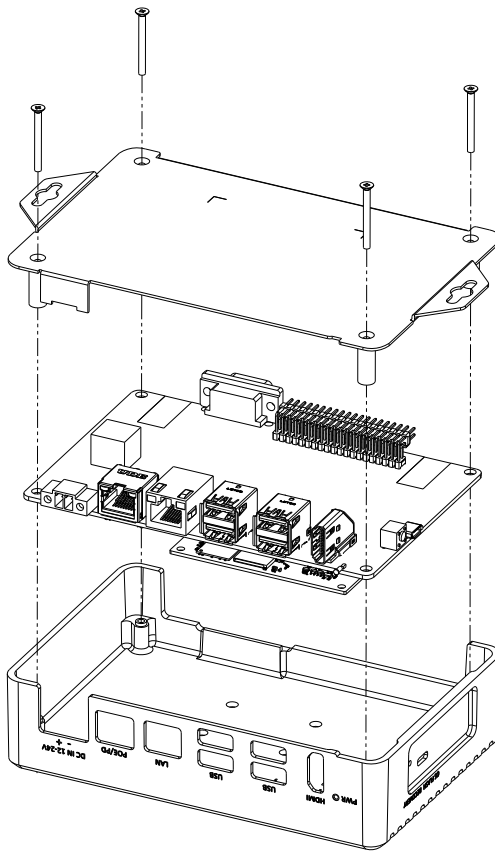
2.5.2 mPCIe Card Installation



2.5.3 SD Card Installation



2.5.4 Chassis Assembly



Chapter 3

OS Flash guide

3.1 Flash OS Image to SD-Card

3.1.1 Introduction

This chapter details the steps to flashing the AAEON ACLinux OS to your BOXER-8222AI NVIDIA Jetson Nano system. The ACLinux image can be downloaded from the product page at:

<https://www.aaeon.com/en/p/edge-ai-box-pc-nvidia-jetson-nano-boxer-8222ai>

The instructions in this chapter are only applicable to ACLinux build number 3 or later. To identify the build number, check the file name of the download. It should be formatted as follows, with {BN} being the build number

`ACLlinux_4.9_ACLNX49D.NV03.BOXER-8222AI.{BN}.tar.gz`

For example, build number 4 will be named as:

`ACLlinux_4.9_ACLNX49D.NV03.BOXER-8222AI.4.tar.gz`

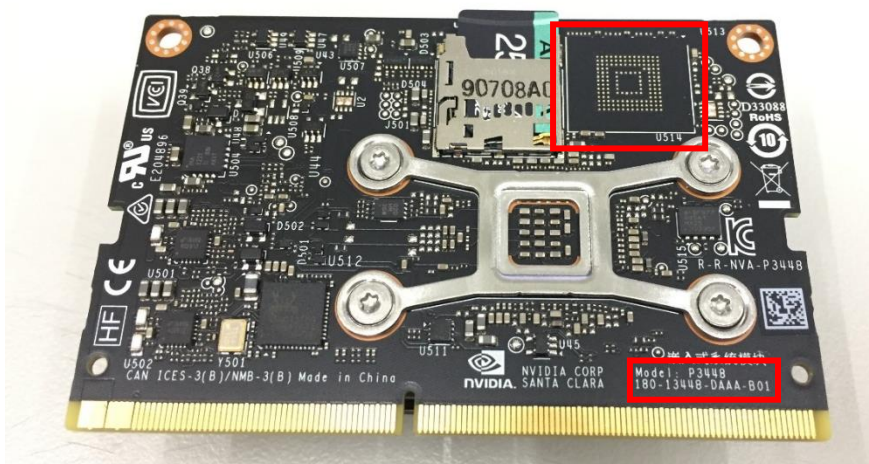
If you have any questions or need help installing an older build, please contact AAEON support or your AAEON representative for assistance.

3.1.2 Before You Begin

Before beginning the process ensure you have the following:

- ACLinux Image Build 3 or later
- One host PC with operating system Ubuntu 16.04 or 18.04
- Micro-SD Card 16GB or larger
- Micro-SD Card USB adapter/reader (if host PC does not have a Micro-SD Slot)
- Jetson Nano Development Kit B01 module (no onboard eMMC storage); see

image below for reference



AAEON recommends downloading balenaEtcher for the image flash process. You can download the program the balena website: <https://www.balena.io/etcher/>

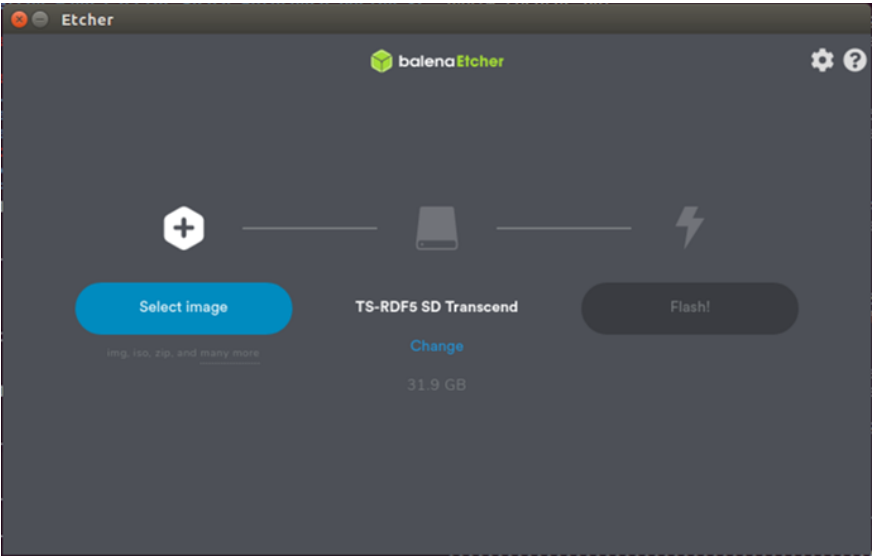
Finally, before starting, on the Linux host PC, extract the image file you downloaded using the following command in terminal (remember to replace {BN} with the build number in the file name):

```
$ tar xzf ACLinux_4.9_ACLNX49D.NV03.BOXER-8222AI.{BN}.tar.gz
```

3.1.3 Flash Image to Micro SD Card

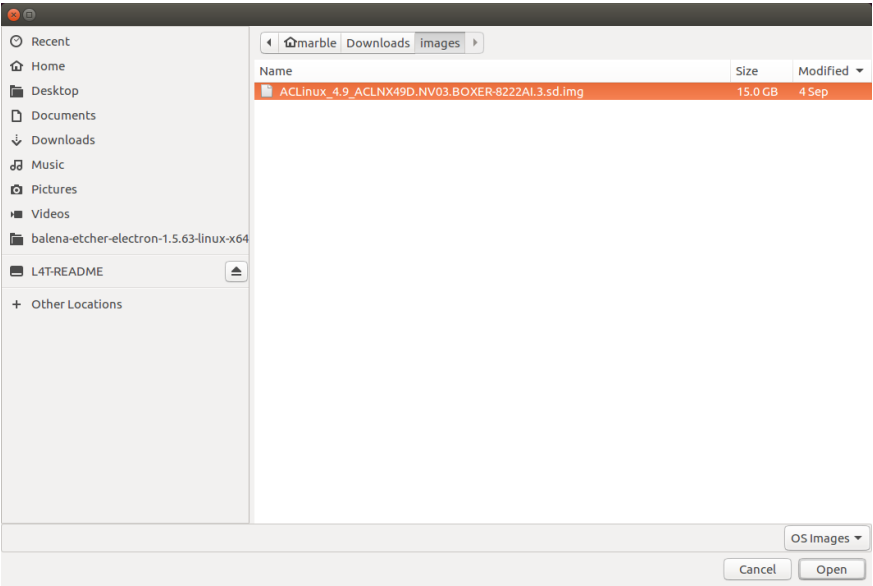
Step 1: Insert the Micro-SD card you want to flash into the host PC.

Step 2: Run the Etcher flash tool.

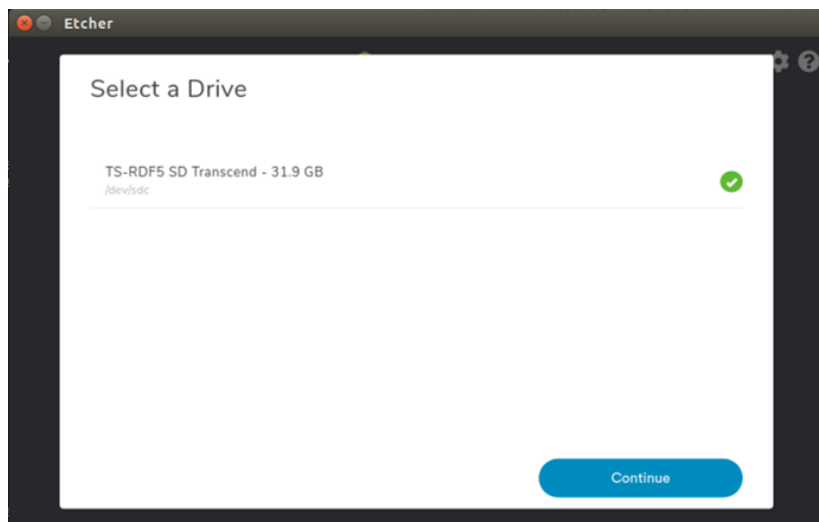
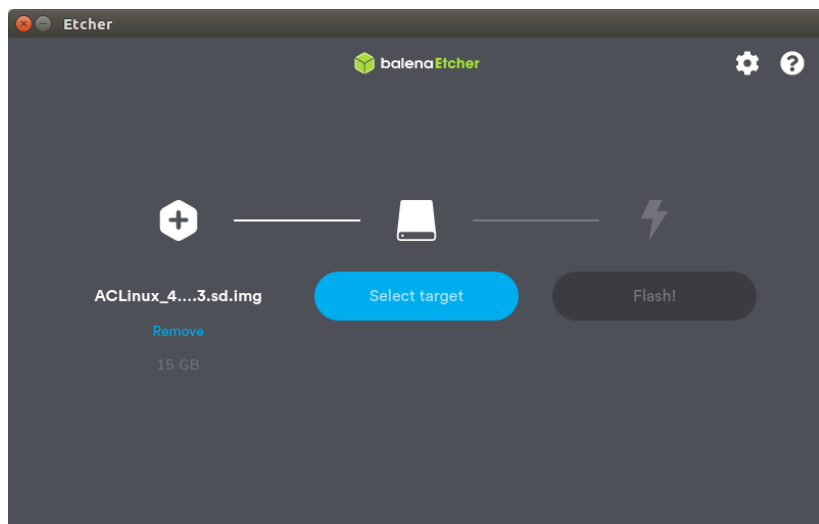


Step 3: Click “Select image” and choose the image file you extracted. File name should look like:

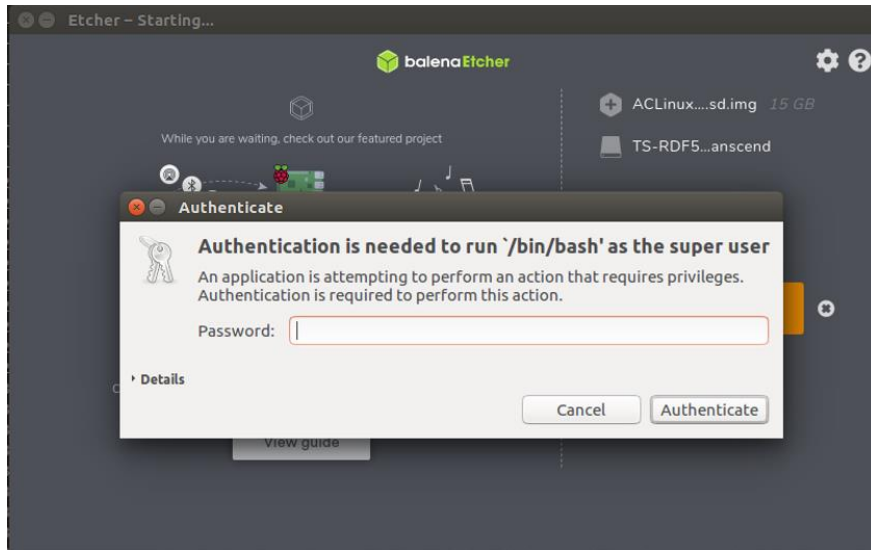
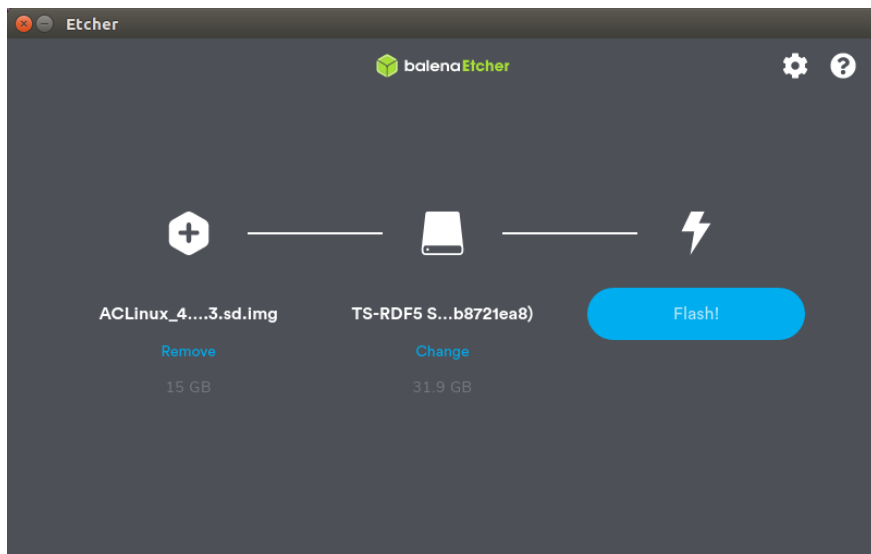
```
ACLlinux_4.9_ACLNX49D.NV03.BOXER-8222AI.{BN}.sd.img
```



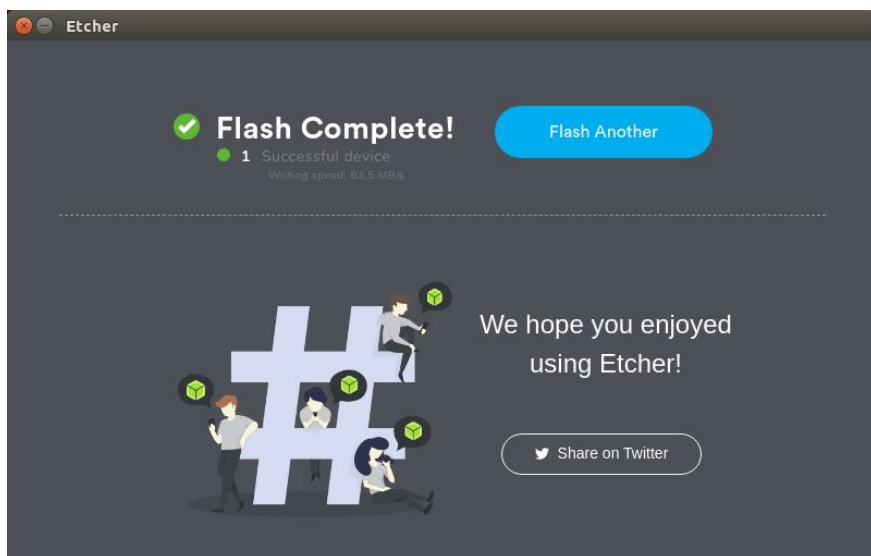
Step 4: Etcher will automatically choose a USB device to write to. Click “Change” or “Select Target” to select the correct device if Etcher has not defaulted to the SD Card.



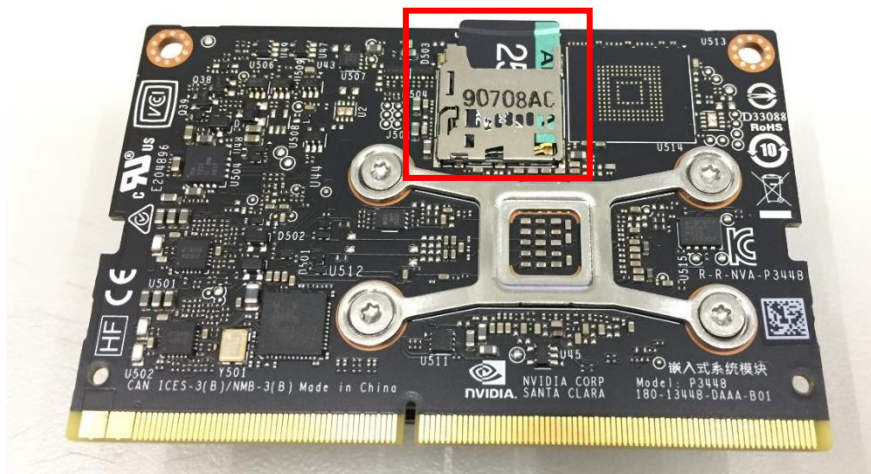
Step 5: Click “Flash!” to flash image to your SD Card. Ubuntu may ask for a password to continue the operation. Enter your password to continue.



Step 6: Wait for Etcher to complete the process.



Step 7: After Etcher successfully finishes, remove the SD Card from the host PC, and insert the Micro-SD card into the NVIDIA Jetson Nano SOC. Then, insert the Jetson Nano SOC into the BOXER-8222AI board if you have not already done so.





Follow assembly instructions in Chapter 2.5 to assemble the BOXER-8222AI system.