

eNVP-JNN-AI-A0000

NVIDIA Jetson® Nano AI BOX

User's Manual



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EVERFOCUS ELECTRONICS CORPORATION

eNVP-JNN-AI-A0000

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www.everfocus.com.tw

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Safety Precautions

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

- All cautions and warnings on the device should be noted.
- All cables and adapters supplied by EverFocus 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 EverFocus to prevent system malfunction or fires.
- Make sure the power source matches the power rating of the device.
- Position the power cord so that people cannot step on it. Do not place anything over the power cord.
- Always completely disconnect the power before working on the system's hardware.
- No connections should be made when the system is powered as a sudden rush of power may damage sensitive electronic components.
- 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.
- Always disconnect this device from any AC supply before cleaning.
- While cleaning, use a damp cloth instead of liquid or spray detergents.
- Make sure the device is installed near a power outlet and is easily accessible.
- Keep this device away from humidity.
- Place the device on a solid surface during installation to prevent falls.
- Do not cover the openings on the device to ensure optimal heat dissipation.
- Watch out for high temperatures when the system is running.
- Do not touch the heat sink or heat spreader when the system is running.
- Never pour any liquid into the openings. This could cause fire or electric shock.
- 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.
- If any of the following situations arises, please contact our service personnel (ts@everfocus.com.tw):
 - Damaged power cord or plug
 - Liquid intrusion to the device
 - Exposure to moisture
 - Device is not working as expected or in a manner as described in this manual
 - The device is dropped or damaged
 - Any obvious signs of damage displayed on the device
- **DO NOT LEAVE THIS DEVICE IN AN UNCONTROLLED ENVIRONMENT WITH TEMPERATURES BEYOND THE DEVICE'S PERMITTED STORAGE TEMPERATURES (SEE SPECIFICATION) 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.

RoHS Requirements

設備名稱 (Equipment): AI Box · 型號 (型式) / Type designation (Type): eNVP-JNN-AI-A0000						
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr(VI))	多溴聯苯 Polybrominated biphenyls (PBBs)	多溴二苯醚 Polybrominated diphenyl ethers (PBDEs)
印刷電路板及電子零組件 PCB & Other Components	X	○	○	○	○	○
外部訊號連接器及線材 Wires & Connectors for Ext. Connections	X	○	○	○	○	○
外殼 Chassis	○	○	○	○	○	○
中央處理器與內存 CPU & RAM	X	○	○	○	○	○
硬碟 HDD Drive	X	○	○	○	○	○
液晶模組 LCD Module	X	X	○	○	○	○
光學驅動 Optical Drive	X	○	○	○	○	○
觸控模組 Touch Control Module	X	○	○	○	○	○
電源 PSU	X	○	○	○	○	○
電池 Battery	X	○	○	○	○	○

本表格依據 SJ/T 11364 的規定編制。 This form is prepared in compliance with the provisions of SJ/T 11364.

○：表示有毒有害物質在該部件所有均質材料中的含量均在 GB/T 26572 標準規定的限量要求以下。

○：The level of toxic or hazardous materials present in this component and its parts is below the limit specified by GB/T 26572.

X：表示該有毒物質的某一均質材料超出了 GB/T 26572 的限量要求，然而該部件仍符合歐盟指令 2011/65/EU 的規範。

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).

備註 Notes:

1. 此產品所標示之環保使用期限，係指在一般正常使用狀況下。
The Environment Friendly Use Period indicated by labeling on this product is applicable only to use under normal conditions.
2. 上述部件物質中央處理器、內存、硬碟、光學驅動、電源為選購品。
Individual components including the CPU, RAM/memory, HDD, optical drive, and PSU are optional.
3. 上述部件物質液晶模組、觸控模組僅一體機產品適用。
LCD Module and Touch Control Module only applies to certain products which feature these components.

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Chapter 1

1. Introduction

Everfocus eNVP-JNN-AI-A0000 is a compact AI Box based on NVIDIA® Jetson Nano™ designed for general and commercial market.

With its Quad-core ARM® Cortex®-A57 MPCore processor and various interfaces including 1 HDMI display output, 4 USB Gen 1 ports, 2 COM ports, and 1 GbE LAN port, the eNVP-JNN-AI-A0000 aims to deliver high-quality performance for your computing applications.

This model also comes with EverFocus in-house designed software, providing basic NVR functions of real-time live view, video recording, video playback, alarm notification and etc.

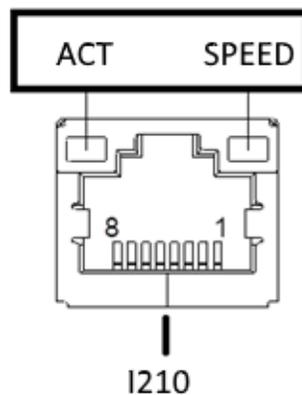
1.1 Product Notice

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

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

USB 3.2 Gen 1: USB 3.2 Gen 1 is the current name for 5Gbps specification, formerly USB 3.0.

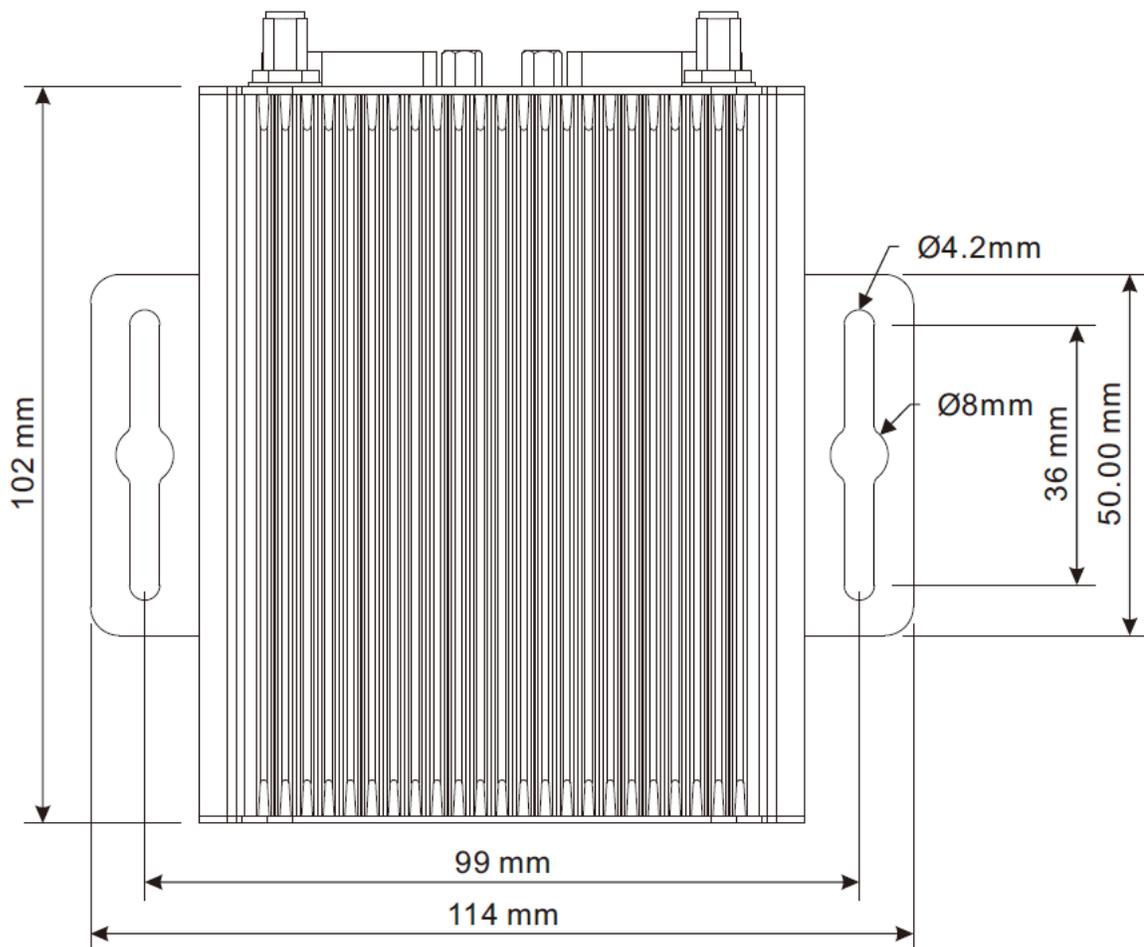
LAN Indicator Behavior



1.2 Features

- Fanless AI edge embedded box PC
- Quad-core ARM® Cortex®-A57 MPCore processor
- NVIDIA Maxwell™ architecture with 128 NVIDIA CUDA® cores
- Onboard 4 GB 64-bit LPDDR4 memory
- Supports 1 HDMI display output
- Supports 4 USB 3.2 Gen 1
- Supports 2 RS-232 Port.
- Supports 1 Ethernet Network GbE ports
- CE, FCC certified

1.3 Dimensions



1.4 Packing List

- AI Box x 1
- Power Connector x 1

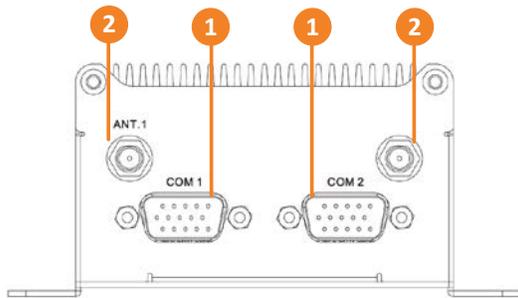
Note:

1. Equipment configurations and supplied accessories vary by country. Please consult your local EverFocus office or agents for more information. Please also keep the shipping carton for possible future use.
2. Contact the shipper if any items appear to have been damaged in the shipping process.

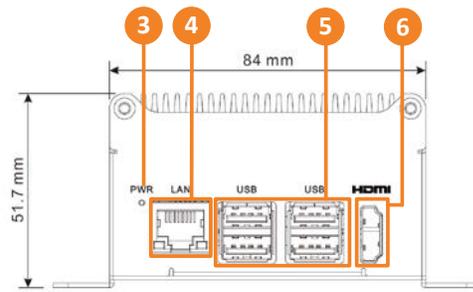
1.5 Optional Accessories

Part Number / Item	
4B01XUD12060AT1	Adapter,I:100-240V,O:12V/5A, 2P
47109741364AJ01	9741364A00,M.2 2230 AC WIFI/BT+ANT.

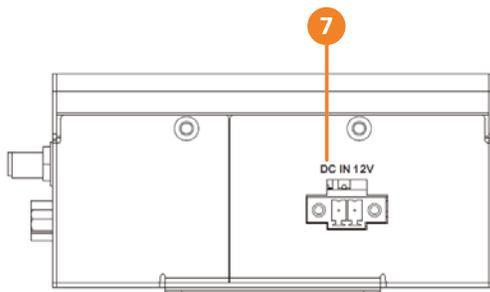
1.6 Physical Description



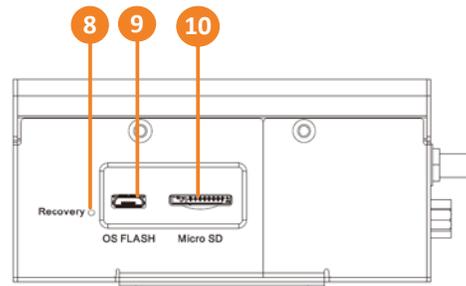
Front Panel



Rear Panel



Left



Right

No.	Name	Description
1	COM Port	Two RS-232 ports.
2	ANT	Two Antenna ports.
3	Power Button	Press the button to turn on or turn off the system.
4	LAN	One 10/100/1000 Base-Tx Ethernet ports.
5	USB 3.2 Gen 1	Four USB 3.2 Gen 1 ports.
6	HDMI	One HDMI 1.4b video output.
7	DC Power In	Connect DC 12V power source to the Power Input port.
8	Recovery	Press to restore to factory default.
9	OS Flash	One OS Flash port.
10	Micro SD	Micro SD slot.

Chapter 2

2. Installation

2.1 M.2 Module installation

M.2 module attaches to the main board. NVIDIA Jetson Nano module must be removed prior to installing M.2 module.

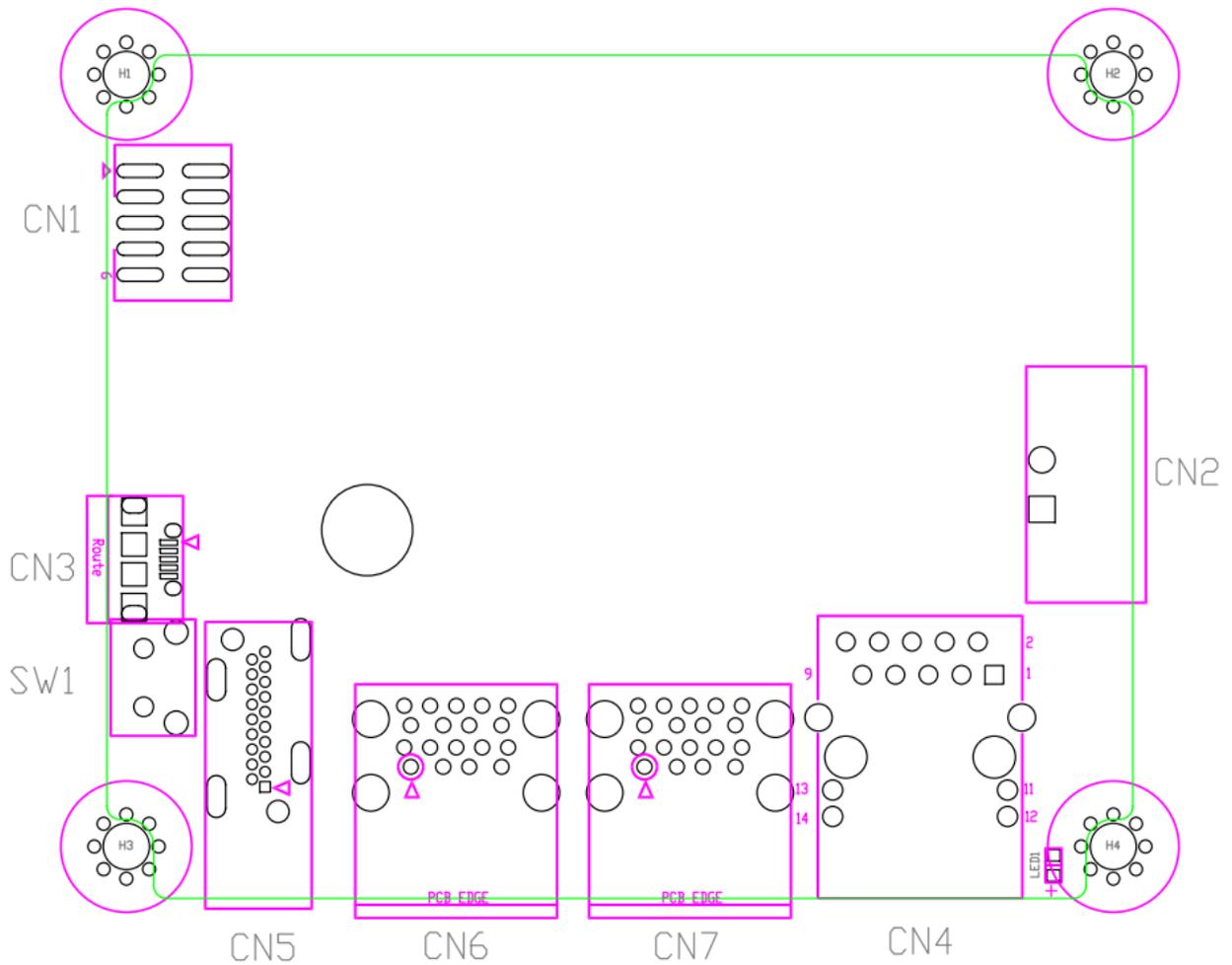


Chapter 3

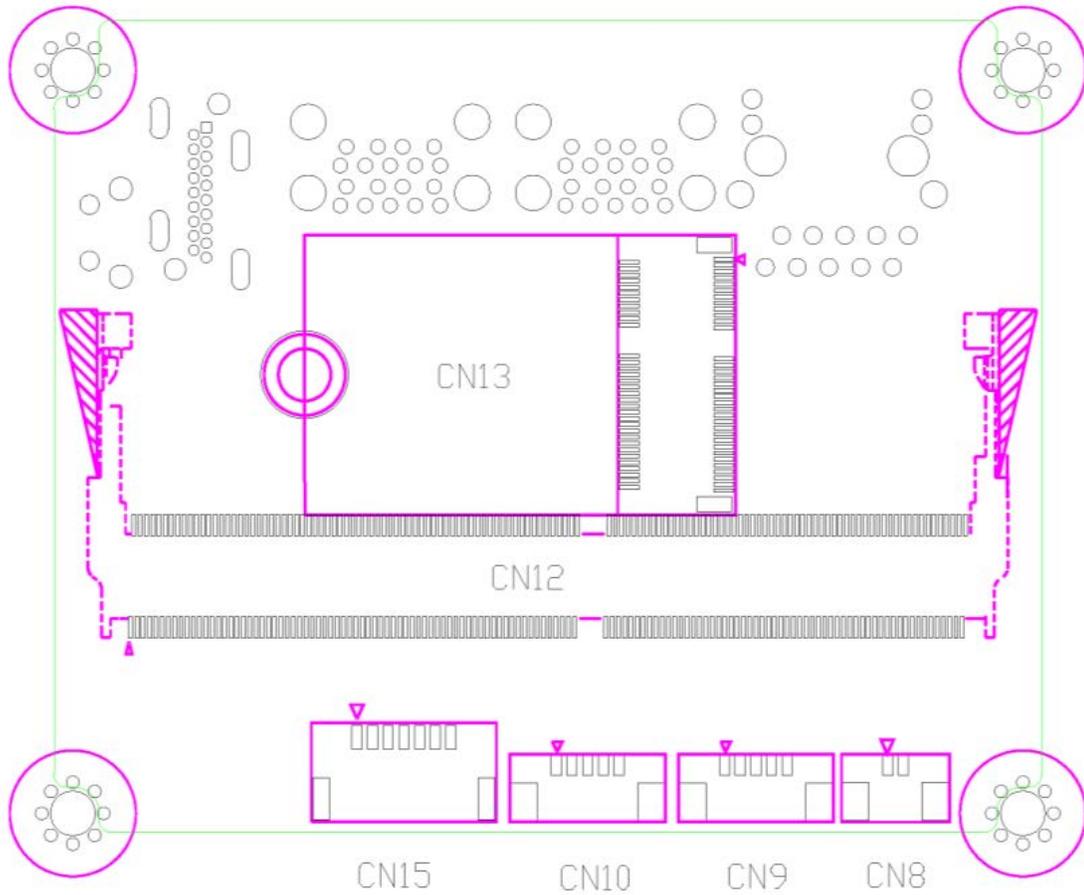
3. Jumpers and Connectors on the Motherboard

Users can use the jumpers and connectors to configure different applications.

Component Side



Module Side



3.1 List of Jumpers

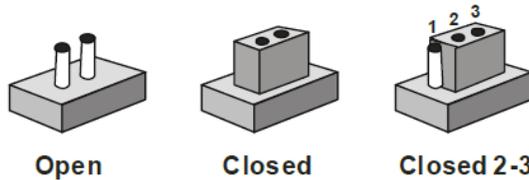
The board has a number of jumpers that allow you to configure your system to suit your application. The table below shows the function of each of the board's jumpers

Label	Function
CN1 (Pin7-8)	AT/ATX mode select

3.1.1 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 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.

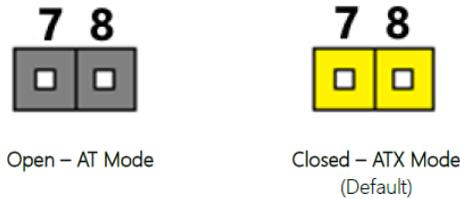


A pair of needle-nose pliers may be helpful when working with jumpers. If you have any questions about the best hardware configuration for your application, contact your local distributor or sales representative before you make any changes.

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

3.1.2 AT/ATX Mode Select(CN1 Pins 7-8)

The AT/ATX Mode Select functions by connecting pins 7 and 8 of CN1. To prevent damage to the system, do not connect pins 7 and 8 to any other pin.



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

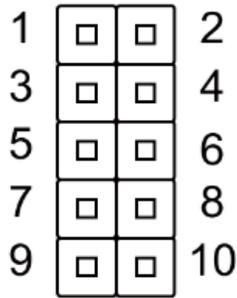
3.2 List of Connectors

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	Front Panel Connector
CN2	DC Power In connector
CN3	Micro USB for Flash image
CN4	Giga LAN Connector
CN5	HDMI Connector
CN6	Dual USB 3.2 Gen 1Connector
CN7	Dual USB 3.2Gen 1Connector
CN8	RTC Connector
CN9	COM1 Connector
CN10	COM2 Connector
CN12	Jetson NANO CPU module connector
CN13	M.2 E key
CN15	UART for Debug
SW1	Recovery switch

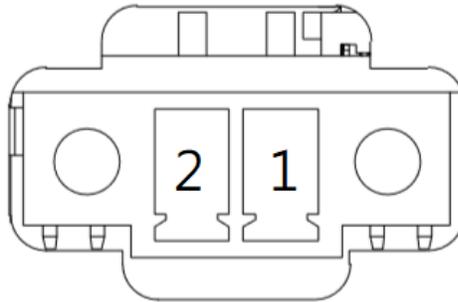
Note: USB 3.2 Gen 1 uses the same specifications as USB 3.0 (transfer rate 5Gbs).

3.2.1 Front Panel Connector (CN1)



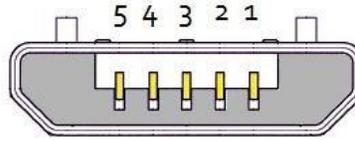
Pin	Signal	Pin	Signal
1	Button Power	2	GND
3	Recovery	4	GND
5	Reset	6	GND
7	Latch set	8	Latch set
9	PWR LED	10	+5V

3.2.2 DC Power In Connector (CN2)



Pin	Signal	Pin	Signal
1	PWR_IN	2	GND

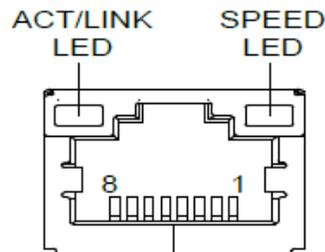
3.2.3 USB 2.0 Connector for Flash Image (CN3)



USB Micro-B

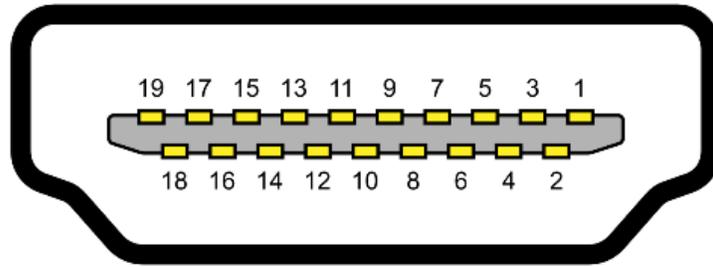
Pin	Signal	Pin	Signal
1		2	USB1-
3	USB1+	4	
5	GND		

3.2.4 LAN RJ45 Port (CN4)



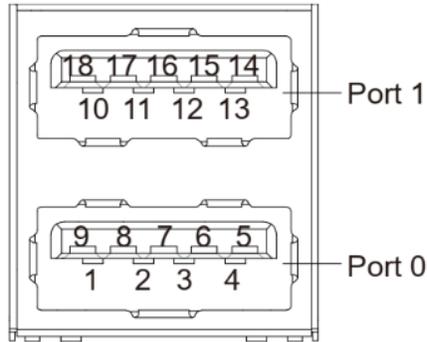
Pin	Signal	Pin	Signal
1	MDI0+	2	MDI0-
3	MDI1+	4	MDI1-
5	MDI2+	6	MDI2-
7	MDI3+	8	MDI3-

3.2.5 HDMI Connector (CN5)



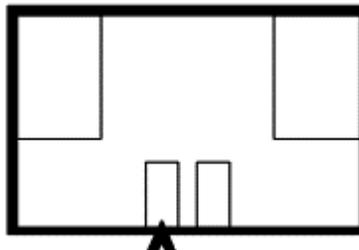
Pin	Signal	Pin	Signal
1	HDMI_DATA_P	2	GND
3	HDMI_DATA_N	4	HDMI_DATA1_P
5	GND	6	HDMI_DATA1_N
7	HDMI_DATA0_P	8	GND
9	HDMI_DATA0_N	10	HDMI_CLK_P
11	GND	12	HDMI_CLK_N
13	NC	14	NC
15	HDMI_SCL	16	HDMI_SDA
17	GND	18	HDMI_PWR
19	HDMI_HDP		

3.2.6 Dual USB 3.2 Gen 1 Connector (CN6/CN7)



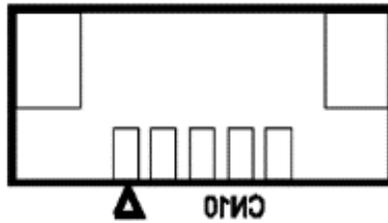
Pin	Signal	Pin	Signal
U1	VBUS_1	U10	VBUS_2
U2	(A)D-	U11	(B)D-
U3	(A)D+	U12	(B)D+
U4	GND	U13	GND
U5	(A)SSRX-	U14	(B)SSRX-
U6	(A)SSRX+	U15	(B)SSRX+
U7	GND	U16	GND
U8	(A)SSTX-	U17	(B)SSTX-
U9	(A)SSTX+	U18	(B)SSTX+

3.2.7 RTC Battery Connector (CN8)



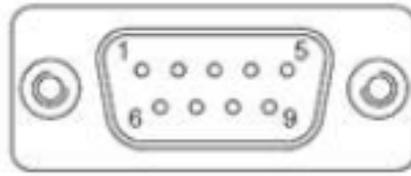
Pin	Signal	Pin	Signal
1	+3V	2	GND

3.2.8 +5V Output for SATA HDD (CN9/CH10)



Pin	RS-232	UART (3.3V)
1	TXD	
2	RXD	
3		UART TXD
4		UART RXD
5	GND	
6		
7		
8		
9		

3.2.9 COM Port Connector (System)



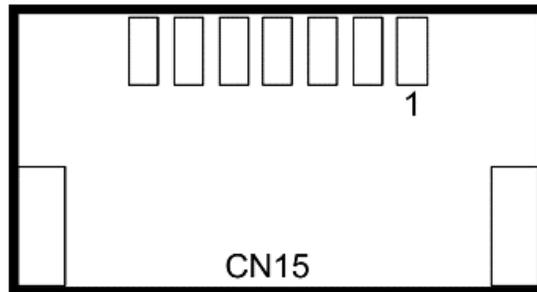
Pin	RS-232	UART (3.3V)
1		
2	RXD	
3	TXD	
4		
5	GND	
6		
7		UART RXD
8		UART TXD
9		

3.2.10 Jetson Nano CPU Module Connector (CN12)

Signal Name	Pin # Top Odd	Pin # Bottom Even	Signal Name
GND	1	2	GND
CSI1 D0 N	3	4	CSI0 D0 N
CSI1 D0 P	5	6	CSI0 D0 P
GND	7	8	GND
RSVD	9	10	CSI0 CLK N
RSVD	11	12	CSI0 CLK P
GND	13	14	GND
CSI1 D1 N	15	16	CSI0 D1 N
CSI1 D1 P	17	18	CSI0 D1 P
GND	19	20	GND
CSI3 D0 N	21	22	CSI2 D0 N
CSI3 D0 P	23	24	CSI2 D0 P
GND	25	26	GND
CSI3 CLK N	27	28	CSI2 CLK N
CSI3 CLK P	29	30	CSI2 CLK P
GND	31	32	GND
CSI3 D1 N	33	34	CSI2 D1 N
CSI3 D1 P	35	36	CSI2 D1 P
GND	37	38	GND
DP0 TXD0 N	39	40	CSI4 D2 N
DP0 TXD0 P	41	42	CSI4 D2 P
GND	43	44	GND
DP0 TXD1 N	45	46	CSI4 D0 N
DP0 TXD1 P	47	48	CSI4 D0 P
GND	49	50	GND
DP0 TXD2 N	51	52	CSI4 CLK N
DP0 TXD2 P	53	54	CSI4 CLK P
GND	55	56	GND
DP0 TXD3 N	57	58	CSI4 D1 N
DP0 TXD3 P	59	60	CSI4 D1 P
GND	61	62	GND
DP1 TXD0 N	63	64	CSI4 D3 N
DP1 TXD0 P	65	66	CSI4 D3 P
GND	67	68	GND
DP1 TXD1 N	69	70	DSI D0 N
DP1 TXD1 P	71	72	DSI D0 P
GND	73	74	GND
DP1 TXD2 N	75	76	DSI CLK N
DP1 TXD2 P	77	78	DSI CLK P
GND	79	80	GND
DP1 TXD3 N	81	82	DSI D1 N
DP1 TXD3 P	83	84	DSI D1 P
GND	85	86	GND
GPIO0	87	88	DP0 HPD
SPI0 MOSI	89	90	DP0 AUX N
SPI0 SCK	91	92	DP0 AUX P
SPI0 MISO	93	94	HDMI CEC
SPI0 CS0*	96	96	DP1 HPD
SPI0 CS1*	97	98	DP1 AUX N
UART0 TXD	99	100	DP1 AUX P
UART0 RXD	101	102	GND
UART0 RTS*	103	104	SPI1 MOSI
UART0 CTS*	105	106	SPI1 SCK
GND	107	108	SPI1 MISO
USB0 D N	109	110	SPI1 CS0*
USB0 D P	111	112	SPI1 CS1*
GND	113	114	CAM0 PWDN
USB1 D N	115	116	CAM0 MCLK
USB1 D P	117	118	GPIO01
GND	119	120	CAM1 PWDN
USB2 D N	121	122	CAM1 MCLK
USB2 D P	123	124	GPIO02
GND	125	126	GPIO03
GPIO04	127	128	GPIO05
GND	129	130	GPIO06
PCIE0 RX0 N	131	132	GND

Signal Name	Pin # Top Odd	Pin # Bottom Even	Signal Name
PCIE0 RX0 P	133	134	PCIE0 TX0 N
GND	135	136	PCIE0 TX0 P
PCIE0 RX1 N	137	138	GND
PCIE0 RX1 P	139	140	PCIE0 TX1 N
GND	141	142	PCIE0 TX1 P
RSVD	143	144	GND
KEY	KEY	KEY	KEY
RSVD	145	146	GND
GND	147	148	PCIE0 TX2 N
PCIE0 RX2 N	149	150	PCIE0 TX2 P
PCIE0 RX2 P	151	152	GND
GND	153	154	PCIE0 TX3 N
PCIE0 RX3 N	155	156	PCIE0 TX3 P
PCIE0 RX3 P	157	158	GND
GND	159	160	PCIE0 CLK N
USBSS RX N	161	162	PCIE0 CLK P
USBSS RX P	163	164	GND
GND	165	166	USBSS TX N
RSVD	167	168	USBSS TX P
RSVD	169	170	GND
GND	171	172	RSVD
RSVD	173	174	RSVD
RSVD	175	176	GND
GND	177	178	MOD SLEEP*
PCIE WAKE*	179	180	PCIE0 CLKREQ*
PCIE0 RST*	181	182	RSVD
RSVD	183	184	GBE MDIO N
I2C0 SCL	185	186	GBE MDIO P
I2C0 SDA	187	188	GBE LED LINK
I2C1 SCL	189	190	GBE MDI1 N
I2C1 SDA	191	192	GBE MDI1 P
I2S0 DOUT	193	194	GBE LED ACT
I2S0 DIN	195	196	GBE MDI2 N
I2S0 FS	197	198	GBE MDI2 P
I2S0 SCLK	199	200	GND
GND	201	202	GBE MDI3 N
UART1 TXD	203	204	GBE MDI3 P
UART1 RXD	205	206	GPIO07
UART1 RTS*	207	208	GPIO08
UART1 CTS*	209	210	CLK 32K OUT
GPIO09	211	212	GPIO10
CAM I2C SCL	213	214	FORCE RECOVERY*
CAM I2C SDA	215	216	GPIO11
GND	217	218	GPIO12
SDMMC DAT0	219	220	I2S1 DOUT
SDMMC DAT1	221	222	I2S1 DIN
SDMMC DAT2	223	224	I2S1 FS
SDMMC DAT3	225	226	I2S1 SCLK
SDMMC CMD	227	228	GPIO13
SDMMC CLK	229	230	GPIO14
GND	231	232	I2C2 SCL
SHUTDOWN REQ*	233	234	I2C2 SDA
PMIC BBAT	235	236	UART2 TXD
POWER EN	237	238	UART2 RXD
SYS RESET*	239	240	SLEEPWAKE*
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

3.2.11 UART Debug Port Connector (CN15)



Pin	
1	3.3V
2	UART0 TXD
3	UART0 RXD
4	GND
5	I2C SCL
6	I2C SDA
7	GND

Chapter 4

4. Specification

System	
CPU	Quad-core ARM® Cortex®-A57 MPCore processor
GPU	NVIDIA Maxwell™ architecture with 128 NVIDIA CUDA® cores
Main Memory	Onboard 4 GB 64-bit LPDDR4
OS	16 GB eMMC
Video	
Format	H.265 / H.264
Video Output	HDMI x 1 (2.0 maximum 3840 x 2160)
Video Input	Based on the installed software. EverFocus AiO NVR: up to 8ch.
Resolution	4K @ 60fps x 1 4K @ 30fps x 2 1080p @ 30fps x 8
Interface	
Front I/O Panel	Power LED x 1 USB 3.2 Gen 1 x 4 GbE port x 1 HDMI Port x 1
Left I/O Panel	Power Input x 1
Right I/O Panel	MicroSD x 1 Recovery Button x 1 Micro-USB for Flash OS x 1
Rear I/O Panel	Antenna port x 2 RS-232 port x 2
Expansion Slot	M.2 E-Key 2230 x 1(for WiFi)

Recording	
Format	H.265 / H.264
Resolution	4K @ 60fps x 2 4K @ 30fps x 4 1080p @ 30fps x 16
Storage	
SD Card	MICRO SD X 1
Network	
Ethernet	GbE port x 1
Wi-Fi	Support (optional)
General	
Power Supply	DC 12V (2-pin terminal block)
Dimensions (W x D X H)	114 x 102 x 51.5mm (4.5" x 4.1" x 2.1")
Operating Temp.	32°F ~122°F (0°C ~+50°C)
Storage Temp.	-4°F ~185°F (-20°C ~+85°C)
Storage Humidity	95% @ 40 °C (non-condensing)
Certification	CE, FCC

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