

Jetson Platform

AIB-MO23/MO33-S1

AIB-MN33/MN43-S1

USER MANUAL

Document Change History

Version	Date	Description
V1.0	2026/05/05	Initial Release

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Version 1.0

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Customer Support Overview

Contact your distributor, sales representative, or Aetina's customer service center for technical support if you need additional assistance. Please have the following information ready before you call:

- Product name and serial number
- Description of your peripheral attachments
- Description of your software (operating system, version, application software, etc.)
- A complete description of the problem
- The exact wording of any error messages

Visit the Aetina website at <https://www.Aetina.com/support-warranty-policy.php> where you can find the latest information about the product.

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Product Warranty (2 years)

Aetina warrants to you, the original purchaser, that each of its products will be free from defects in materials and workmanship for two years from the date of purchase.

This warranty does not apply to any products which have been repaired or altered by persons other than repair personnel authorized by Aetina, or which have been subject to misuse, abuse, accident or improper installation. Aetina assumes no liability under the terms of this warranty as a consequence of such events.

Because of Aetina's high quality-control standards and rigorous testing, most of our customers never need to use our repair service. If an Aetina product is defective, it will be repaired or replaced at no charge during the warranty period. For out of warranty repairs, you will be billed according to the cost of replacement materials, service time and freight. Please consult your dealer for more details.

If you think you have a defective product, follow these steps:

1. Collect all the information about the problem encountered. (For example, CPU speed, Aetina products used other hardware and software used, etc.) Note anything abnormal and list any onscreen messages you get when the problem occurs.
2. Call your dealer and describe the problem. Please have your manual, product, and any helpful information readily available.
3. If your product is diagnosed as defective, obtain an RMA (return merchandise authorization) number from your dealer. This allows us to process your return more quickly.
4. Carefully pack the defective product, a fully-completed Repair and Replacement Order Card and a photocopy of the proof of purchase date (such as your sales receipt) in a shippable container. A product returned without proof of the purchase date is not eligible for warranty service.
5. Write the RMA number visibly on the outside of the package and ship it prepaid to your dealer.

ESD Warning

This product, like all electronic products, uses the product that can be damaged by electrostatic discharge (ESD). When handling, care must be taken so that the devices are not damaged. Damage due to inappropriate handling is not covered by the warranty. The following precautions must be taken:

- Do not open the protective conductive packaging until you have read the following and are at an approved anti-static workstation.
- If working on a prototyping board, use a soldering iron or station that is marked as ESD-safe.
- Always disconnect the product from the prototyping board when it is being worked on.
- Always discharge yourself by touching a grounded bare metal surface or approved anti-static mat before picking up an ESD - sensitive electronic component.
- Use an approved anti-static mat to cover your work surface.

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 equipment should be noted.
2. Make sure the power source matches the power rating of the device.
3. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
4. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.
5. Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
6. Always completely disconnect the power before working on the system's hardware.
7. Keep this equipment away from humidity.
8. Put this equipment on a reliable surface during installation. Dropping it or letting it fall may cause damage.
9. The openings on the enclosure are for air convection. Protect the equipment from overheating. **DO NOT COVER THE OPENINGS.**
10. Be sure that the room in which you choose to operate your system has adequate air circulation. Ensure that the chassis cover is secure.
11. The chassis design allows cooling air to circulate effectively. An open chassis permits air leaks, which may interrupt and redirect the flow of cooling air from internal components.
12. Never pour any liquid into an opening. This may cause fire or electrical shock.
13. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.
14. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
15. If any of the following situations arises, please the contact our service personnel:
 - 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
 - vi. Any obvious signs of damage displayed on the device

Contents

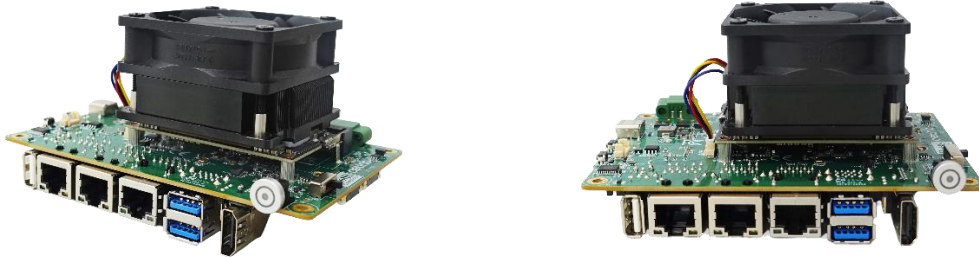
1. Introduction	7
1.1 Features	7
1.2 Specifications	8
2. Hardware Information	10
2.1 Block Diagram	10
2.2 Connectors, LEDs, and Switches Locations	11
2.3 Connectors and Switches Description	12
2.4 Connectors and Pinout	13
2.5 Power Consumption	28
2.6 Mechanical Dimensions	29
3. Software/BSP Installation	30
4. Recovery Mode	30
5. Initial Setup	31
5.1 Prepare the materials	31
5.2 Hardware connection	31
5.3 Setup details	31

1. Introduction

AIB-MO23/AIB-MO33-S1 & AIB-MN33/AIB-MN43-S1 series supports NVIDIA Jetson Orin Nano & NX series modules, These platforms also support **Super Mode** operation with the updated hardware design, and you can quickly emulate the functionality of your desired end product for software development and hardware verification.

To build a functional prototype of your target system you will need:

- NVIDIA Jetson Orin Nano 4/8GB & Orin NX 8/16GB module
- Carrier board
- Power adaptor



1.1 Features

- Supports NVIDIA Jetson Orin Nano 4/8GB & Orin NX 8/16GB
- Storage supports M.2 2242 (NVMe 128GB built-in)
- 1 x M.2 B-Key 3052 slot
- 1 x M.2 E-Key 2230 slot
- 1 x RJ-45 GbE Port
- 2 x IEEE 802.3af GbE PSE Ports
- Wide Input Voltage Range 12 to 24 VDC
- Operating Temperature -25°C ~ +80°C
- Supports OOB (out-of-band) powered by Innodisk (optional)

1.2 Specifications

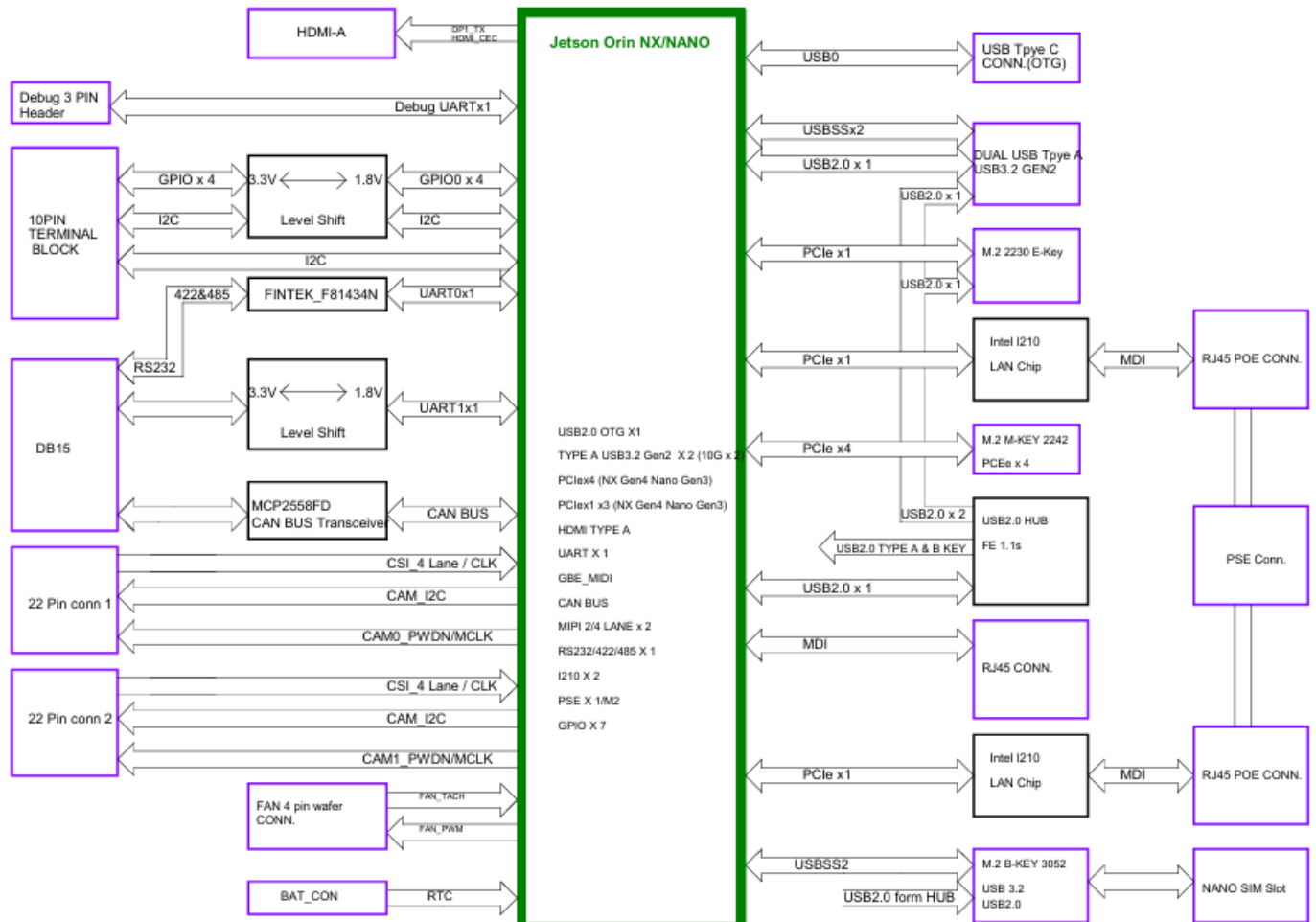
■ Carrier board specifications

Specification	AIB-MO23-S1	AIB-MO33-S1	AIB-MN33-S1	AIB-MN43-S1
Module Compatibility	Nvidia Jetson Orin Nano 4GB	Nvidia Jetson Orin Nano 8GB	Nvidia Jetson Orin NX 8GB	Nvidia Jetson Orin NX 16GB
AI Performance	34 TOPS	67 TOPS	117 TOPS	157 TOPS
GPU	512 Core NVIDIA Ampere, with 16 Tensor Cores	1024 Core NVIDIA Ampere, with 32 Tensor Cores	1024 Core NVIDIA Ampere, with 32 Tensor Cores	
CPU	6-core Arm® Cortex®-A78AE v8.2 64-bit 1.5MB L2 + 4MB L3		6-core Arm® Cortex®-A78AE v8.2 64-bit 1.5MB L2 + 4MB L3	8-core Arm® Cortex®-A78AE v8.2 64-bit 2MB L2 + 4MB L3
Memory	4GB 64-bit LPDDR5 51 GB/s	8GB 128-bit LPDDR5 68 GB/s	8GB 128-bit LPDDR5 102.4 GB/s	16GB 128-bit LPDDR5 102.4 GB/s
Storage	1 x M.2 M-Key 2242 (NVMe 128GB built-in)			
Display	1 x HDMI 1.4 Type A		1 x HDMI 2.0 Type A	
Camera Input	2 x 4 lane MIPI CSI-2, 22 pin FPC Connector			
LAN	1 x RJ-45 GbE Port			
PoE Interface	2 x RJ-45 GbE PSE (2 x IEEE 802.3af compliant, Power Output 15W/Per Port, 30W total output)			
USB	2 x USB 3.2 Gen2 Type-A (supports up to 10Gbps shared) 1 x USB 2.0 Type A 1 x OTG Type-C			
I/O Interfaces	7 x GPIO, 1 x SPI, 3 x I2C, 1 x UART, 1 x UART (Debug Only), 1 x CAN (Isolation; support CAN FD), 1 x RS-422/485/232 (switch 3-in1)			
Expansion	1 x M.2 B-Key 3052 (LTE/4G/5G) 1 x M.2 E-Key 2230 (WiFi/BT) 1 x M.2 M-Key 2242 (NVMe 128GB built-in; PCIe x4 Gen3)		1 x M.2 B-Key 3052 (LTE/4G/5G) 1 x M.2 E-Key 2230 (WiFi/BT) 1 x M.2 M-Key 2242 (NVMe 128GB built-in; PCIe x4 Gen4)	
MISC. Function	1 x Recovery Button			
Power Consumption	Idle: 15 W		Idle: 16 W	

	Full Loading: 77 W	Full Loading: 78* W
	Idle configuration: Connect with Keyboard, Mouse and HDMI Display Full Loading configuration: Connect with Keyboard, Mouse, HDMI Display and LAN with CPU and GPU 100% Loading	
Power Input/ Connector	DC-in 12-24 VDC / 2-Pin Terminal Block	
Dimension (W x D x H)	127 x 85.75 x 28.45 mm (5.00 x 3.38 x 1.12 in)	
Net Weight	348 g (0.767 lb) w/ Fansink	
Temperature	Operating Temp.: -25°C ~ +80°C (-13° F ~ +176°F) Storage Temp.: -40°C ~ +85°C (-40° F ~ +185°F) With full CPU+GPU stressing: System non-throttling at 70C with 40W (MAXN Mode)	
Humidity	95% @ 40°C (104°F) (non-condensing)	
Software Support	Linux (Support NVIDIA JetPack 6.2 and above)	
Certification	CE/FCC Class A/UKCA	

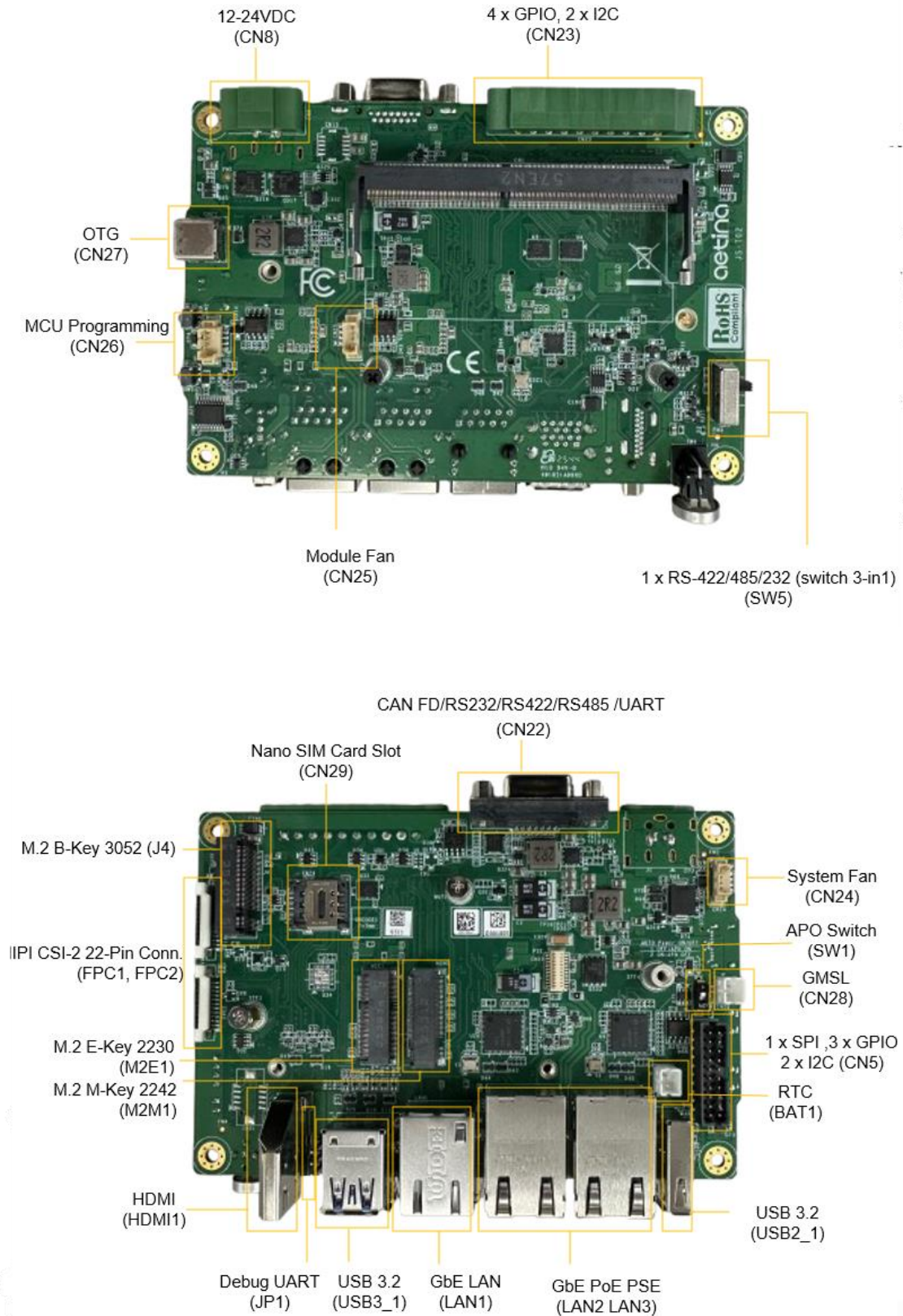
2. Hardware Information

2.1 Block Diagram



AIB-MO23/33-S1 & AIB-MN33/43-S1 Block diagram

2.2 Connectors, LEDs, and Switches Locations



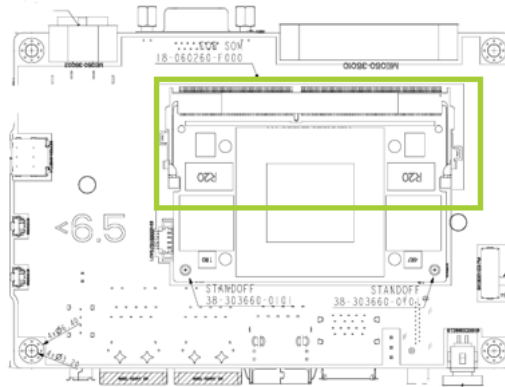
2.3 Connectors and Switches Description

Item	Detail
CN1	Jetson Orin Nano/NX connector
HDMI1	HDMI Type-A connector
M2M1	M.2 M-Key 2242 connector
M2E2	M.2 E-Key 2230 connector
J4	M.2 B-Key 3052 connector
USB2_1	1 x USB 2.0 Type-A
USB3_1	2 x USB 3.2 Gen2 Type-A
FPC1, FPC2	MIPI CSI-2 22-Pin Connector
CN27	OTG Type-C
LAN1	1 x RJ-45 GbE Port
LAN2, LAN3	2 x RJ-45 GbE PSE
CN5	2 x 10P P:2.0 support SPI/ GPIO/ I2C
CN22	DB15 support CAN FD/RS232/RS422/RS485 /UART
CN23	1 x 10P P:3.5 support GPIO /I2C
CN29	Nano SIM Card Slot
CN8	DC Power input connector
CN24	1 x 4P P:1.25 System Fan
CN25	1 x 4P P:1.25 Module Fan
SW1	To enable APO function by switch/ RS485&RS422 mode switch
SW2	Switch RS-422/485/232 (switch 3-in1)
BAT1	1 x 2P P:2.0 RTC Connector
CN26	1 x 4P P:1.25 MCU Programming (Aetina internal use)
CN28	1 x 2P P:2.0 GMSL Power supports 12V
S1	Recovery Button
JP1	Debug UART

2.4 Connectors and Pinout

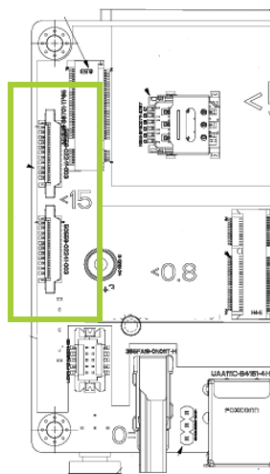
Here are the connectors and pinout information of AIB-MO23/33 & AIB-MN33/43 carrier board below.

■ Jetson Orin Nano/NX Module Connector



Item	Description
Location	CN1
Type	DDR4 SODIMM 260-Pin
Pinout	Please refer to NVIDIA Jetson Orin Nano/NX System-on-Module datasheet

■ MIPI CSI-2 120-Pin Connectors



Item	Description
Location	FPC1
Type	4-Lane MIPI CSI-2 22-pin connector
Notes	Support FFC/FPC cable

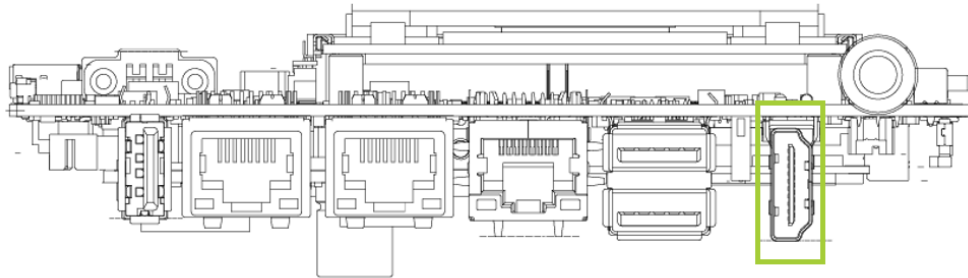
Pin #	Definition	Pin #	Definition
1	VDD_3V3	2	CAMA_I2C_SDA
3	CAMA_I2C_SCL	4	GND
5	CAM_CK0	6	CAPD0
7	GND	8	CSIA_D3P
9	CSIA_D3N	10	GND
11	CSIA_D2P	12	CSIA_D2N
13	GND	14	CSIA_CLKP
15	CSIA_CKLN	16	GND
17	CSIA_D1P	18	CSIA_D1N
19	GND	20	CSIA_D0P
21	CSIA_D0N	22	GND

Item	Description
Location	FPC2
Type	4-Lane MIPI CSI-2 22-pin connector
Notes	Support FFC/FPC cable

Pin #	Definition	Pin #	Definition
1	VDD_3V3	2	CAMB_I2C_SDA
3	CAMB_I2C_SCL	4	GND
5	CAM_CK1	6	CBPD0
7	GND	8	CSIB_D3P
9	CSIB_D3N	10	GND
11	CSIB_D2P	12	CSIB_D2N
13	GND	14	CSIB_CK1P
15	CSIB_CKN	16	GND
17	CSIB_D1P	18	CSIB_D1N

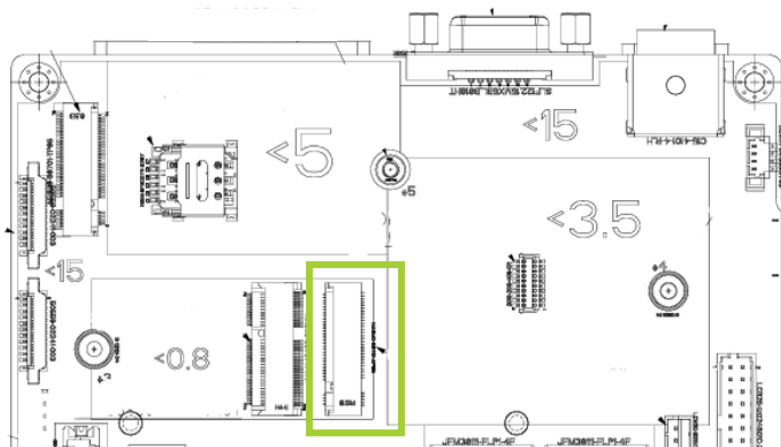
19	GND	20	CSIB_D0P
21	CSIB_D0N	22	GND

■ HDMI Type-A Connector



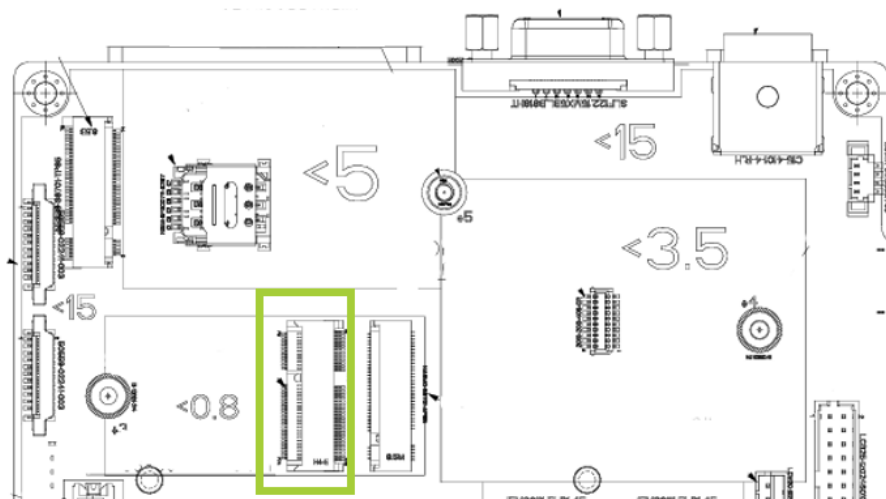
Item	Description
Location	HDMI1
Type	HDMI Type-A female connector
Pinout	Please refer to HDMI Type-A Standard

■ M.2 M-Key Connector



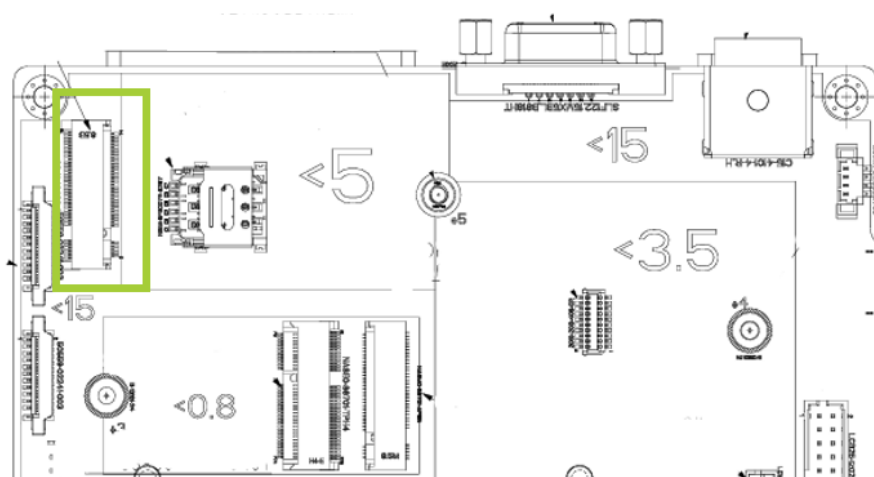
Item	Description
Location	J2
Type	M.2 M-Key 2242
Pin	Please refer to M.2 M-Key Standard
Notes	128 GB storage built-in support NVMe, PCIe x4 Gen3 for Orin Nano/PCIe x4 Gen4 for Orin NX)

■ M.2 E-Key Connector



Item	Description
Location	J3
Type	M.2 E-Key 2230
Pin	Refer to M.2 E-Key Standard
Notes	Supports Wi-Fi / Bluetooth (USB 2.0, PCIe x1 Gen3 for Orin Nano / PCIe x1 Gen4 for Orin NX)

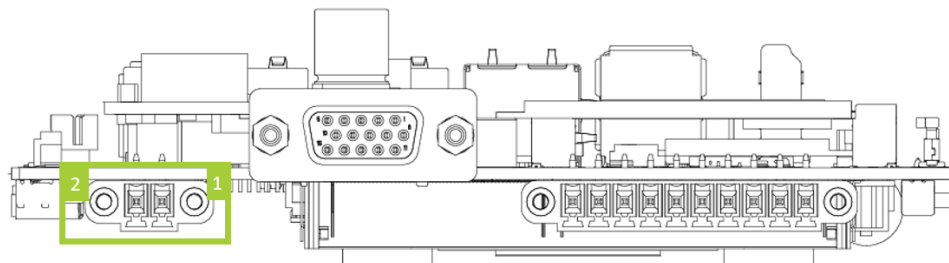
■ M.2 B-Key Connector



Item	Description
Location	J4
Type	M.2 B-Key 3052

Pinout	Please refer to M.2 B-Key Standard
Notes	Supports LTE / 4G / 5G (USB 3.2 Gen1, USB 2.0)

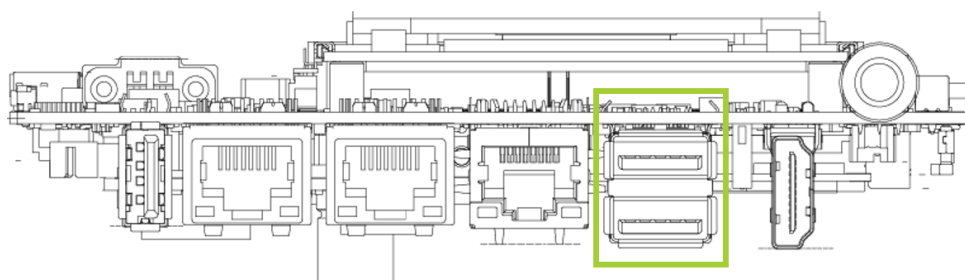
■ DC Power Input Terminal Block



Item	Description
Location	CN8
Type	2-Pin Terminal Block

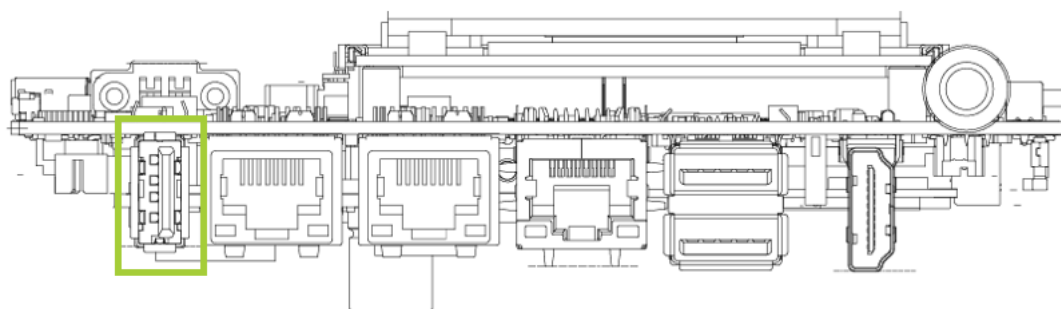
Pin #	Definition	Pin #	Definition
1	VIN	2	GND

■ Dual USB 3.2 Gen2 Type-A Connector



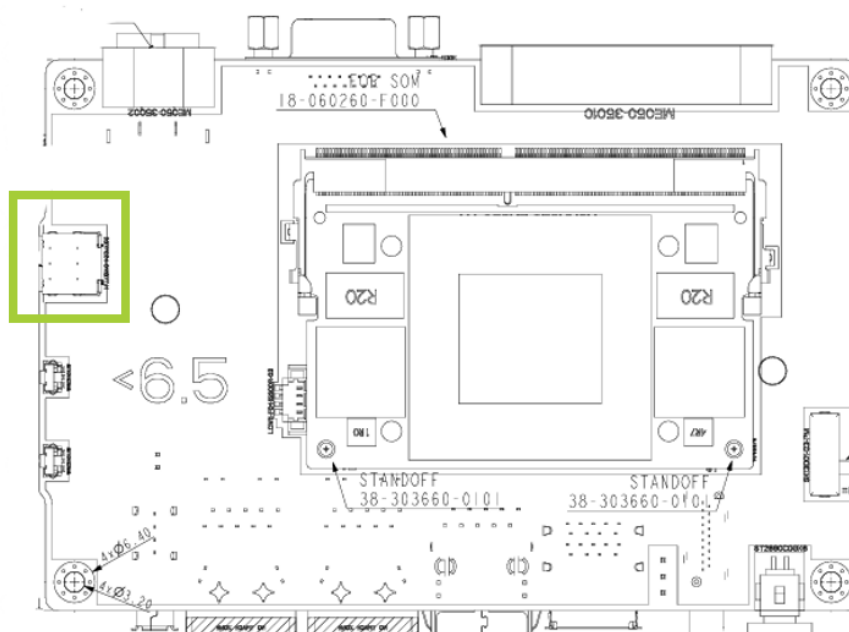
Item	Description
Location	USB3_1
Type	Type-A USB connector
Pinout	Please refer to USB Standard

■ USB 2.0 Type-A Connector



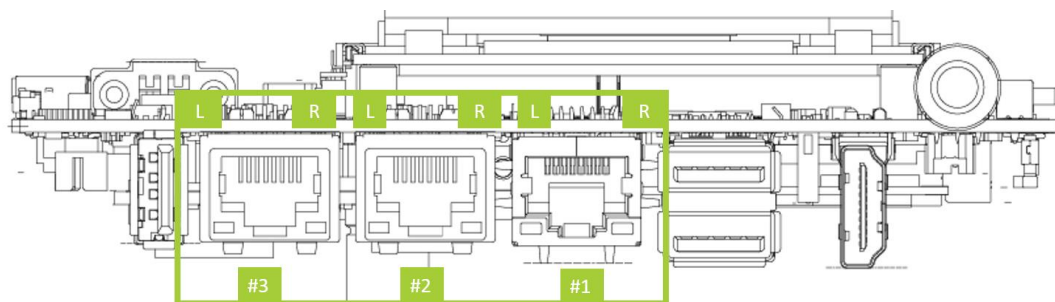
Item	Description
Location	USB2_1
Type	Type-A USB connector
Pinout	Please refer to USB Standard

■ OTG Type-C Connector



Item	Description
Location	CN13
Type	USB TYPE-C connector
Pinout	Please refer to USB standard
Notes	Support OTG function only

■ Gigabit Ethernet Connector



Item	Description
Location	LAN1
Type	RJ-45 connector
Pinout	Please refer to Ethernet standard

LAN1 LED Status Indicator (Native from Jetson Module))

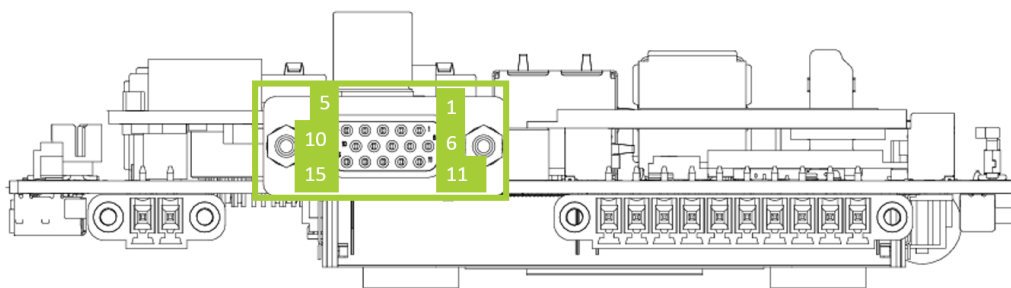
LAN	Function	Color	Status	Description
L (Left)	Link Status	Green	ON	Link established
			Blinking	Data activity
			OFF	No link
R (Right)	Link Speed	Yellow	ON	1Gbps
			OFF	10Mbps 100 Mbps

Item	Description
Location	LAN2 / LAN3
Type	RJ-45 connector
Pinout	Please refer to Ethernet standard

#LAN2/ LAN3 LED Status Indicator (Intel i210-AT)

LAN	Function	Color	Status	Description
L (Left)	Link Status	Green	ON	Link established
			Blinking	Data activity
			OFF	No link
R (Right)	Link Speed	Yellow	ON	1Gbps
			OFF	10Mbps 100 Mbps

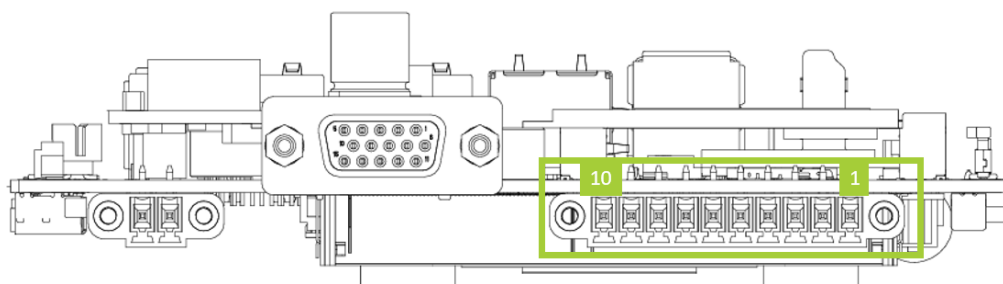
■ 15-pin D-sub Connector



Item	Description
Location	CN22
Type	15-pin D-sub female connector

Pin #	Definition	Pin #	Definition
1	5V_OUT	2	CANH
3	CANL	4	GND
5	UART1_TXD_HDR_3V3	6	UART1_RXD_HDR_3V3
7	UART1_CTS_HDR_3V3	8	UART_RTS_HDR_3V3
9	COM1_DCD	10	COM1_SIN
11	COM1-SOUT	12	COM1_DTR
13	COM1-RTS	14	COM1-CTS
15	GND		

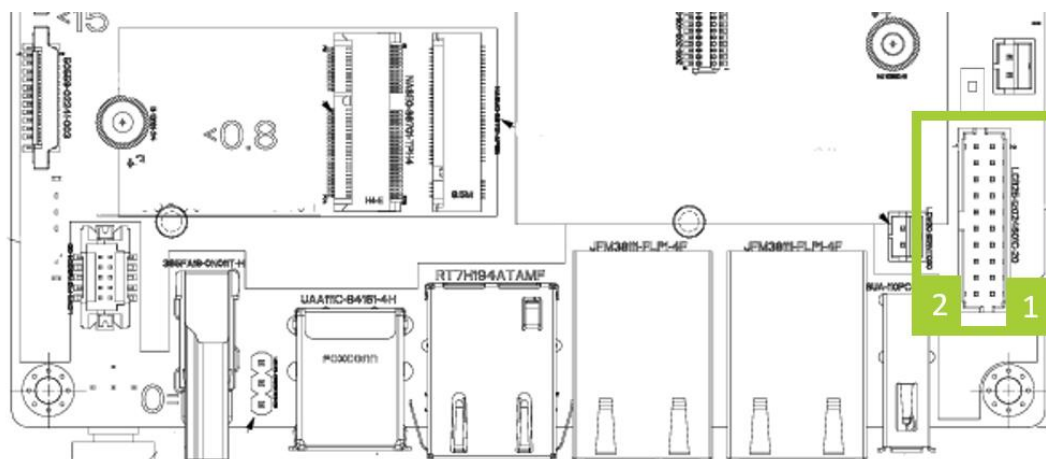
Terminal Block Connector (GPIO / I²C)



Item	Description
Location	CN23
Type	1 x 10P P:3.5 terminal block

Pin #	Definition	Pin #	Definition
1	VDD_5V	2	GPIO_1 (GPIO01: PQ.05 453) Input / PU
3	GPIO_2 (GPIO011: PQ.06 454) Input / PU	4	GPIO_3 (GPIO12: PN.01 433) Input / PU
5	GPIO_4 (GPIO13: PH.00 391) Input / PU	6	I2C_CLK_3V3
7	I2C_DAT_3V3	8	I2C_SCL
9	I2C_SDA	10	GND

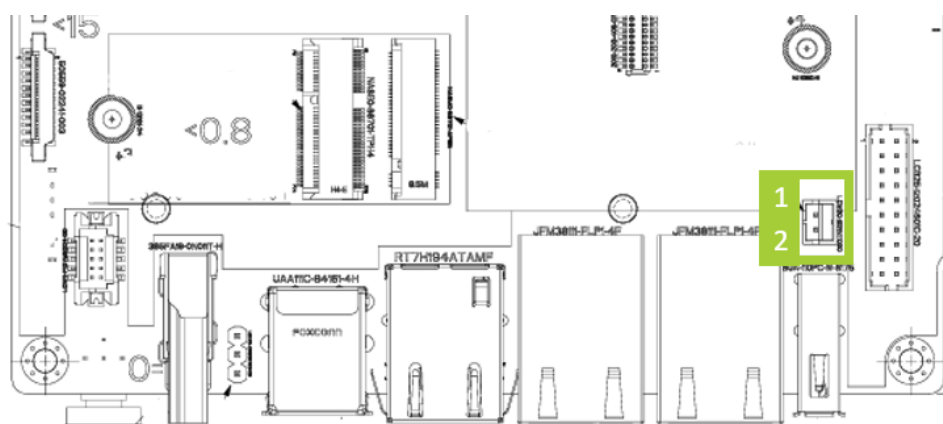
■ MISC I/O Connector (SPI/ GPIO/ I²C)



Item	Description
Location	CN5
Type	2*10P P:2.0mm H:7mm Pin header

Pin #	Definition	Pin #	Definition
1	VDD_3V3	2	VDD_5V
3	I2C_SCL	4	NC
5	I2C_SDA	6	NC
7	I2C1_SCL	8	SPI0_SCK_3V3
9	I2C1_SDA	10	SPI0_MISO_3V3
11	GPIO_5 (GPIO07: PG.06 389) Input / PU	12	SPI0_MOSI_3V3
13	GPIO_6 (GPIO03: PCC.00 328) Input / PU	14	SPIO_CS0_3V3
15	GPIO_7(GPIO04: PCC.01 329) Input / PU	16	CANH
17	GND	18	CANL
19	GND	20	GND

■ RTC Battery Connector

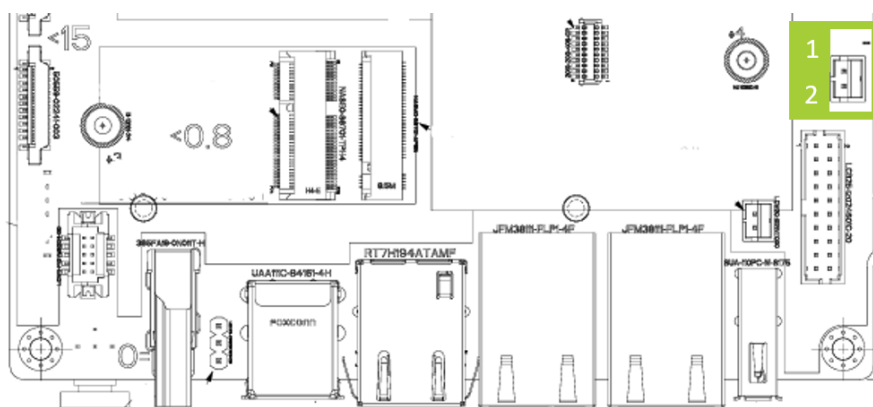


Item	Description
Location	BAT1

Type	1*2P P:2.0mm connector
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Pin #	Definition
1	+
2	-

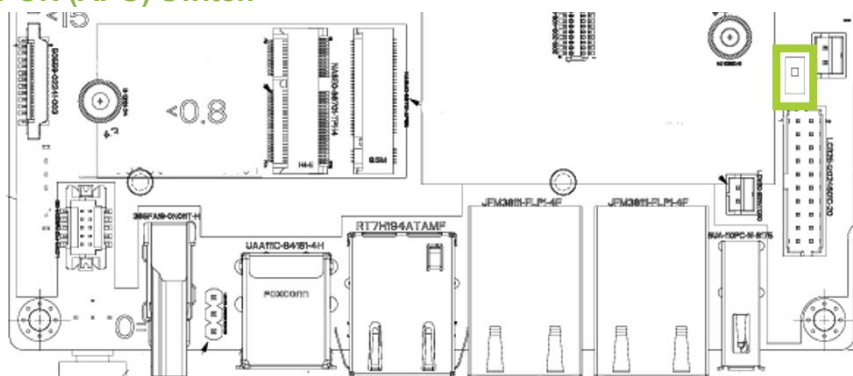
■ GMSL Connector Supports 12V



Item	Description
Location	CN28
Type	1*2P P:2.0mm connector

Pin #	Definition
1	GND
2	VDD_12V

■ Auto Power ON (APO) Switch

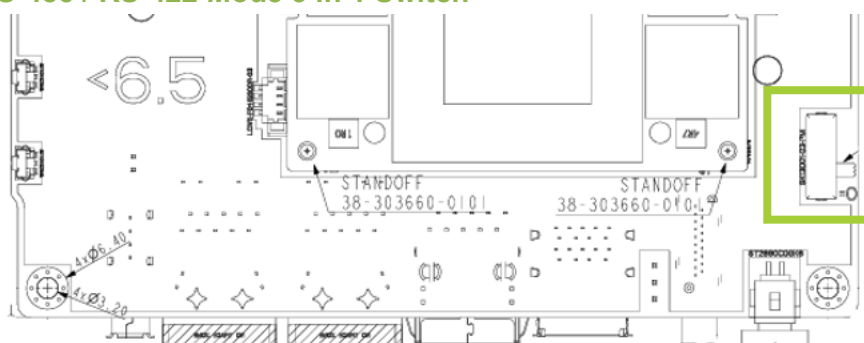


Item	Description
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Location	SW1
Type	DIP Switch
Notes	To enable APO function by Switch

Position	Function
ON	Disable APO
1 (Default)	Enable APO

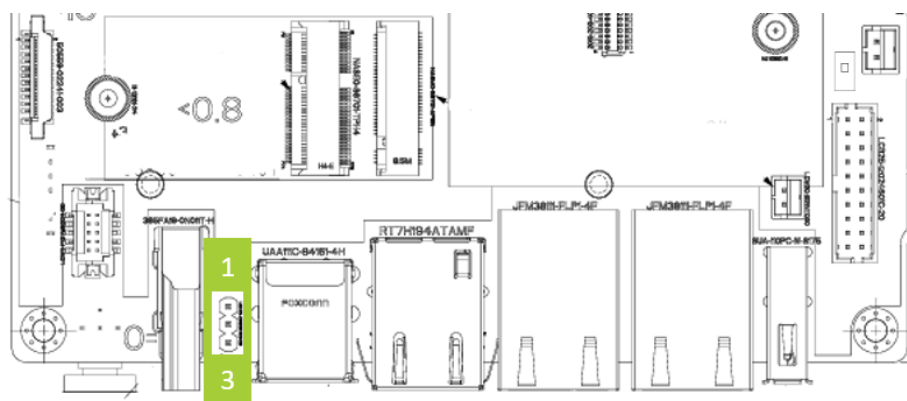
■ RS-232 / RS-485 / RS-422 Mode 3 in 1 Switch



Item	Description
Location	SW5
Type	DIP Switch
Notes	To select RS-232 / RS-485 / RS-422 mode by Switch

Position	Function
MODE_2	RS-232
MODE_1	RS-422
MODE_0 (Default)	RS-485

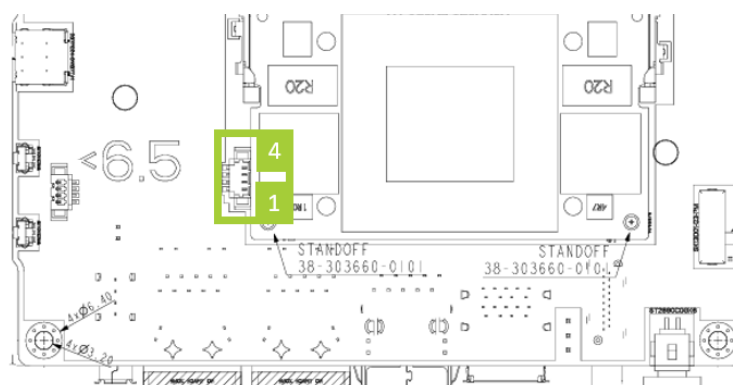
■ Debug UART



Item	Description
Location	JP1
Type	1*3P P:2.54mm Pin connector

Pin #	Definition
1	Debug_UART_TX
2	Debug_UART_RX
3	GND

■ 12V Fan Connector (for module)

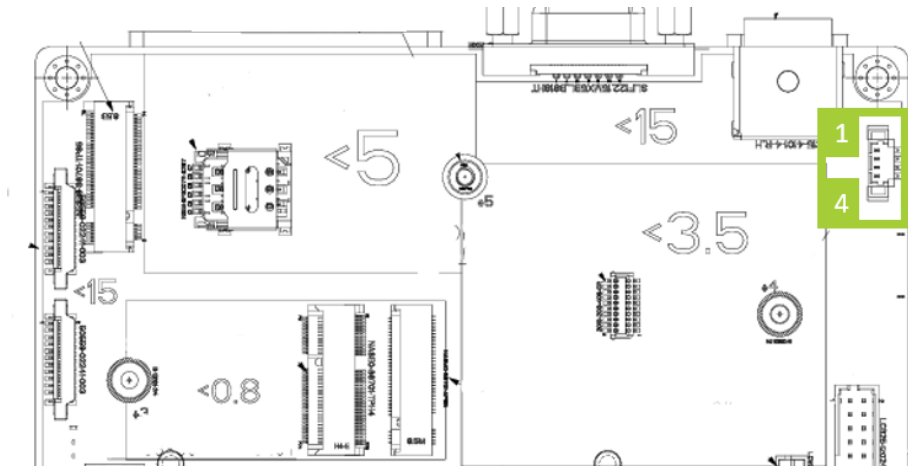


Item	Description
Location	CN25
Type	1*4P 1.25mm Wafer connector

Pin #	Definition	Pin #	Definition
1	GND	2	VDD_12V

3	TACH	4	PWM
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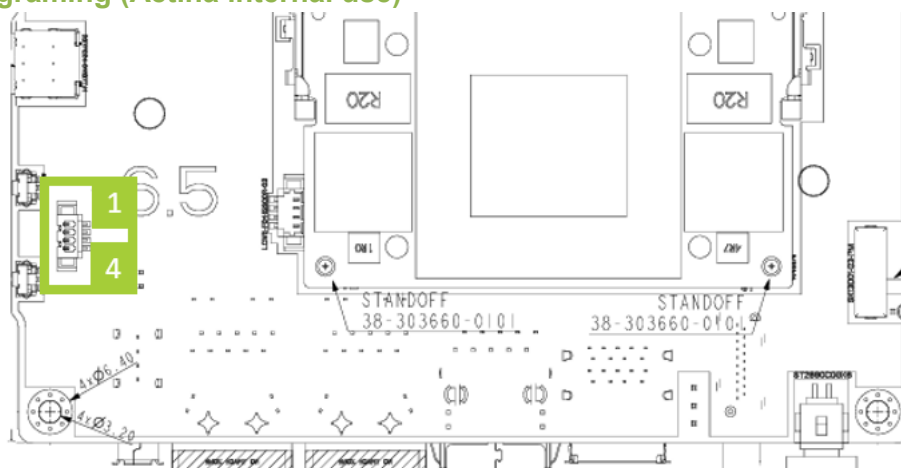
■ 12V System Fan Connector



Item	Description
Location	CN24
Type	1*4P 1.25mm Wafer connector

Pin #	Definition	Pin #	Definition
1	GND	2	VDD_12V
3	SENSE	4	PWM

■ MCU Programming (Aetina internal use)

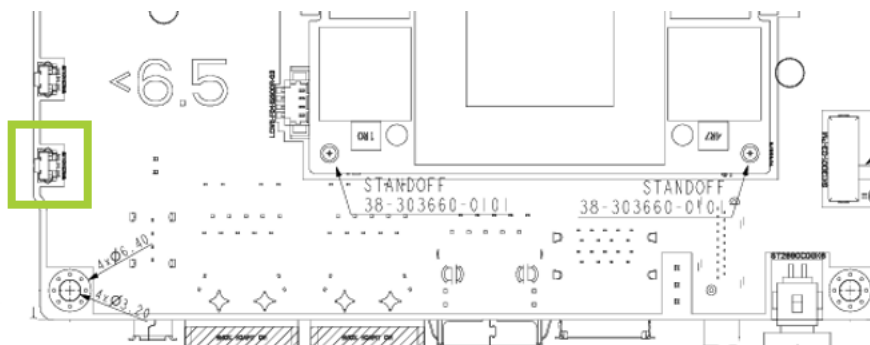


Item	Description
Location	CN26

Type	1*4P 1.25mm Wafer connector
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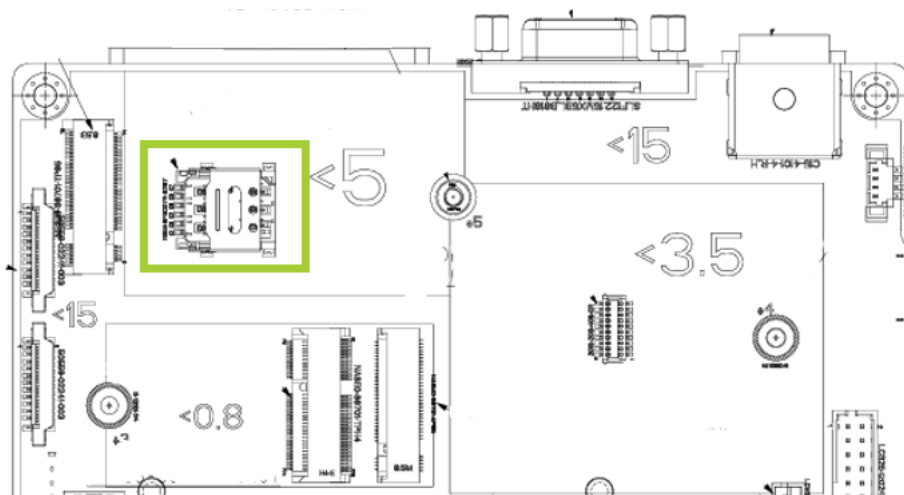
Pin #	Definition	Pin #	Definition
1	nDTA	2	nCLK
3	nRST	4	GND

■ Recovery Button



Item	Description
Location	SW3
Type	Tact switch
Notes	To trigger system recovery action

■ Nano SIM Card Socket



Item	Description
Location	CN29
Type	Nano SIM card

2.5 Power Consumption

The power consumption shown as below is the theoretical value with Orin Nano module installed on AIB-MO23/AIB-MO33.

Type	Theoretical Maximum System power
Idle	15 W (Connect with Keyboard, Mouse and HDMI Display)
Full Loading	77 W (Connect with Keyboard, Mouse, HDMI Display and LAN with CPU And GPU 100% Loading)

The power consumption shown as below is the theoretical value with Orin NX module installed on AIB-MN33/AIB-MN43.

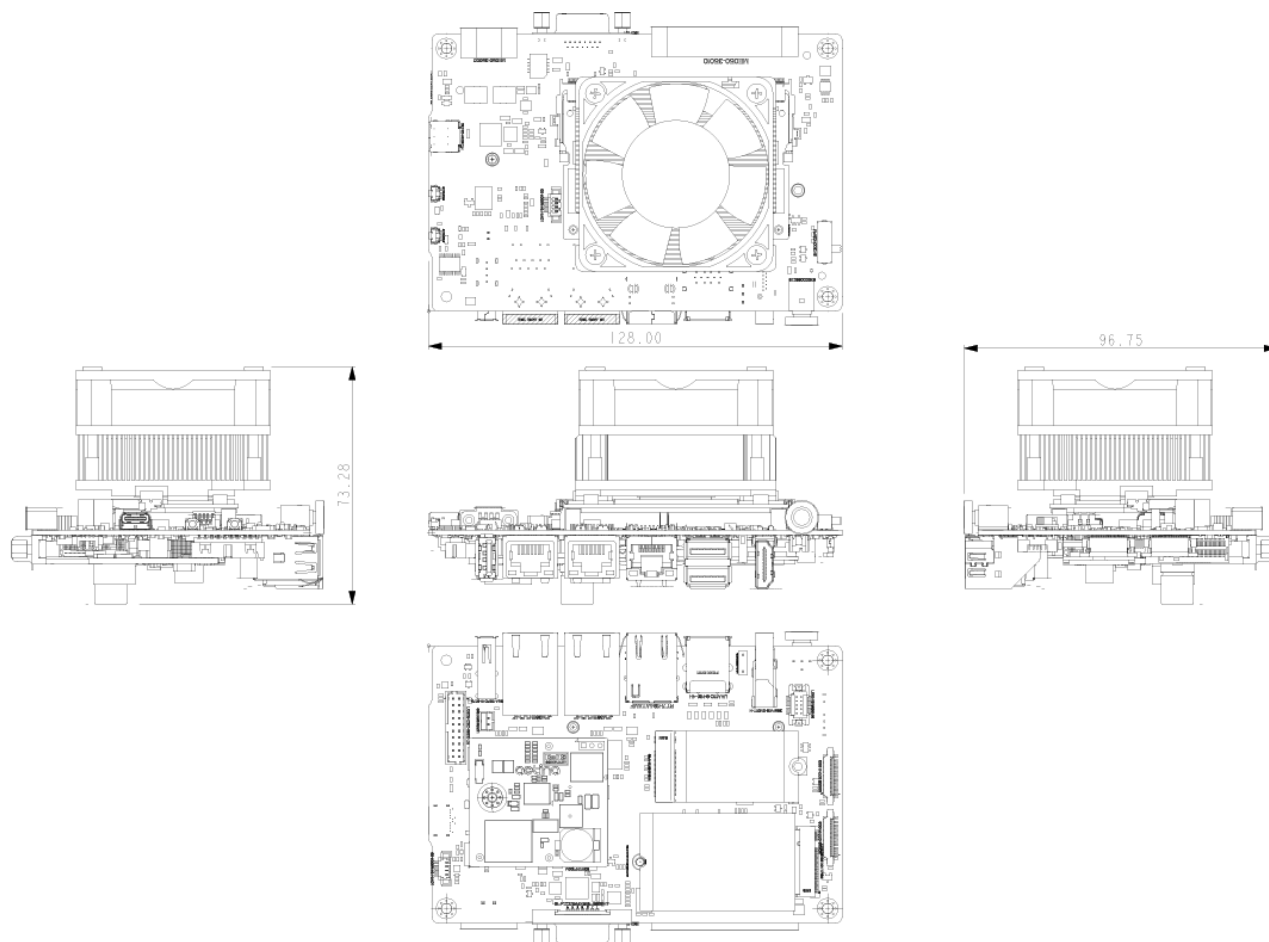
Type	Theoretical Maximum System power
Idle	16 W (Connect with Keyboard, Mouse and HDMI Display)
Full Loading	78 W (Connect with Keyboard, Mouse, HDMI Display and LAN with CPU And GPU 100% Loading)

Please refer to the following power consumption of individual I/O interface according to your use case.

Type	Theoretical Maximum System power
HDMI	0.25 W
M.2 M key	7 W
M.2 E key	2 W
M.2 B key	3 W
USB 3.2 Gen2 (1 port)	4.5 W
USB 3.0 Gen2 (1 port)	4.5 W
Camera MIPI CSI-2	8.4 W
GbE LAN port	0.83 W
GbE LAN SPE port (1 port)	15W
Fan connector	2 W

2.6 Mechanical Dimensions

Integration assembly drawing for AIB-MO23/AIB-MO33-1-S1 & AIB-MN33/AIB-MN43-1-S1 carrier board, Orin Nano/NX module and Fansink



3. Software/BSP Installation

Aetina NVIDIA Jetson products have built-in BSP so the users don't have to install it after getting the products. Since we develop our own BSP, the users may need to follow the BSP installation SOP to re-install/upgrade/downgrade the BSP. Please visit the Aetina website or contact with Aetina FAE at Tech_support@aetina.com for installation guides, BSPs and technical tips.

4. Recovery Mode

The OTG Type-C port of AIB-MO23/AIB-MO33 or AIB-MN33/AIB-MN43 can be connected to another host device (Linux PC running NVIDIA Jetpack™) to run recovery process for re-flashing BSP.

Note: Please backup user personal files before flashing process

Step 1: Connect the OTG Type-C port to another host device which supplying updated BSP file.

Step 2: Press and hold the Reset button, then press and hold the Recovery button continually.

Step 3: After one second (1 sec.) release the Reset button first, then release the Recovery button.

Step 4: The Orin Nano or NX will show up as a new NVIDIA device on USB list (Terminal console) at the host device.

Step 5: Running re-flashing BSP process can be executed by the host device now.

5. Initial Setup

Before using AIB-MO23/AIB-MO33 & AIB-MN33/AIB-MN43 series, please follow the steps below to have initial setup.

5.1 Prepare the materials

Please prepare the materials list below.

- A monitor with HDMI and respective cables
- USB keyboard and mouse
- Ethernet cable

5.2 Hardware connection

ATTENTION: Jetson Orin module is not hot-pluggable. Before installing or removing the module, the main power supply (to Power connector, CN8) must be disconnected and adequate time allowed for the various power rails to fully discharge.

For the initial setup, users will need to connect LAN port, keyboard and mouse via USB interface, HDMI interface, and power connector.

5.3 Setup details

Step 1: Connect to the monitor while powering off

Step 2: Power on and automatically enter the OS

Step 3: Log in to the Ubuntu OS via credentials below

- Username: nvidia
- Password: nvidia

For more information on how to use Ubuntu and NVIDIA Jetson modules, please visit Ubuntu and NVIDIA website.

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