MVP-3100 Series
MVP-3100/MVP-3120
User's Manual

Fanless Embedded System with
14th/13th/12th Generation Intel® Core™ Processor and H610E Chipset



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Leading EDGE COMPUTING

Revision History

Revision	Release Date	Description of Change(s)
1.0	2025-06-30	Initial release

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Preface

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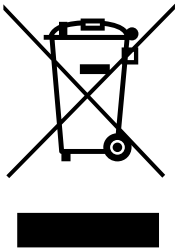
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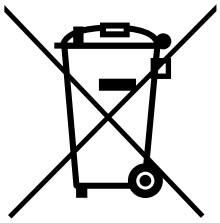
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Battery Labels (for products with battery)









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WARNING: This product can expose you to chemicals including acrylamide, arsenic, benzene, cadmium, Tris(1,3-dichloro-2-propyl)phosphate (TDCPP), 1,4-Dioxane, formaldehyde, lead, DEHP, styrene, DINP, BBP, PVC, and vinyl materials, which are known to the State of California to cause cancer, and acrylamide, benzene, cadmium, lead, mercury, phthalates, toluene, DEHP, DIDP, DnHP, DBP, BBP, PVC, and vinyl materials, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Conventions

Take note of the following conventions used throughout this manual to make sure that users perform certain tasks and instructions properly.



NOTE:

Additional information, aids, and tips that help users perform tasks.



CAUTION:

Information to prevent ***minor*** physical injury, component damage, data loss, and/or program corruption when trying to complete a task.

ATTENTION: Informations destinées à prévenir les blessures corporelles mineures, les dommages aux composants, la perte de données et/ou la corruption de programme lors de l'exécu- tion d'une tâche.



WARNING:

Information to prevent ***serious*** physical injury, component damage, data loss, and/or program corruption when trying to complete a specific task.

AVERTISSEMENT: Informations destinées à prévenir les bles- sures corporelles graves, les dommages aux composants, la perte de données et/ou la corruption de programme lors de l'exécution d'une tâche spécifique.

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1 Introduction

ADLINK's MVP-3100 series is a value-line, fanless embedded computing platform that supports Intel® Core™ processors. It offers two form factor options: a non-slot version and a 2-slot version, both designed for easy maintenance in industrial automation environments.

This series retains the robust design of ADLINK's Matrix product line while introducing a cost-effective price point. The MVP-3100 series supports DDR5 memory for enhanced computing performance, and Intel® UHD Graphics 770 boosts graphics capabilities. With a versatile I/O array and flexible expansion options, the MVP-3100 series meets the rigorous demands of industrial automation (IA), including vision inspection, motion control, and surveillance applications.

Its fanless construction not only addresses noise and contamination challenges in harsh IA environments but also eliminates structural elements that reduce MTBF, significantly extending the platform's lifecycle.

1.1 Features

- 14th/13th/12th Generation Intel® Core™ processor and H610E chipset
- 2x DDR5 SODIMM socket, supporting up to 64GB DDR5 4800 SODIMM module
- 4x Ethernet ports (1x 2.5GbE and 3x 1.0GbE)
- 8x USB ports (4x USB 3.1 and 4x USB 2.0)
- Supporting a PCIex16 slot and a PCI slot for the MVP-3120

1.2 Packing List

Before unpacking, check the shipping carton for any damage. If the shipping carton and/or contents are damaged, inform your dealer immediately. Retain the shipping carton and packing materials for inspection. Obtain authorization from your dealer before returning any product to ADLINK. Ensure that the following items are included in the package.

- MVP-3100 Series Embedded Computer
- Accessory Box
  - DC power jack
  - Wall-mount brackets
  - Screw pack

1.3 Optional Accessories

- 230W AC/DC adapter (P/N: 31-621A0-0010-A0)
- Optional fan kit (P/N: TBD)
- Remote power switch cable (P/N: TBD)

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2 Specifications

2.1 Product Specifications

System	MVP-3100	MVP-3120
Processor	12th-14th Gen. Intel® Core™ i3/ i5/ i7/ i9, up to 65W	
PCH	H610E	
Memory	DDR5 4800MHz up to 64GB, 2x SO-DIMM	
Storage	2x SATA	4x SATA
OS	Windows 10 IoT, Windows 11 IoT, Ubuntu 22.04	
TPM	TPM 2.0	
I/O Interface		
Control button	1x Power button	
	1x Reset button	
Video output	1x HDMI 1.4b	
	1x DisplayPort 1.4	
USB	4x USB 3.2 Gen1 Type A	
	4x USB 2.0 Type A	
Ethernet	1x 2.5GbE (i226)	
	2x 1.0GbE (i210)	
	1x 1.0GbE (i219)	
COM	COM 1/2: RS-232/422/485	
	COM 3: RS-232	
Digital	8DI + 8DO	
Audio	Line-out, Mic-in	
SMA Antenna	2 for Wi-Fi	
Inner I/O Interface		
M.2	1x A+E Key 2230 (PCIe Gen3x1)	
	1x M Key 2280 (PCIe Gen3x2)	
USB	1x USB 2.0 dongle	
Other		
LED Indicator	1x Storage	
	1x WDT	
	1x Diagnostic	
	3x User-defined	
Backplane		
2 Slot	None	1x PCIe Gen4x16
		1x PCI
Power Supply		
DC Input	12-24Vdc, 19.2A-9.6A	
	24Vdc, 9.6A (optional power adapter input)	
Mechanical		
Dimensions	192mm x 240mm x 77.2mm	192mm x 240mm x 156.2mm
Weight	3.68KG	4.52KG
Mounting	Wall mount	Wall mount

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Environmental	
Operating Temperature	-20°C to 60°C (35W CPU)
	-20°C to 50°C (65W CPU)
Operating Humidity	~95% @ 40°C (non-condensing)
Storage Temperature	-40°C to 85°C
Operating Vibration	Operating: 3Grms, random, 5-500Hz, 3 axes (w/SSD)
Operating Shock	Operating: 50G, half sine 11ms duration (w/SSD)
ESD	Contact +/-4KV, Air +/-8KV



WARNING:

This device complies with part 15 of the 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.

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3 Functional Block Diagram

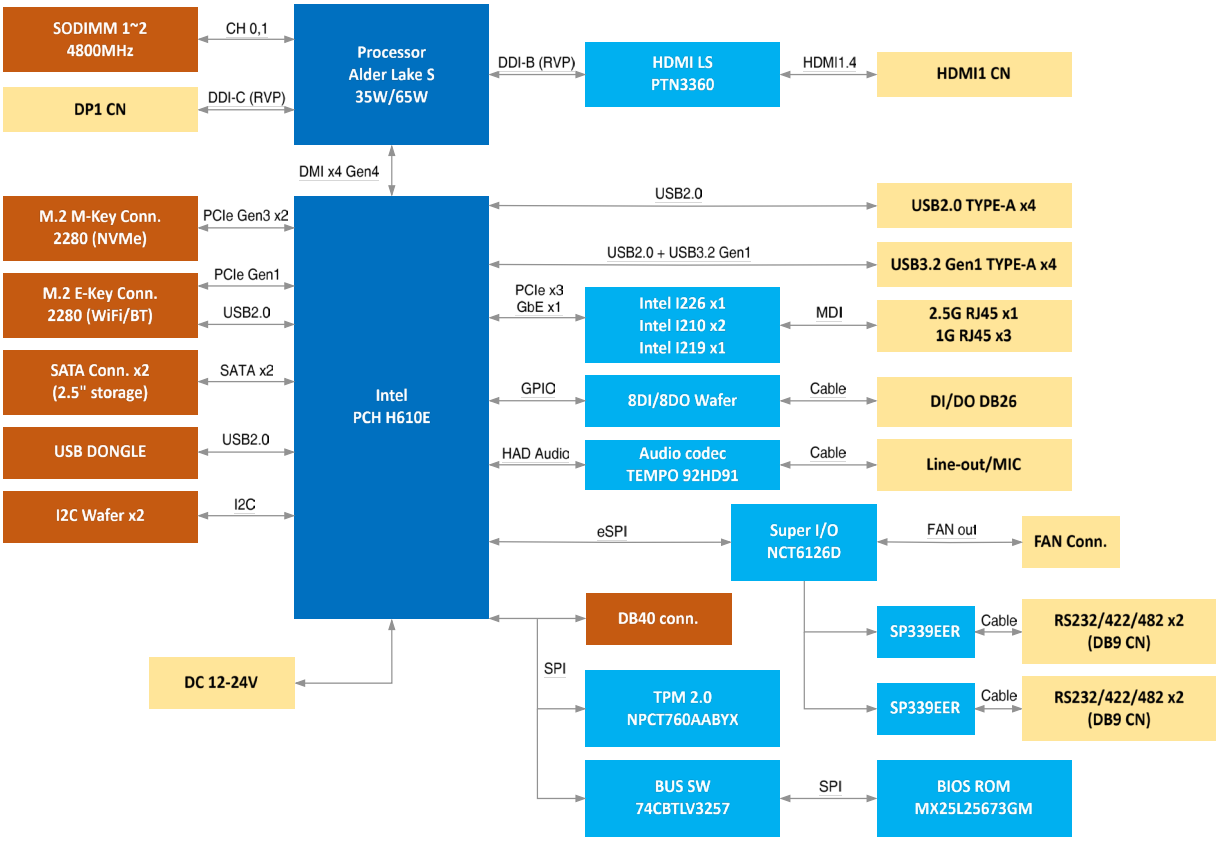


Figure 1: Block diagram

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4 Mechanical Dimensions

4.1 MVP-3100 Mechanical Dimensions

NOTE:

All dimensions are in millimeters, unless noted.

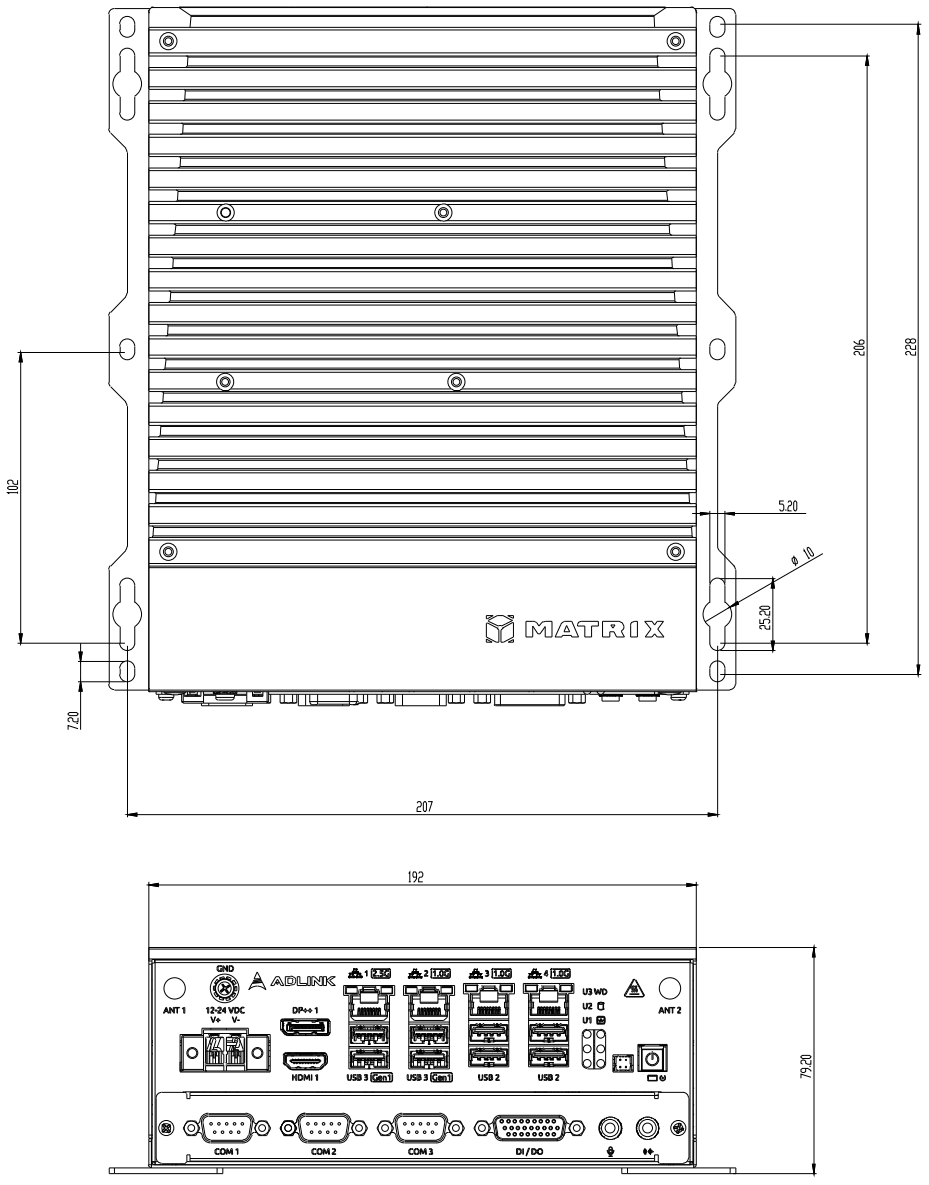


Figure 2: MVP-3100 mechanical dimensions

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4.2 MVP-3120 Mechanical Dimensions

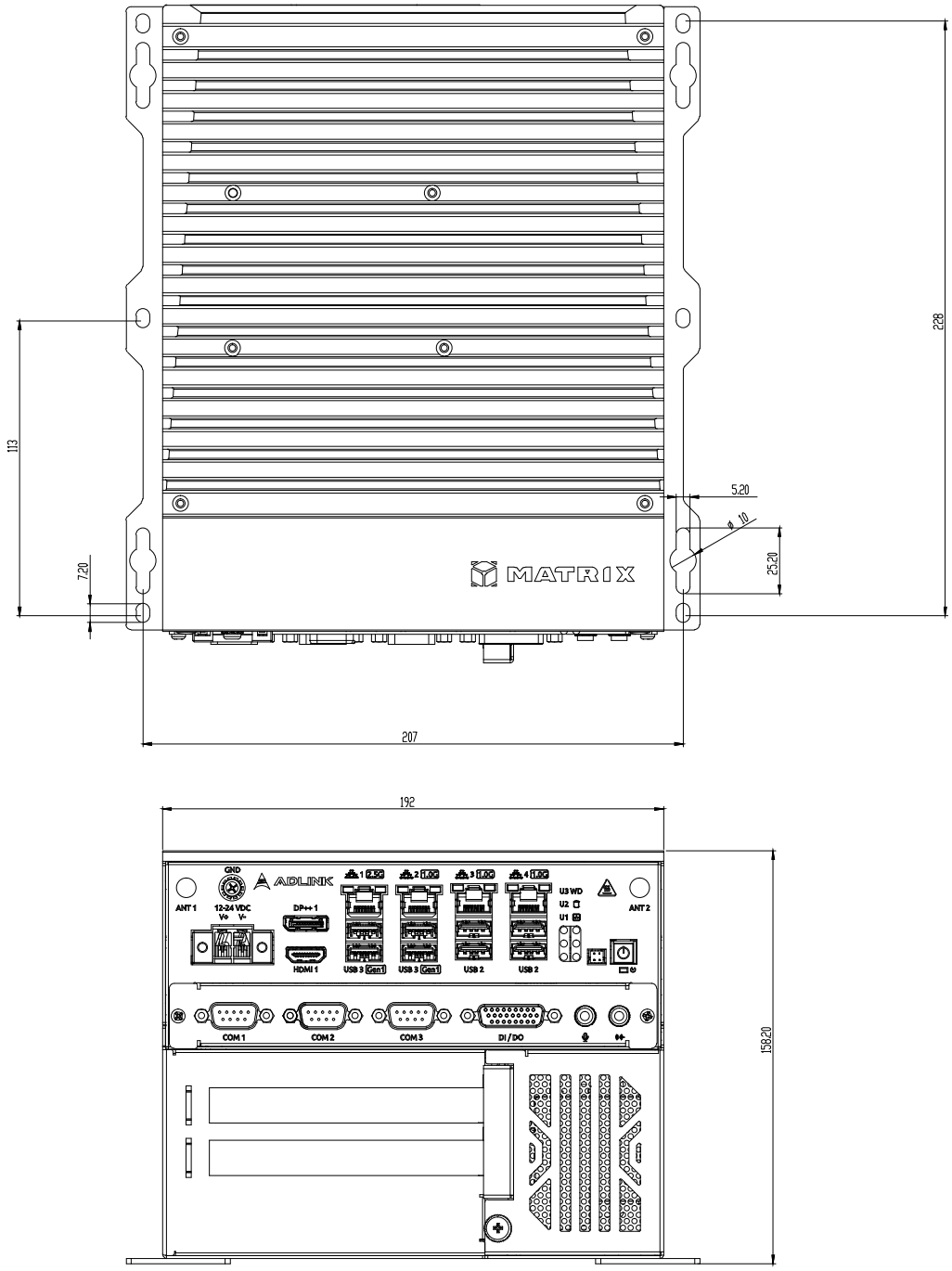


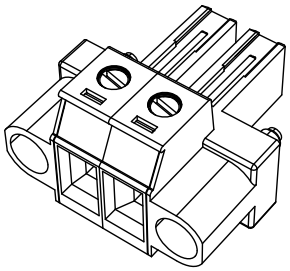
Figure 3: MVP-3120 mechanical dimensions

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5 Getting Started

5.1 Attach the DC Power Connector

Locate the DC power connector shown below, which is included in the accessory box. Insert it into the DC power input and secure it to the chassis using the captive screws.



Connect a DC power source as described in **Section 5.1.14: DC Power Input** to the inputs of the DC power connector, making sure to use the correct input voltage and polarity.

WARNING:
Avertissement:

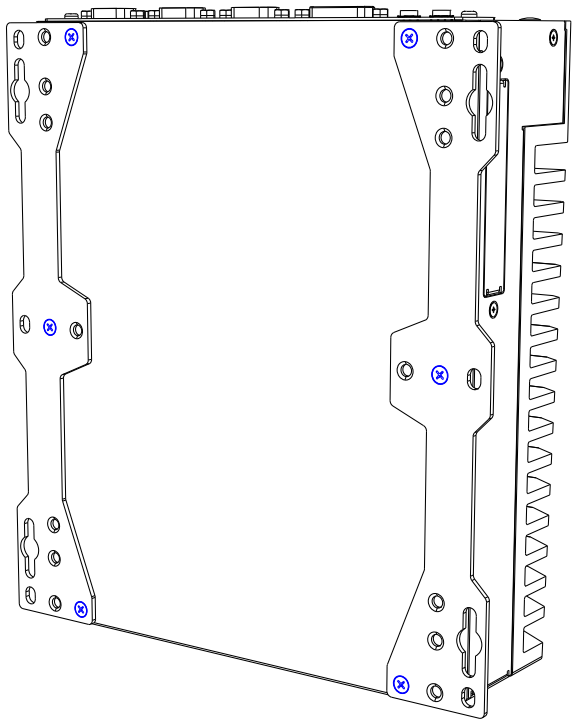
Before providing DC power, ensure the voltage and polarity provided are compatible with the DC input. Improper input voltage and/or polarity can cause system damage.

Avant de fournir l'alimentation en courant continu (DC), assurez-vous que la tension et la polarité fournies sont compatibles avec l'entrée DC. Une tension et/ou une polarité incorrecte peuvent endommager le système.

5.2 Mounting

Use **SIX** M4 screws (6mm) to attach the 2 included wall-mount brackets to the chassis, as shown.

Utilisez SIX vis M4 (6 mm) pour fixer les deux supports muraux inclus au châssis, comme illustré.



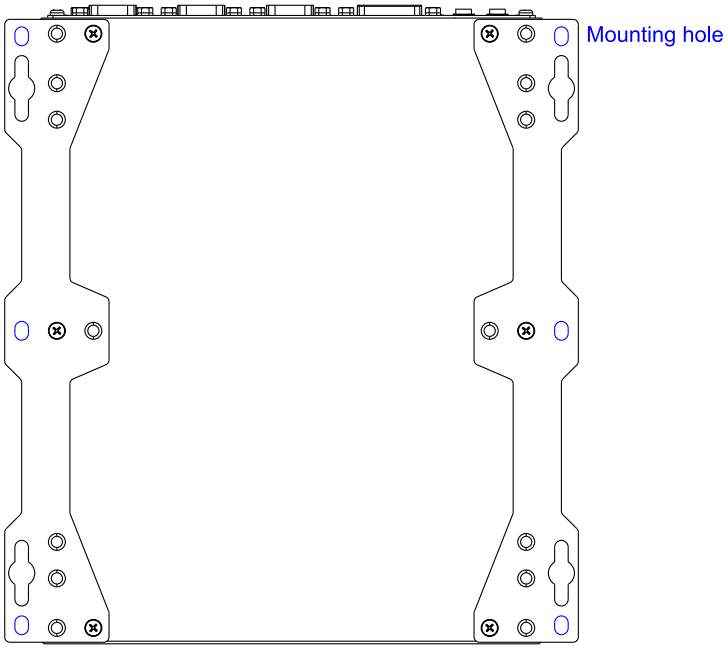
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For the specifications of the screws used to mount the product to the wall, refer to the following recommendations:

Mount the device using six M4 screws (8 mm length) through the six mounting holes indicated below, following the spacing dimensions of the bracket holes. (Recommended torque: 6 kgf·cm).

Pour les spécifications des vis utilisées pour fixer le produit au mur, vous pouvez vous référer aux recommandations/suggestions suivantes.

Fixez l'appareil au mur à l'aide de 6 vis M4 de 8 mm de longueur, en utilisant les 6 trous de fixation indiqués ci-dessous, selon les dimensions d'espacement des trous dans le support. (Le couple est de 6 kgf/cm.)



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Avertissement:

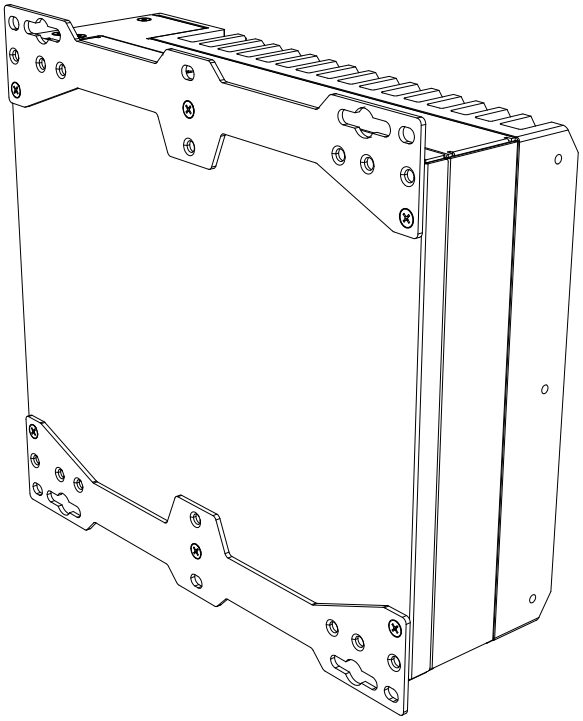
While the configuration shown may suggest otherwise due to the presence of antenna ports, for safety, the device should ONLY be wall-mounted with the front and rear panels on the sides — NEVER on the top or underside.

Même si la configuration peut indiquer le contraire en raison de la présence de ports d'antenne, pour des raisons de sécurité, l'appareil doit être fixé au mur uniquement avec les panneaux avant et arrière sur les côtés, et jamais sur le dessus ou le dessous.

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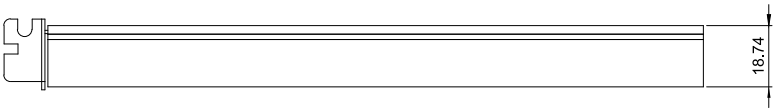
Once final assembly is completed, mount the MVP-3100 on the wall via screw holes. The I/O connectors must not face downward. We recommend mounting the MVP-3100, as shown.

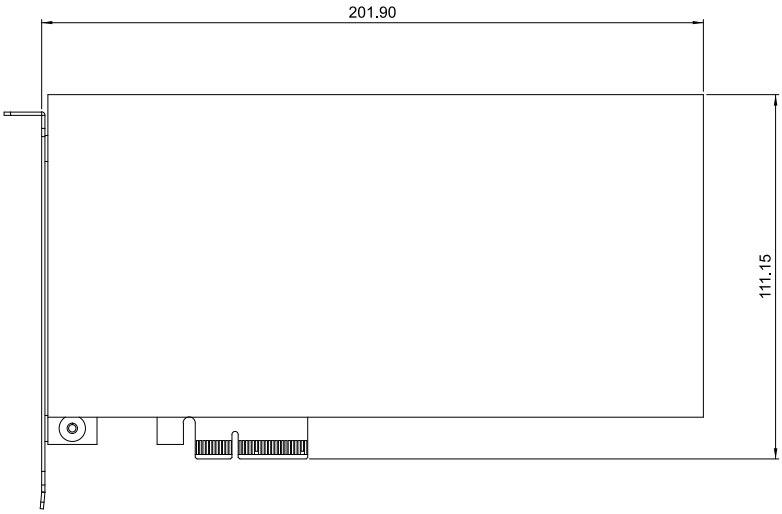
Une fois l'assemblage final terminé, fixez le MVP-3100 au mur à l'aide des trous de vis. Les connecteurs d'E/S ne doivent pas être orientés vers le bas. Il est recommandé de monter le MVP-3100 tel qu'illustré.



5.3 Dimension Limitations for the Expansion Card

The following diagram shows the PCIe/PCI expansion card dimension limitations.





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6 System Layout

6.1 External I/O Connector Locations

The MVP-3100 Series provides the following front and side panel access features.

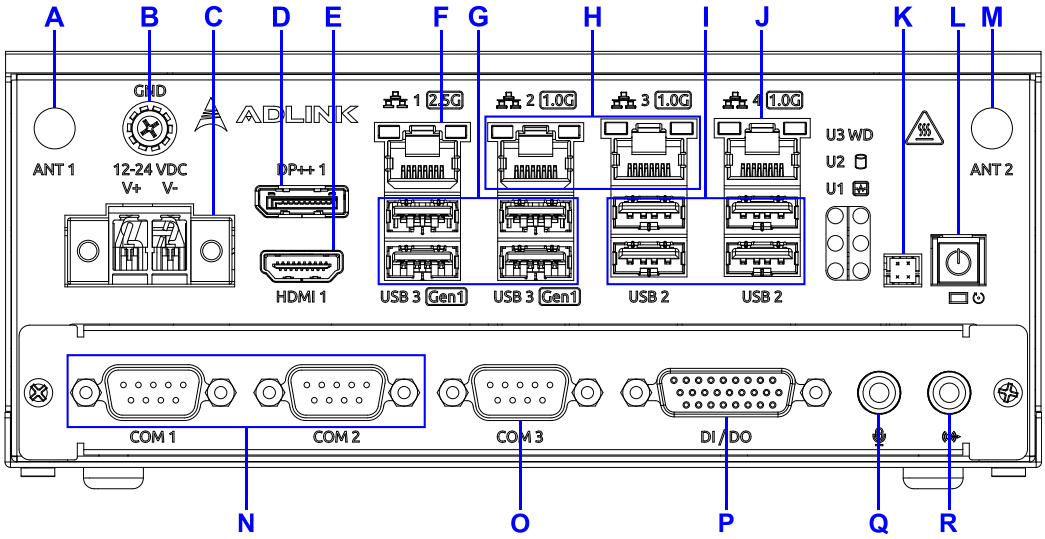


Figure 4: External I/O connector locations

Table 1: External I/O connector descriptions

Item	Description
A	Antenna 1
B	Ground
C	DC Power Input
D	DisplayPort
E	HDMI
F	2.5G Ethernet (Intel I226-V)
G	USB 3.2 Gen1
H	1.0G Ethernet (Intel I210-IT)
I	USB 2.0
J	1.0G Ethernet (Intel I219-V)
K	External Power Button
L	Power Button
M	Antenna 2
N	COM Port (RS-232/422/485)
O	COM Port (RS-232)
P	Digital Input/Output
Q	Audio MIC-in
R	Audio Line-out

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6.2 Mainboard Top/Bottom Connector Locations

Top side

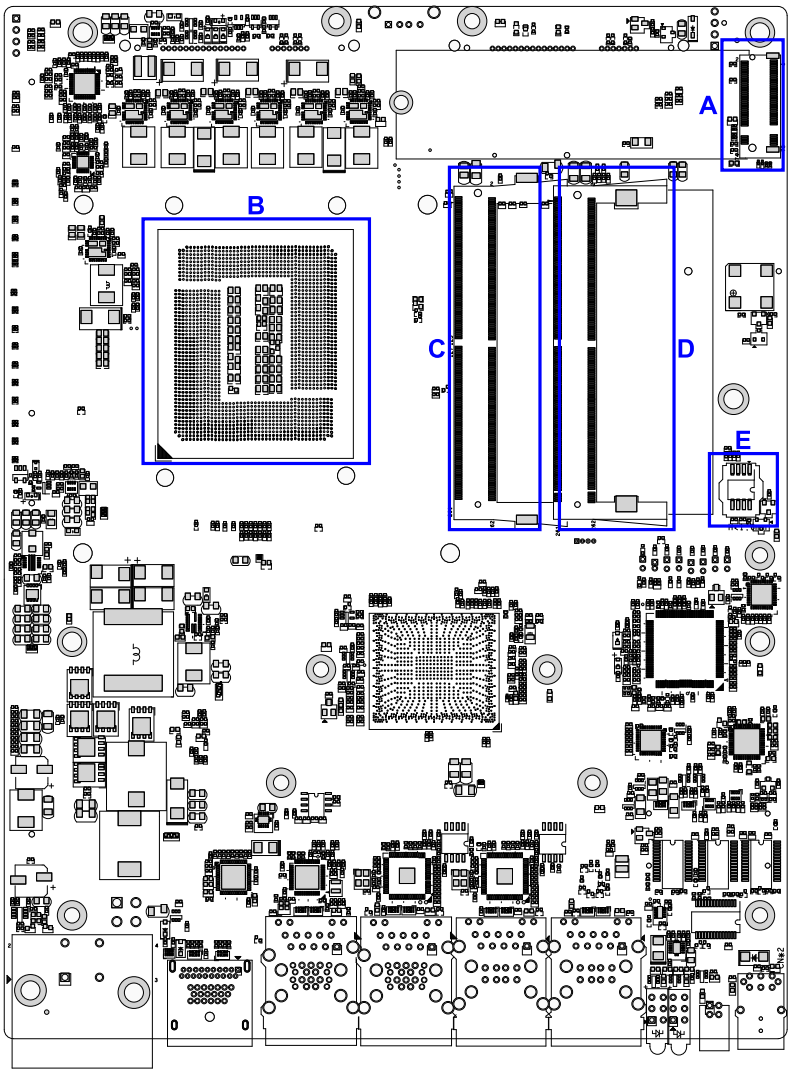


Figure 5: Mainboard connector locations (Top)

Table 2: Mainboard connector descriptions (Top)

Item	Description
A	M.2 M Key
B	CPU Socket
C	DDR5 SO-DIMM1
D	DDR5 SO-DIMM2
E	Flash ROM Socket (Debug)

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Bottom side

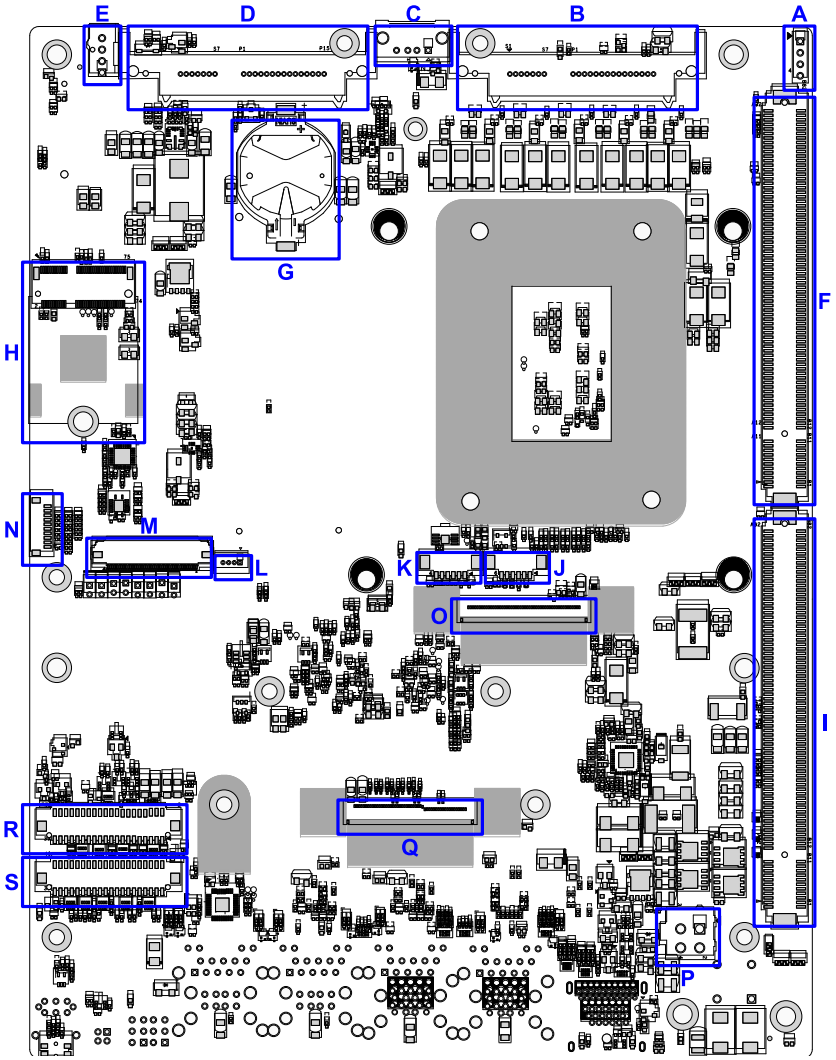


Figure 6: Mainboard connector locations (Bottom)

Table 3: Mainboard connector descriptions (Bottom)

Item	Description
A	Power FW Update Connector (Debug)
B	SATA connector for 2.5” SSD
C	USB 2.0 dongle
D	SATA connector for 2.5” SSD
E	System Fan Connector (12V)
F	PCIE GEN4 slot for BP Board
G	RTC Battery Connector
H	M.2 E Key
I	PCIE GEN4 + Power slot for BP Board
J	I2C Wafer 2 (I2C1)
K	I2C Wafer 1 (I2C0)
L	External Power/Reset BTN
M	DB40 Connector (Debug)

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N	ESPI Connector (Debug)
O	FPC Connector for AFM Board_AFM1
P	External Power Connector for BP or AFM board
Q	FPC Connector for AFM Board_AFM2
R	Wafer for COM5 – 6 + DIDO + MIC + HP
S	Wafer for COM1 – 4

6.2.1 2-Solt Backplane Card

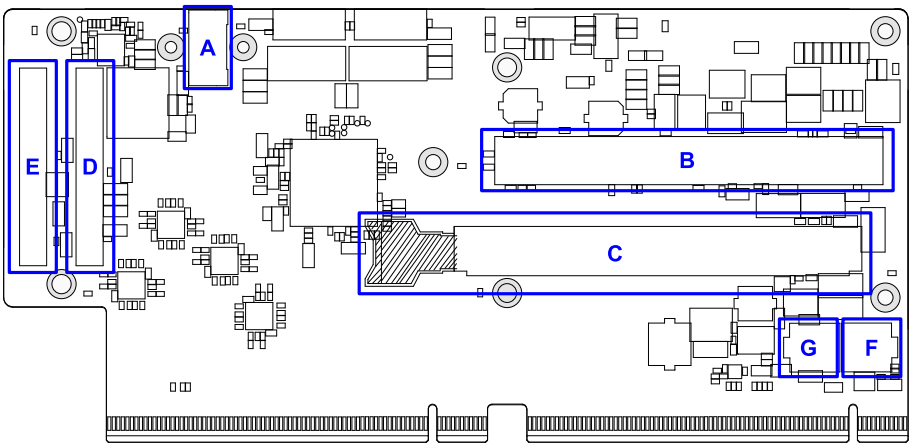


Figure 7: 2-Solt backplane card locations

Table 4: 2-Solt backplane card descriptions

Item	Description
A	USB 2.0 dongle connector
B	PCI slot
C	PCI Express x16 slot
D	Direct SATA connector
E	Direct SATA connector
F	Exrtra Power for PCIe x 16 slot (12V)
G	Power from mother board (12V)

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7 Connectors and Jumpers

7.1 External I/O Connectors

7.1.1 Antenna Port

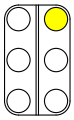
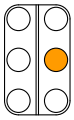
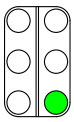
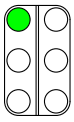
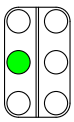
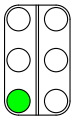
Antenna ports ANT1-2 support 2.4GHz/5GHz Wi-Fi (PN: 30-60125-1000-B0).

7.1.2 Power Button

The power button is a non-latching push button with a blue LED indicator:

System Status	Power LED
Power on	Light on
Suspend (S3)	Blinking
Hibernation (S4)	Blinking
Power off (S5)	Light off

7.1.3 LED Indicators

LED Indicator	Location	Color	Description
Watchdog (WD)		Yellow	When the watchdog timer starts, the LED remains on until the system successfully boots up.
Hard disk drive (HD)		Orange	When blinking, it indicates the SATA HDD is active.
Diagnostic (DG)		Green	If lit continuously, it indicates no physical storage is connected. If blinking, it indicates no memory is installed in either SO-DIMM socket.
User define (U1)		Green	User-defined LED.
User define (U2)		Green	User-defined LED.
User define (U3)		Green	User-defined LED.

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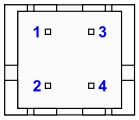
7.1.4 PCI Express x16 Slot

One PCI Express x16 slot supports expansion with standard PCIe Gen4 cards and full PCI express x16 signals.

7.1.5 PCI Slot

The MVP-3120 provides one PCI slot for expansion on the backplane board. Based on the ITE IT8892E PCIe to PCI bridge, the connection to the host system is achieved through a PCIe x1 Gen3 interface, supporting universal or 5V PCI 32-bit cards operating at 33MHz.

7.1.6 External Power Button Connector



The MVP-3100 series provides an external power button connector to remotely power on/off the platform.

Pin #	Description
1	PWR_BTN-L
2	P_+5V0_A (LED PWR)
3	GND
4	PWR_LED (LED Control)

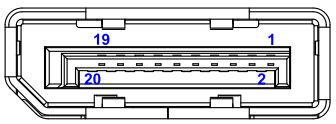
7.1.7 Audio Jack

The MVP-3100 series provides two stereo audio ports (Mic-in, Line-out). Audio is controlled by the TEMPO 92HD91 chip.

7.1.8 DisplayPort Connector

The DisplayPort connector on the front panel can connect to VGA, DVI, and DisplayPort monitors via DisplayPort-to-VGA, DisplayPor-to-DVI, or DisplayPort-to-HDMI adapter cables, as well as DisplayPort cable.

Pin #	Description	Pin #	Description
1	CN_DDPx0+	11	GND
2	GND	12	CN_DDPx3-
3	CN_DDPx0-	13	CN_DDPx_AUX_SEL
4	CN_DDPx1+	14	CN_DDPx_CONFIG2
5	GND	15	CN_DDPx_AUX+
6	CN_DDPx1-	16	GND
7	CN_DDPx2+	17	CN_DDPxAUX-
8	GND	18	CN_DDPx_HPD
9	CN_DDPx2-	19	GND
10	CN_DDPx3+	20	CN_DDPx_PWR_CN

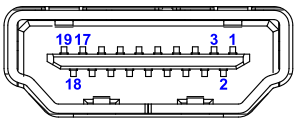


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7.1.9 HDMI Connector

The MVP-3100 series provides one HDMI connector for connecting to an external monitor.

Pin #	Description	Pin #	Description
1	CON_HDMI_TX2_P	11	GND
2	GND	12	CON_HDMI_CLK_N
3	CON_HDMI_TX2_N	13	N/C
4	CON_HDMI_TX1_P	14	N/C
5	GND	15	HDMII_SCL_SINK
6	CON_HDMI_TX1_N	16	HDMI_SDA_SINK
7	CON_HDMI_TX0_P	17	GND
8	GND	18	P_+5V0 _HDMI_CN
9	CON_HDMI_TX0_N	19	CON_HDMI_HPD_5V0
10	CON_HDMI_CLK_P		



7.1.10 Digital I/O Connector

The MVP-3100 Series provides 8 channels of non-isolation digital input and 8 channels of non-isolation digital output circuits, with specifications details as follows.

8-channel Digital Input:

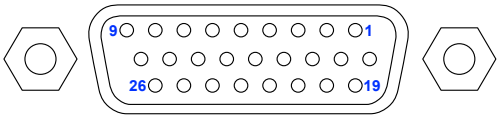
- VIH: 2 to 5.25V
- VIL: 0 to 0.8V

8-channel Digital Output:

- Output type: Open drain N-channel
- MOSFET driver with internal pull high of 200Ω resistance.
- Source/Sink current for all channels: 24mA
- VOH: 2.4 to 5V
- VOL: 0 to 0.5V

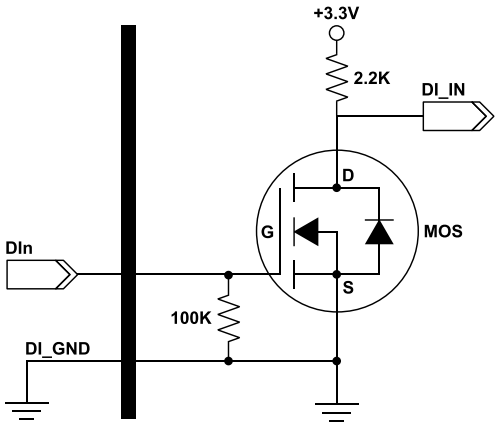
Pin definition:

Pin #	Signal	Pin #	Signal	Pin #	Signal	Pin #	Signal
1	DI0	8	DI7	15	N/C	22	DO3
2	DI1	9	GND	16	N/C	23	DO4
3	DI2	10	N/C	17	N/C	24	DO5
4	DI3	11	N/C	18	GND	25	DO6
5	DI4	12	N/C	19	DO0	26	DO7
6	DI5	13	N/C	20	DO1		
7	DI6	14	N/C	21	DO2		

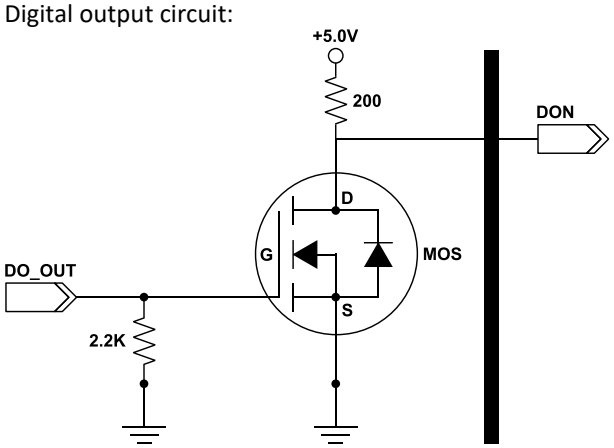


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Digital input circuit:



Digital output circuit:



7.1.11 USB 2.0 Ports

All USB 2.0 ports support data transfer speeds up to 480 Mbps.

7.1.12 USB 3.2 Gen1 Ports

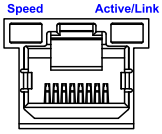
All USB 3.2 Gen1 ports support data transfer speeds of up to 5 Gbps.

7.1.13 Ethernet Ports

Only Ethernet port 1 on the front panel supports up to 2.5 Gbps with Intel I226-V. The other ports support up to 1.0 Gbps with the Intel I210-IT and Intel I219-V.

Active/Link LED Indicators:

LED color	Status	Description
Yellow	Off	Ethernet port is disconnected.
	On	Ethernet port is connected but inactive.
	Flashing	Ethernet port is connected and active.



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Speed LED Indicators:

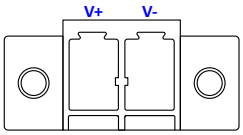
LED color	Status	Description
Green/Orange	Off	10/100 Mbps
	Green	1000 Mbps
	Orange	2500 Mbps

7.1.14 DC Power Input

Use an approved power source certified by IEC or UL. The maximum operational altitude is 2000 m with an output that meets LPS and SELV (ES1) circuit requirements.

Power Source Rating:

Source	Voltage	Current
DC power source	12 to 24V DC	19.2A to 9.6A min.
AC to DC adapter	24V DC	9.6A min.





WARNING:
Avertissement:

Before providing DC power, ensure the voltage and polarity pro- vided are compatible with the DC input. Improper input voltage and/or polarity can cause system damage.

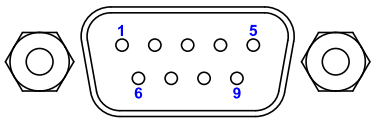
Avant de fournir l'alimentation en courant continu (DC), assurez-vous que la tension et la polarité fournies sont compatibles avec l'entrée DC. Une tension et/ou une polarité incorrecte peut endommager le système.

7.1.15 COM Port Connector

The MVP-3100 series provides COM ports through DB9 connectors. COM 1 & COM2 ports support RS-232/422/485 modes by BIOS setting, the COM 3 supports RS-232 mode.

COM Port Pin Definition:

Pin	RS-232	RS-422	RS-485
1	DCD#	TXD422-	485DATA-
2	RXD	TXD422+	485DATA+
3	TXD	RXD422+	N/S
4	DTR#	RXD422-	N/S
5	GND	GND	GND
6	DSR#	N/S	N/S
7	RTS#	N/S	N/S
8	CTS#	N/S	N/S
9	RI#	N/S	N/S



7.2 Internal I/O Connectors

7.2.1 SATA Connector

The SATA connector supports transfer up to 6.0Gb/s (600MB/s).

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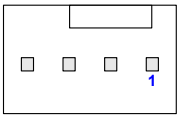
7.2.2 USB 2.0 Connector

For the MVP-3100, a USB 2.0 Type-A connector is provided on the mainboard for an internal USB dongle. For the MVP-3120, the connector is located on the backplane.

7.2.3 System Fan Connector

The system fan connector provides C 12V DC power for the optional fan module.

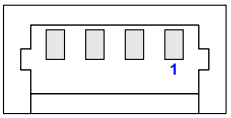
Pin #	Description
1	FAN_GND
2	12V IN PWR
3	FAN TACH
4	FAN PWM



7.2.4 External Power/Reset Header

An internal header is provided for the Power and Reset buttons.

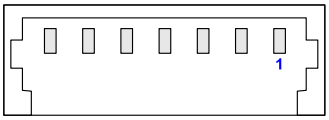
Pin #	Description
1	PWR_BTN-L
2	GND
3	GND
4	RESET_BTN-L



7.2.5 I2C Wafer

There are two I2C connectors supporting 3.3v or 5v.

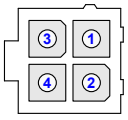
Pin #	Signal (I2C0)	Signal (I2C1)
1	P_+5V0_S	P_+5V0_S
2	P_+3V3_S	P_+3V3_S
3	PCH_I2C0_SDA_S	PCH_I2C1_SDA_S
4	PCH_I2C0_SCL_S	PCH_I2C1_SCL_S
5	I2C0_GPIO	I2C1_GPIO
6	GND	GND



7.2.6 External Power Connector for BP or AFM Board

The external power connector provides 12V DC power for a backplane or an AFM board.

Pin #	Description
1	GND
2	GND
3	VDC_CN
4	VDC_CN



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8 Driver Installation

Download the drivers for MVP-3100/MVP-3120 from the official product page below:

https://www.adlinktech.com/products/industrial_pcs_fanless_embedded_pcs/expandablefanlessembeddedcomputers/mvp-3100

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Safety Instructions

For user safety, please read and follow all instructions, Warnings, Cautions, and Notes marked in this manual and on the associated device before handling/operating the device, to avoid injury or damage.

- Read these safety instructions carefully.
- Keep the User's Manual for future reference.
- Read the Specifications section of this manual for detailed information on the recommended operating environment.
- The operating temperature of the product can be 40 degrees (powered by adapter) or 50 degrees (powered by DC source).
- It is recommended that the device be installed in Information Technology Rooms that are in accordance with Article 645 of the National Electrical Code and NFPA 75.
- When installing/mounting or uninstalling/removing device is required:
  [> Turn off power and unplug any power cords/cables.
  [> Reinstall all chassis covers before restoring power.
- To avoid electrical shock and/or damage to device:
  [> Keep device away from water or liquid sources.
  [> Keep device away from high heat or humidity.
  [> Keep device properly ventilated (do not block or cover ventilation openings).
  [> Always use recommended voltage and power source settings.
  [> Always install and operate device near an easily accessible electrical outlet.
  [> Secure the power cord (do not place any object on/over the power cord) and connect it to a socket-outlet with earthing connection.
  [> Only install/attach and operate device on stable surfaces and/or recommended mountings.
  [> If this apparatus is powered by adapter or DC source. Please ensure adapter or DC source should be keep earth connection if it has protective earthing.
- If the device will not be used for long periods of time, turn off and unplug from its power source.
- Never attempt to repair the device, which should only be serviced by qualified technical personnel using suitable tools.
- A Lithium-type battery may be provided for uninterrupted backup or emergency power.



Risk of explosion if battery is replaced with one of an incorrect type; please dispose of used batteries appropriately.

- The device must be serviced by authorized technicians when:
  [> The power cord or plug is damaged.
  [> Liquid has entered the device interior.
  [> The device has been exposed to high humidity and/or moisture.
  [> The device is not functioning or does not function according to the User's Manual.
  [> The device has been dropped and/or damaged and/or shows obvious signs of breakage.
- Disconnect the power supply cord before loosening the thumbscrews and always fasten the thumbscrews with a screwdriver before starting the system up.
- It is recommended that the device be installed only in a server room or computer room where access is:
  [> Restricted to qualified service personnel or users familiar with restrictions applied to the location, reasons therefore, and any precautions required.
- Only afforded by the use of a tool or lock and key, or other means of security, and controlled by the authority responsible for the location.
- Pay attention to the symbol below. Touching this surface may cause bodily injury. To reduce the risk, allow the surface to cool before touching.

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	**BURN HAZARD** Touching this surface could result in bodily injury. To reduce risk, allow the surface to cool before touching.

- The equipment is not intended to be installed and used in a home, school or public area accessible to the general population. (If the thumb screw is used.)
- The knurled thumb screws (If the thumb screw is used.) with slotted heads for each Node module should be tighten the screws with a tool after both initial installation and subsequent using.
- The wire of terminal block should be fixed by authorized technician and recommendation for wire range: 30-10 sol/str, wire type: Cu, torque (Lb IN.): 5.3

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Consignes de sécurité

Pour la sécurité de l'utilisateur, veuillez lire et suivre toutes les instructions, avertissements, mises en garde et remarques figurant dans ce manuel et sur l'appareil associé avant de manipuler/utiliser ce dernier, afin d'éviter toute blessure ou tout dommage.

- Lisez attentivement ces consignes de sécurité.
- Conservez le manuel d'utilisation pour référence ultérieure.
- Consultez la section « Spécifications » de ce manuel pour obtenir des informations détaillées sur l'environnement d'utilisation recommandé.
- La température de fonctionnement du produit peut être de 40 degrés (alimenté par un adaptateur) ou de 50 degrés (alimenté par une source CC).
- Il est recommandé d'installer l'appareil dans des salles informatiques conformes à l'article 645 du Code national de l'électricité et à la norme NFPA 75.
- Lors de l'installation, du montage ou de la désinstallation/du retrait de l'appareil :
  - [> Coupez l'alimentation et débranchez tous les cordons/câbles d'alimentation.
  - [> Remettez tous les capots du châssis en place avant de rétablir l'alimentation.
- Pour éviter tout choc électrique et/ou tout dommage à l'appareil :
  - [> Tenir l'appareil à l'écart de l'eau ou de toute source de liquide.
  - [> Tenir l'appareil à l'écart des sources de chaleur et d'humidité élevées.
  - [> Veiller à une ventilation adéquate de l'appareil (ne pas obstruer ni couvrir les ouvertures de ventilation).
  - [> Toujours utiliser la tension et la source d'alimentation recommandées.
  - [> Toujours installer et utiliser l'appareil à proximité d'une prise électrique facilement accessible.
  - [> Fixer le cordon d'alimentation. (Ne pas placer d'objet sur/au-dessus du cordon d'alimentation.)
  - [> Installer, fixer et utiliser l'appareil uniquement sur des surfaces stables et/ou avec les supports recommandés.
  - [> Si cet appareil est alimenté par un adaptateur ou une source CC, veuillez vous assurer que l'adaptateur ou la source CC est bien relié à la terre s'il est équipé d'une mise à la terre de protection.
- Si l'appareil n'est pas utilisé pendant une période prolongée, éteindre et débrancher l'appareil.
- Ne jamais tenter de réparer l'appareil ; son entretien doit être confié à un technicien qualifié utilisant les outils appropriés.
- Une batterie au lithium peut être fournie pour une alimentation de secours ou d'urgence ininterrompue.
- Risque d'incendie ou d'explosion en cas de remplacement de la batterie par un type incorrect. Jetez les batteries usagées avec précaution.
- L'appareil doit être réparé par des techniciens agréés lorsque :
  - [> Le cordon d'alimentation ou la prise sont endommagés.
  - [> Du liquide a pénétré à l'intérieur de l'appareil.
  - [> L'appareil a été exposé à une forte humidité.
  - [> L'appareil ne fonctionne pas ou ne fonctionne pas conformément au manuel d'utilisation.
  - [> L'appareil est tombé et/ou est endommagé et/ou présente des signes évidents de casse.
- Débranchez le cordon d'alimentation avant de desserrer les vis à oreilles et serrez-les toujours avec un tournevis avant de démarrer le système.
- Il est recommandé d'installer l'appareil uniquement dans une salle de serveurs ou une salle informatique dont l'accès est :
  - [> Réservé au personnel de maintenance qualifié ou aux utilisateurs connaissant les restrictions applicables au lieu, leurs raisons et les précautions requises.

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- Uniquement autorisé par l'utilisation d'un outil, d'un cadenas et d'une clé, ou de tout autre moyen de sécurité, et contrôlé par l'autorité responsable du lieu.
- Tenez compte du symbole ci-dessous. Tout contact avec cette surface peut entraîner des blessures corporelles. Pour réduire le risque, laissez la surface refroidir avant de la toucher.

	**RISQUE DE BRÛLURES** Ne touchez pas cette surface, cela pourrait entraîner des blessures. Pour éviter tout danger, laissez la surface refroidir avant de la toucher.

- Cet équipement n'est pas destiné à être installé et utilisé dans une maison, une école ou un lieu public accessible au grand public (si la vis moletée est utilisée).
- Les vis moletées (si la vis moletée est utilisée) à tête fendue de chaque module Node doivent être serrées à l'aide d'un outil après l'installation initiale et les utilisations ultérieures.
- Le fil du bornier doit être fixé par un technicien agréé et la recommandation pour la gamme de fils : 30-10 sol/str, type de fil : Cu, couple (Lb IN.) : 5,3

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