



Embedded Computing Platform

Hardware Platforms for Intelligent Edge Computing

EAI-I134 User Manual

Version: 1.1

Date of Release: 2026-05-21

About this Document

This manual describes the overview of the various functionalities of this product, and the information you need to get it ready for operation. It is intended for those who are:

- responsible for installing, administering and troubleshooting this system or Information Technology professionals.
- assumed to be qualified in the servicing of computer equipment, such as professional system integrators, or service personnel and technicians.

The latest version of this document can be found on Lanner's official website, available either through the product page or through the [Lanner Download Center](#) page with a login account and password.

Conventions & Icons

The icons are used in the manual to serve as an indication of interest topics or important messages.

Icon	Usage
 Note or Information	This mark indicates that there is something you should pay special attention to while using the product.
 Warning or Important	This mark indicates that there is a caution or warning and it is something that could damage your property or product.

Online Resources

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In addition to contacting your distributor or sales representative, you could submit a request at our [Lanner Technical Support](#) and fill in a support ticket to our technical support department.

Documentation Feedback

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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ▶ Reorient or relocate the receiving antenna.
- ▶ Increase the separation between the equipment and receiver.
- ▶ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ▶ Consult the dealer or an experienced radio/TV technician for help.

FCC Caution

- ▶ Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- ▶ This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



Note

1. An unshielded-type power cord is required to meet FCC emission limits and to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used.
2. Use only shielded cables to connect I/O devices to this equipment.
3. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



Important

1. Operations in the 5.15-5.25GHz band are restricted to indoor usage only.
2. This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

Safety Guidelines

Follow these guidelines to ensure general safety:

- ▶ Keep the chassis area clear and dust-free during and after installation.
- ▶ Do not wear loose clothing or jewelry that could get caught in the chassis. Fasten your tie or scarf and roll up your sleeves.
- ▶ Wear safety glasses if you are working under any conditions that might be hazardous to your eyes.
- ▶ Do not perform any action that creates a potential hazard to people or makes the equipment unsafe.
- ▶ Disconnect all power by turning off the power and unplugging the power cord before installing or removing a chassis or working near power supplies
- ▶ Do not work alone if potentially hazardous conditions exist.
- ▶ Never assume that power is disconnected from a circuit; always check the circuit.

Consignes de sécurité

Suivez ces consignes pour assurer la sécurité générale :

- ▶ Laissez la zone du châssis propre et sans poussière pendant et après l'installation.
- ▶ Ne portez pas de vêtements amples ou de bijoux qui pourraient être pris dans le châssis. Attachez votre cravate ou écharpe et remontez vos manches.
- ▶ Portez des lunettes de sécurité pour protéger vos yeux.
- ▶ N'effectuez aucune action qui pourrait créer un danger pour d'autres ou rendre l'équipement dangereux.
- ▶ Coupez complètement l'alimentation en éteignant l'alimentation et en débranchant le cordon d'alimentation avant d'installer ou de retirer un châssis ou de travailler à proximité de sources d'alimentation.
- ▶ Ne travaillez pas seul si des conditions dangereuses sont présentes.
- ▶ Ne considérez jamais que l'alimentation est coupée d'un circuit, vérifiez toujours le circuit. Cet appareil génère, utilise et émet une énergie radiofréquence et, s'il n'est pas installé et utilisé conformément aux instructions des fournisseurs de composants sans fil, il risque de provoquer des interférences dans les communications radio.

Lithium Battery Caution

- ▶ There is risk of Explosion if Battery is replaced by an incorrect type.
- ▶ Dispose of used batteries according to the instructions.
- ▶ Installation only by a skilled person who knows all Installation and Device Specifications which are to be applied.
- ▶ Do not carry the handle of power supplies when moving to another place.
- ▶ Please conform to your local laws and regulations regarding safe disposal of lithium BATTERY.
- ▶ Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery can result in an explosion.
- ▶ Leaving a battery in an extremely high temperature surrounding environment can result in an explosion or the leakage of flammable liquid or gas.
- ▶ A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

Avertissement concernant la pile au lithium

- ▶ Risque d'explosion si la pile est remplacée par une autre d'un mauvais type.
- ▶ Jetez les piles usagées conformément aux instructions.
- ▶ L'installation doit être effectuée par un électricien formé ou une personne formée à l'électricité connaissant toutes les spécifications d'installation et d'appareil du produit.
- ▶ Ne transportez pas l'unité en la tenant par le câble d'alimentation lorsque vous déplacez l'appareil.

Operating Safety

- ▶ Electrical equipment generates heat. Ambient air temperature may not be adequate to cool equipment to acceptable operating temperatures without adequate circulation. Be sure that the room in which you choose to operate your system has adequate air circulation.
- ▶ Ensure that the chassis cover is secure. 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.
- ▶ Electrostatic discharge (ESD) can damage equipment and impair electrical circuitry. ESD damage occurs when electronic components are improperly handled and can result in complete or intermittent failures. Be sure to follow ESD-prevention procedures when removing and replacing components to avoid these problems.

- ▶ Wear an ESD-preventive wrist strap, ensuring that it makes good skin contact. If no wrist strap is available, ground yourself by touching the metal part of the chassis.
- ▶ Periodically check the resistance value of the antistatic strap, which should be between 1 and 10 megohms (Mohms).

Sécurité de fonctionnement

- ▶ L'équipement électrique génère de la chaleur. La température ambiante peut ne pas être adéquate pour refroidir l'équipement à une température de fonctionnement acceptable sans circulation adaptée. Vérifiez que votre site propose une circulation d'air adéquate.
- ▶ Vérifiez que le couvercle du châssis est bien fixé. La conception du châssis permet à l'air de refroidissement de bien circuler. Un châssis ouvert laisse l'air s'échapper, ce qui peut interrompre et rediriger le flux d'air frais destiné aux composants internes.
- ▶ Les décharges électrostatiques (ESD) peuvent endommager l'équipement et gêner les circuits électriques. Des dégâts d'ESD surviennent lorsque des composants électroniques sont mal manipulés et peuvent causer des pannes totales ou intermittentes. Suivez les procédures de prévention d'ESD lors du retrait et du remplacement de composants.
- ▶ Portez un bracelet anti-ESD et veillez à ce qu'il soit bien au contact de la peau. Si aucun bracelet n'est disponible, reliez votre corps à la terre en touchant la partie métallique du châssis.
- ▶ Vérifiez régulièrement la valeur de résistance du bracelet antistatique, qui doit être comprise entre 1 et 10 mégohms (Mohms).

Mounting Installation Precaution

- ▶ Do not install and/or operate this unit in any place that flammable objects are stored or used in.
- ▶ If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.
- ▶ Installation of the equipment (especially in a rack) should consider the ventilation of the system's intake (for taking chilled air) and exhaust (for emitting hot air) openings so that the amount of airflow required for safe operation of the equipment is not compromised.
- ▶ To avoid a hazardous load condition, be sure the mechanical loading is even when mounting.
- ▶ Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on over-current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- ▶ Reliable earthing should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g., use of power strips).

Installation & Operation:

- ▶ This equipment must be grounded. The power cord for product should be connected to a socket-outlet with earthing connection.
Cet équipement doit être mis à la terre. La fiche d'alimentation doit être connectée à une prise de terre correctement câblée
- ▶ Suitable for installation in Information Technology Rooms in accordance with Article 645 of the National Electrical Code and NFPA 75.
Peut être installé dans des salles de matériel de traitement de l'information conformément à l'article 645 du National Electrical Code et à la NFPA 75.
- ▶ The machine can only be used in a restricted access location and must be installed by a skilled person.
Les matériels sont destinés à être installés dans des EMPLACEMENTS À ACCÈS RESTREINT.

Warning

- ▶ Class I Equipment. This equipment must be earthed. The power plug must be connected to a properly wired earth ground socket outlet. An improperly wired socket outlet could place hazardous voltages on accessible metal parts.
- ▶ Product shall be used with Class 1 laser device modules.

Avertissement

- ▶ Équipement de classe I. Ce matériel doit être relié à la terre. La fiche d'alimentation doit être raccordée à une prise de terre correctement câblée. Une prise de courant mal câblée pourrait induire des tensions dangereuses sur des parties métalliques accessibles.
- ▶ Le produit doit être utilisé avec des modules de dispositifs laser de classe 1.

Electrical Safety Instructions

Before turning on the device, ground the grounding cable of the equipment. Proper grounding (grounding) is very important to protect the equipment against the harmful effects of external noise and to reduce the risk of electrocution in the event of a lightning strike. To uninstall the equipment, disconnect the ground wire after turning off the power. A ground wire is required and the part connecting the conductor must be greater than 4 mm² or 10 AWG.

Consignes de sécurité électrique

- ▶ Avant d'allumer l'appareil, reliez le câble de mise à la terre de l'équipement à la terre.
- ▶ Une bonne mise à la terre (connexion à la terre) est très importante pour protéger l'équipement contre les effets néfastes du bruit externe et réduire les risques d'électrocution en cas de foudre.
- ▶ Pour désinstaller l'équipement, débranchez le câble de mise à la terre après avoir éteint l'appareil.
- ▶ Un câble de mise à la terre est requis et la zone reliant les sections du conducteur doit faire plus de 4 mm² ou 10 AWG.



Important

1. This product is intended to be supplied by an UL Listed DC power source, rated 12/24Vdc, 18.3/9.16A minimum, Tma=70 degree C, and the altitude of operation=5000m.

Ce produit doit être alimenté par un adaptateur secteur homologué ou une source d'alimentation CC, avec une tension nominale de 12/24 Vcc, un courant minimal de 18.3/9.16A, une température ambiante maximale (Tma) de 70 °C, et une altitude de fonctionnement pouvant aller jusqu'à 5000 mètres.

2. The unit is to be connected only to PoE networks without routing to the outside plant.

L'unité doit être connectée uniquement aux réseaux PoE sans routage vers l'installation extérieure.

3. For DC power supply, TQ LB In= 7, Wiring range=12-24AWG, Wire type=Cu

Pour l'alimentation CC, Couple (TQ) = 7 lb-po, Plage de câblage = 12-24 AWG, Type de fil = Cu

4. Instruction for the installation of the conductor to building earth by a skilled person.

Instructions pour le raccordement du conducteur à la terre du bâtiment par une personne qualifiée.

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CHAPTER 1: PRODUCT OVERVIEW

The EAI-I134, a high-performance, rugged edge AI computer powered by the NVIDIA® Jetson Orin™ NX, the EAI-I134 delivers up to 100 TOPS of AI performance—ideal for demanding AI-powered video analytics and real-time inferencing in critical infrastructure environments. It supports for Super Mode, available through NVIDIA JetPack SDK 6.2, which unlocks up to 2x higher generative AI model performance compared to previous configurations. Moreover, the EAI-I134 features dual PoE ports, as well as USB, COM, and DIO interfaces. The onboard M.2 expansion slots provide flexible options for Wi-Fi and 5G connectivity. It also supports a wide power input range from 12V/24V, and operates flawlessly in temperatures from -40°C to 70°C.

Package Content

Your package contains the following items:

- ▶ 1x EAI-I134 Edge AI Gateway
- ▶ 1x set Terminal Block (DIO/PWR)

Ordering Information

SKU	CPU	Memory	I/O	Expansion	Power
EAI-I134A	Jetson Orin NX, up to 157 TOPS w/ SuperMode	16GB LPDDR5	1x RJ45 GbE; 2x RJ45 GbE w/ PoE+; 1x HDMI 2.0;	1x M.2 2230 E-Key for Wi-Fi;	DC 12V/24V
EAI-I134B	Jetson Orin NX, up to 117 TOPS w/ SuperMode	8GB LPDDR5	2x USB 3.0; 2x COM; 4x DI, 2x DO	1x M.2 3042/3052 B-Key for 5G Sub6/LTE w/ SIM	

NOTE: In the event of software issues or concern, contact your Sales Representative or Dealer immediately for technical assistance.

System Specifications

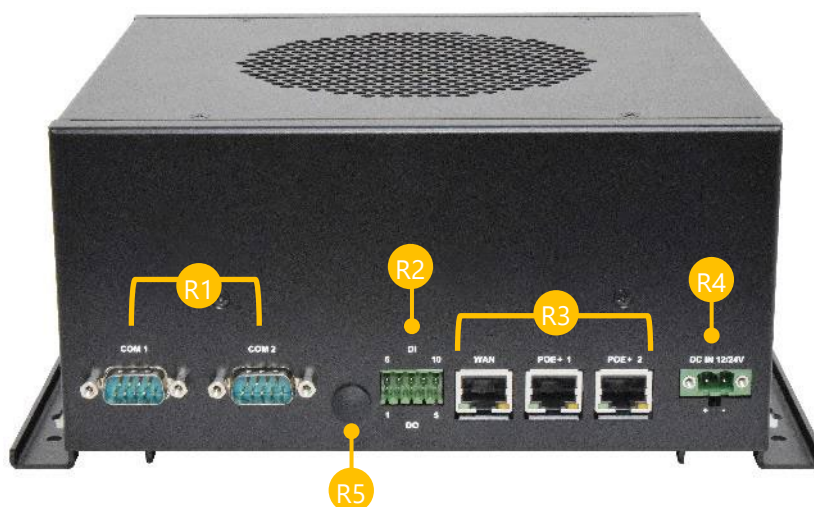
Processor System	CPU	SKU A: 8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit; SKU B: 6-core NVIDIA Arm® Cortex A78AE v8.2 64-bit
	SOM	Jetson Orin NX
	SOM TDP	Max. 40W
	GPU	SKU A: Ampere, 1024 CUDA Cores, 32 Tensor Cores, 918 MHz SKU B: Ampere, 1024 CUDA Cores, 32 Tensor Cores, 765 MHz
System Memory	Technology/Capacity	SKU A: 16GB LPDDR5 SKU B: 8GB LPDDR5
Ethernet	Interface	1x RJ45 GbE; 2x RJ45 GbE w/ PoE+ (Max. 50W); Single Port Supports 30W
	Speed	10/100/1000 Mbps
I/O	Power/Reset Buttons	1x Reset Button; 1x Power Button
	Serial Port	2x COM for RS-232/422/485 (DB9) with Optional 1x CAN (COM2)
	Digital I/O	4x DI; 2x DO
	Display Port	1x HDMI Port
	USB Port	2x USB 3.0 Type A Ports
	Audio Jack	1x Line-In; 1x Line-Out
	Antenna	4x Antenna Hole for 5G/LTE; 2x Antenna Hole for Wi-Fi; 1x Antenna Hole for GPS
Storage	Onboard Slots	1x M.2 2280/2242 M-Key for NVMe (Default 128GB)
Expansion Interface	M.2	1x M.2 2230 E-Key for Wi-Fi; 1x M.2 3042/3052 B-Key for 5G Sub6/LTE
	SIM Card Slot	2x Nano-SIM (For LTE/5G Module)
Miscellaneous	Watchdog	Yes
	Internal RTC w/ Li Battery	Yes
	TPM	Onboard TPM 2.0
Cooling	Processor	Passive CPU Heatsink
	System	1x 12V Smart Fan
Environmental Parameters	Temperature	-40°C ~ 70°C Operating; -40°C ~ 85°C Storage
	Relative Humidity	5~90% Operating; 5~95% Non-Operating
System Dimensions	Size (WxDxH)	201 x 196 x 95 mm
	Weight	TBD
	Mounting	Wall mount
Power	Type/Watts	DC 12V/24V
	Input	1x 1x2 Terminal Block
Driver Support	OS	Linux Ubuntu 22.04 LTS; NVIDIA Jetpack 6.2.1 SuperMode
Certification	EMC	CE/FCC Class A, UL_CB

Front Panel



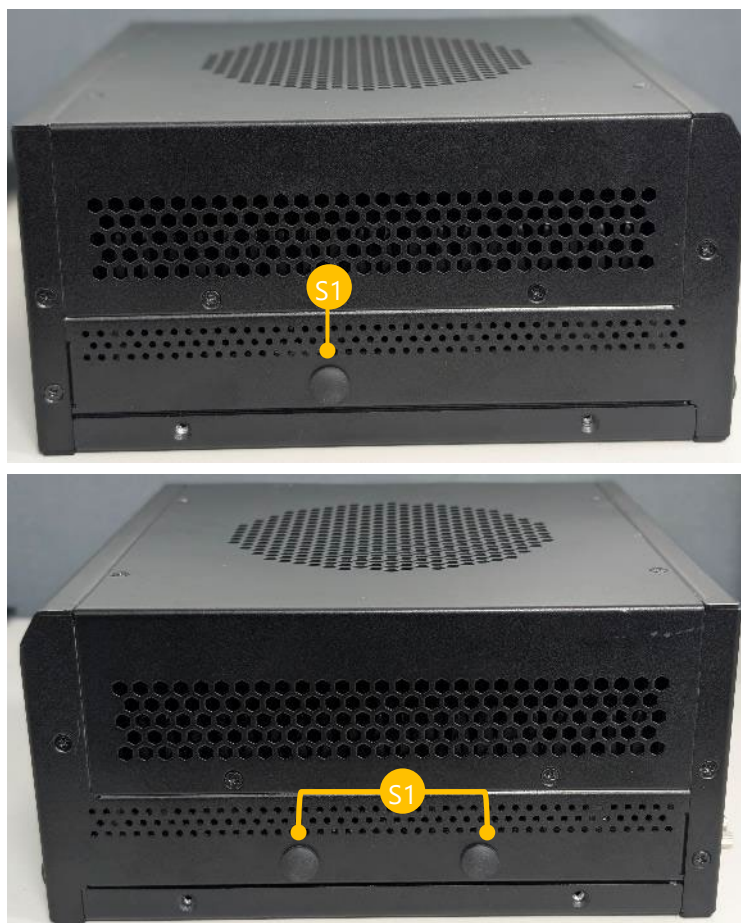
No.	Description	
F1	SIM Cover	SIM Cover w/ Intrusion Design for 2x Nano SIM; 1x Slide Switch for Recovery
F2	USB Port	2x USB 3.0 Type A Ports
F3	Display Port	1x HDMI Port
F4	Audio Jack	1x Line-In, 1x Line-Out
F5	LED Indicator	HDD Status/System Power LED Indicator
F6	Reset Button	1x Reset Button
F7	Power Button	1x Power On/Off Button
F8	Antenna	2x Antenna Holes for LTE/5G/Wi-Fi;

Rear Panel



No.	Description	
R1	COM Port	2x RS232/422/485 (DB9) COM Port; With Optional 1x CAN (COM2)
R2	DIO	4x DI, 2x DO
R3	LAN/PoE	1x RJ45 GbE LAN Port; 2x RJ45 GbE w/ PoE+ [Max 60W; Single Port support 30W] Ports
R4	Power Input	1x 2-Pin Terminal Block
R5	Antenna Holes	1x Antenna Holes for LTE/5G/Wi-Fi

Side Panel

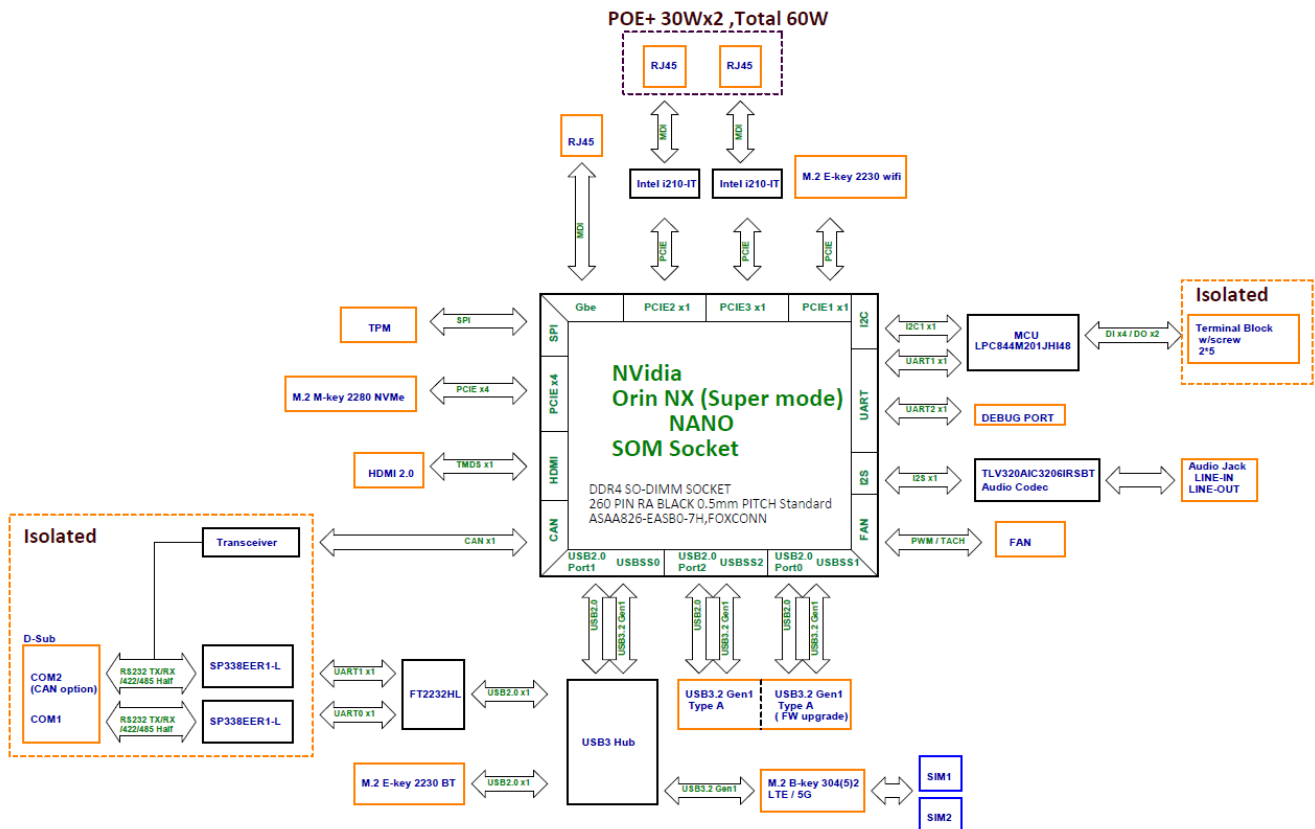


No.	Description	
S1	Antenna Holes	3x Antenna Holes for LTE/5G/Wi-Fi

CHAPTER 2: MOTHERBOARD INFORMATION

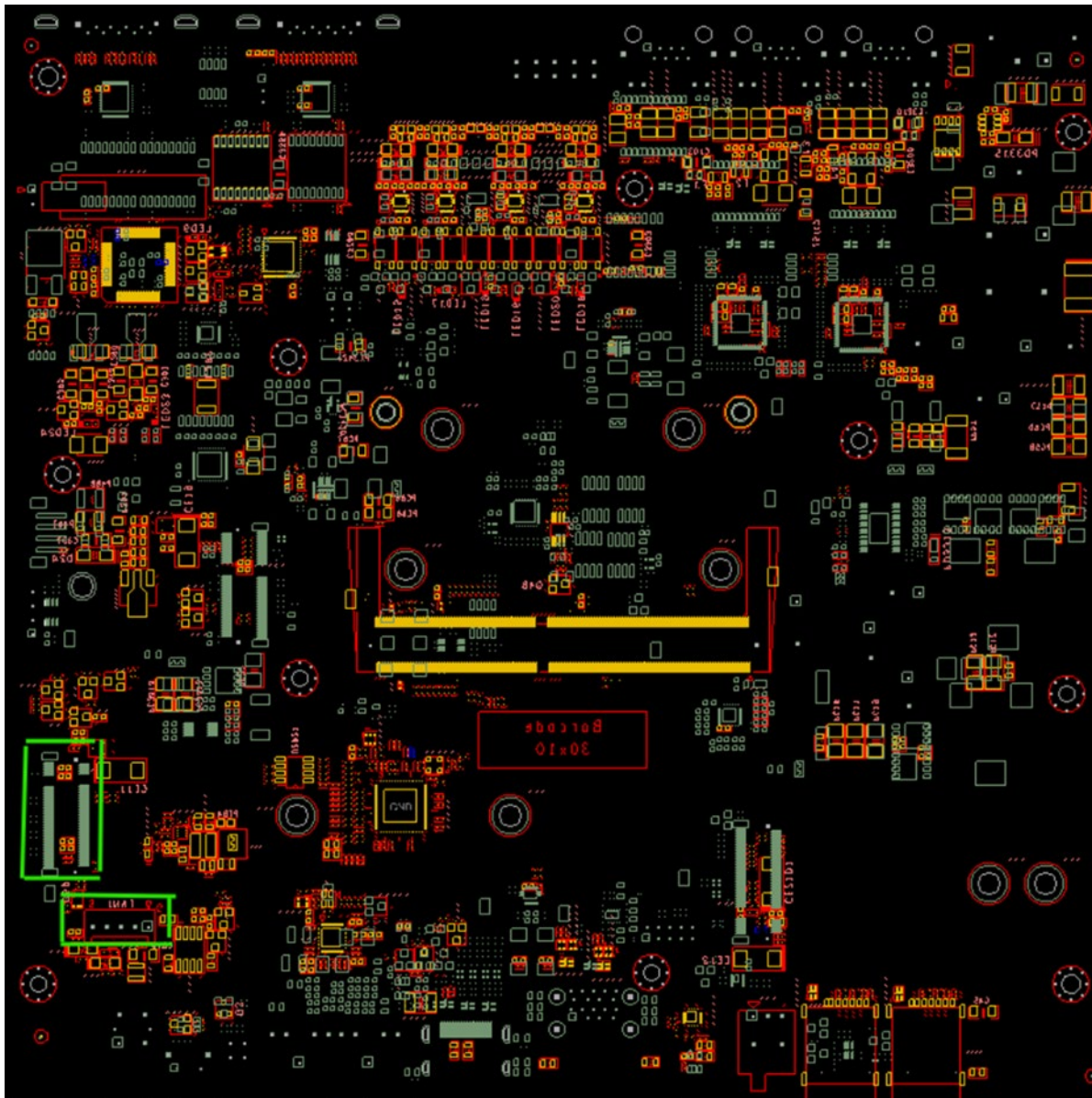
Block Diagram

The block diagram indicates how data flows among components on the motherboard.



Internal Jumpers and Connector

Main Board



Jumper Setting

JCN2

PIN	Description
1-2 (Default)	Normal
2-3	N/A



J7: MCU Burning

PIN	Description
1-2	Normal
2-3 (Default)	ISP mode



J15: MCU Boot Strapping

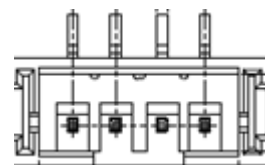
PIN	Description
1-2	IGN
2-3 (Default)	External PWR_BTN



Internal Socket & Slot Pin Assignment

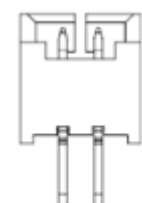
CON1: MCU Update F/W Connector

PIN	Description
1	3.3V
2	MCU_UART_RX_ISP
3	Ground
4	MCU_UART_TX_ISP



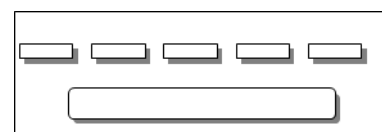
JBAT1: Battery

PIN	Description
w/ Jumper	Disable
w/o Jumper (default)	Enable



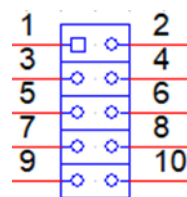
FAN1: Fan Connector

PIN	Description
1	GND
2	12V
3	TACH
4	N/A
5	PWM



SW2: 5G/LTE Pin Header

PIN	Description	PIN	Description
1	PCIE_DIS	2	1V8
3	VBUS_SENSE	4	3V3
5	EM9x9x_VCC	6	3V3
7	EM9x9x_VCC	8	3V3
9	EM9x9x_VCC	10	3V3

**5G/LTE Pin Define**

Jumper	MV32-W /FN990/RM520N	EM9291
1-2	N/A	N/A
3-4	N/A	Y
5-6	N/A	Y
7-8	N/A	Y
9-10	N/A	Y

SW1: MCU Burning Switch

SW1	Normal	Program
1-8, 2-7	ON	OFF
3-6, 4-5	OFF	ON



PIN	Description	PIN	Description
1	IMCU_RX	8	UART1_TXD
2	IMCU_TX	7	UART1_RXD
3	IMCU_RX	6	MCU_UART_RX_ISP
4	IMCU_TX	5	MCU_UART_TX_ISP

SW3: USB 3.0 Connector

SW For Flash SOM

SW3	Force Recovery	VBUS Detect	VBUS DET_N	USBA1 PWR_EN	USB3-A BTM PWR
Normal (1-2)	1.8V	0V	1.8V	1.8V	From SYS
Recovery (2-3)	0V	1.8V	0V	0V	N/A

PIN	Description
1	-X
2	FORCE_RECOVERY_N
3	PAD1/PAD2 GND



DIO1: DI/O DC Converter

PIN	Description	PIN	Description
10	DIO_GND	9	+PIO_COM
8	DO_0_F	7	DI_0_F
6	DO_1_F	5	DI_1_F
4	-X	3	DI_2_F
2	DIO_GND	1	DI_3_F

PW1: Power Connector

Design: 9~36V, nominal: 12V/24V / Current rating 16 Amp

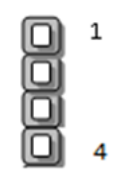
PIN	Description
PAD1	-X
2	DC_IN
1	DC_GND
PAD2	-X

**CONN1: Heater Connector**

PIN	Description
1	+PHEAT
2	DC_IN

**Debug/Sample Development Pin Assignment****J13: UART**

PIN	Description
1	PWR
2	TX
3	RX
4	GND



CHAPTER 3: HARDWARE SETUP

To reduce the risk of personal injury, electric shock, or damage to the unit, please remove all power connections to completely shut down the device, and wear ESD protection gloves when handling the installation steps.

Opening the Chassis

1. Power off the system and disconnect the power cord. Turn the system over. Unscrew the six (6) screws on the bottom chassis cover, two (2) screws on each side panel.



2. Lift and open the chassis.



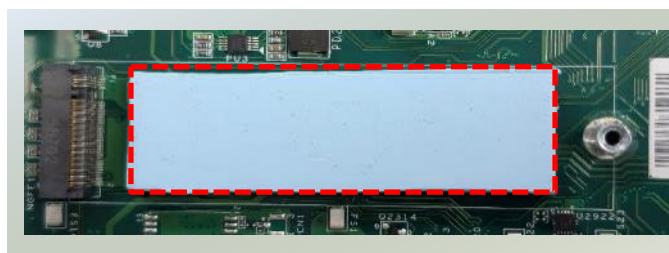
Installing Storage Module Card

The system supports one M.2 M-Key module card slot for additional storage (128GB NVMe SSD included by default). Follow these steps to install an expansion or replacement storage module.

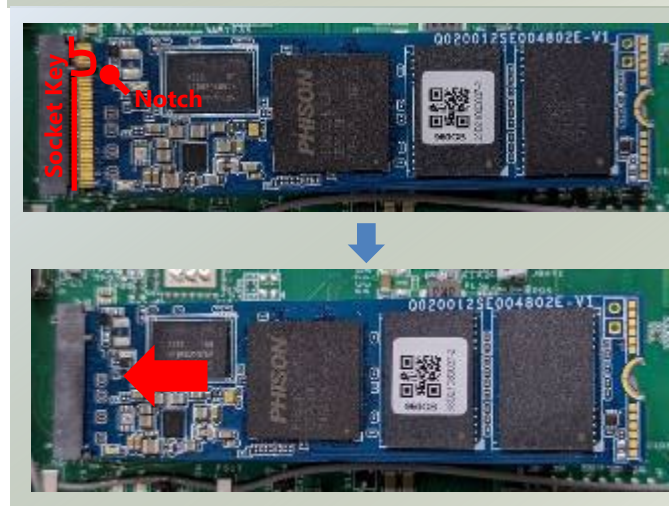
1. Power off the system, turn the system around, and open the bottom chassis cover.
2. Locate the M.2 M-Key slot on the motherboard.



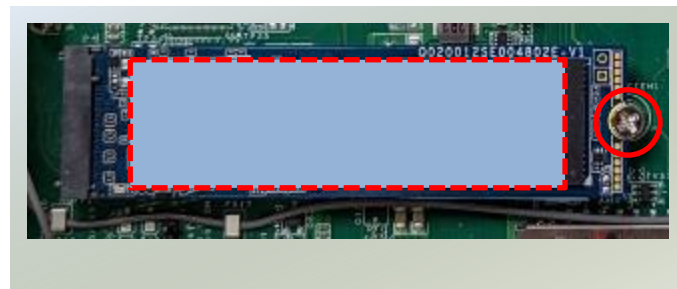
3. Next, place a thermal pad (included in accessory package) on the PCBA board directly beneath the intended module card installation area.



4. Align the notch of the M.2 storage card with the socket key to ensure correct orientation.
5. Insert the M.2 storage card into the socket at a 30-degree angle until the pins are fully seated.



6. Push down on the module card and secure it with one screw.
7. And place a second thermal pad on top over the storage NVMe module card.



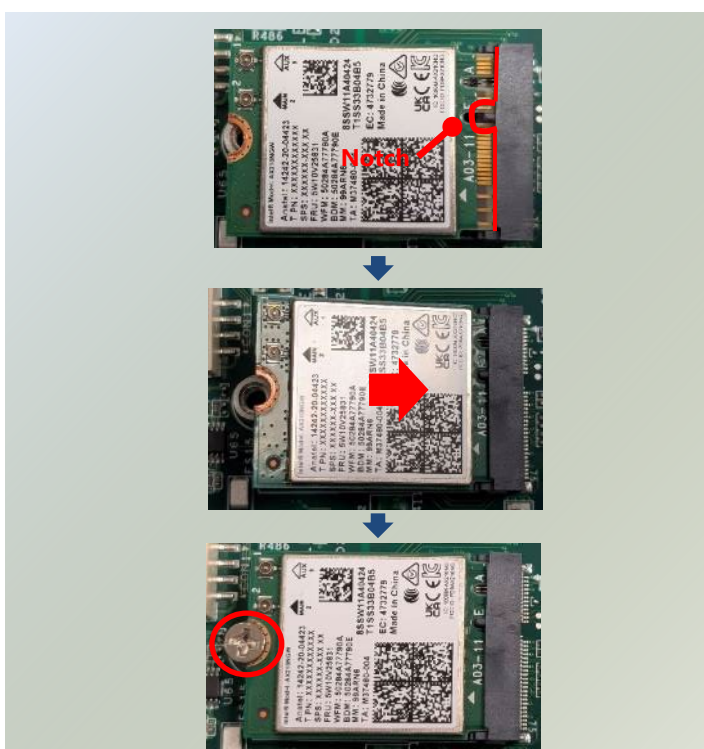
Installing Wi-Fi Module Card (Optional)

The system supports one M.2 E-Key slot for a Wi-Fi module card, an optional accessory. Wi-Fi module requires two antennas. Please follow the steps to install the Wi-Fi module card.

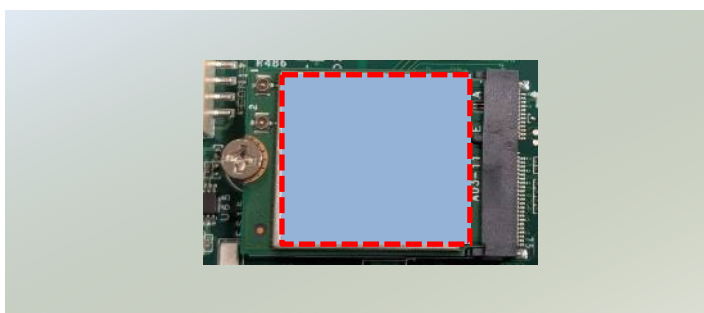
1. Power off the system, turn the system around, and open the bottom chassis cover.
2. Locate the M.2 E-Key slot on the motherboard.



3. Align the notch of the Wi-Fi module card with the socket key to ensure correct orientation.
4. Insert the Wi-Fi module card pins at 30 degrees into the socket until it is fully seated.
5. Push down on the module card and secure it with one screw.



6. Lastly, place a thermal pad (included in accessory package) on **top** over the Wi-Fi module card.

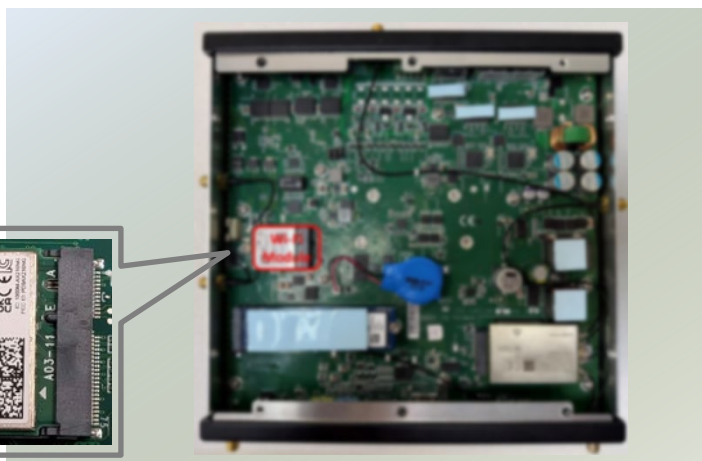


Installing Wi-Fi Antennas

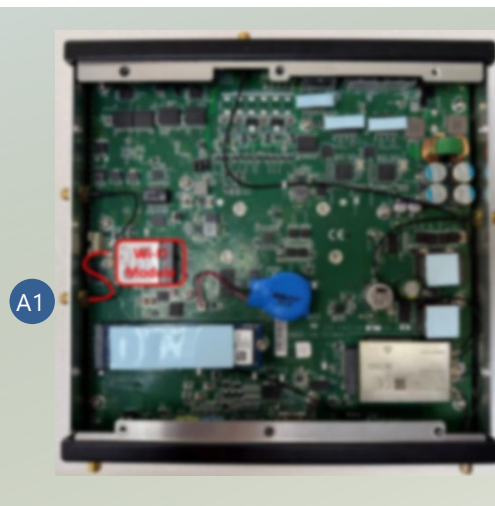
Side Panel



1. Locate the two (2) antenna locations (A1, A2).
Locate the two (2) IPEX connectors on the Wi-Fi module card.



2. Connect the RF cables to the Wi-Fi module card.



3. Screw on the two (2) antennas on the outside of the system.



Installing LTE/5G Module Card (Optional)

This system features one M.2 B-Key slot for an LTE/5G module card, supporting a dual SIM design. LTE module will require two antennas. 5G module will require four antennas. Please follow the procedures for the installation of the 5G module card.

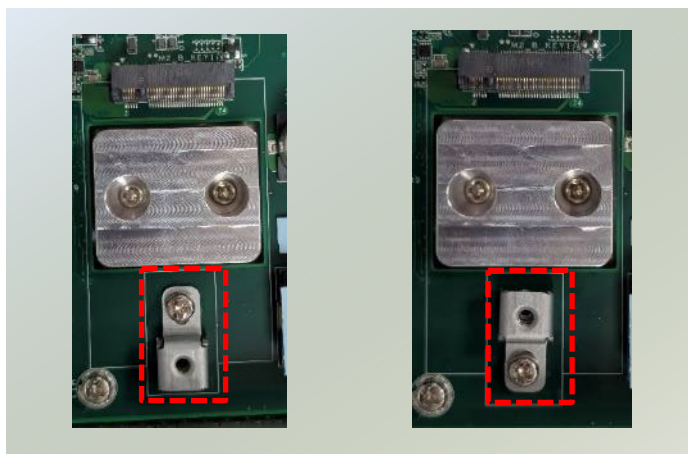
1. Power off the system, turn the system around, and open the bottom chassis cover.
2. Locate the M.2 B-Key slot on the motherboard.



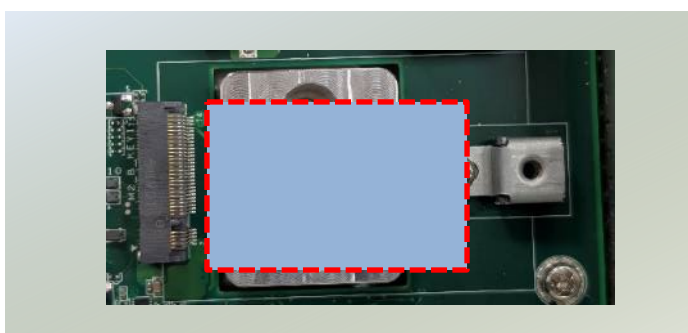
3. Rotate the mounting bracket 90° to accommodate different LTE/5G module sizes/lengths.



Mounting Bracket

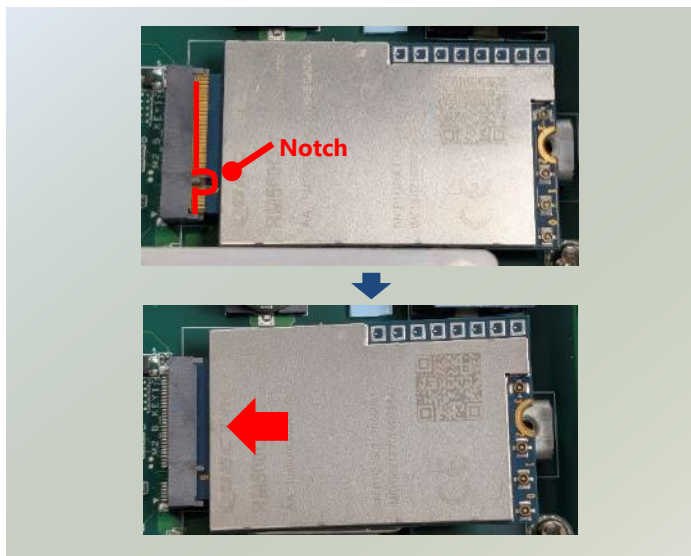


4. Next, place a thermal pad (included in accessory package) on the motherboard directly beneath the intended module card installation area.



5. Align the notch of the 5G module card with the socket key to ensure correct orientation.

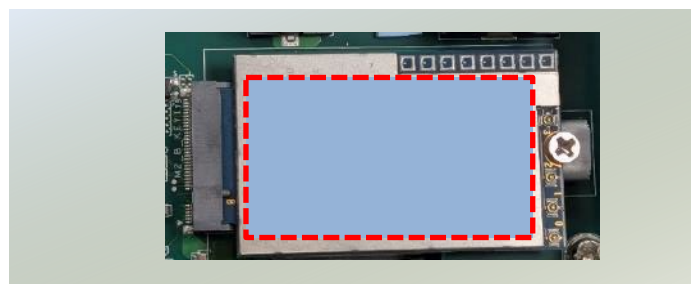
6. Insert the 5G module card pins at 30 degrees into the socket until it is fully seated.



7. Push down on the module card and secure it with one screw.



8. Lastly, place a second thermal pad on **top**, over the LTE/5G module card.



Installing LTE Antennas

Front Panel



1. Locate the two (2) antenna locations (A1, A2).
Locate the two (2) IPEX connectors on the LTE module card.



2. Connect the RF cables to the LTE module card.



3. Screw on the two (2) antennas on the outside of the system.



Installing 5G Antennas

Front & Rear & Side Panel

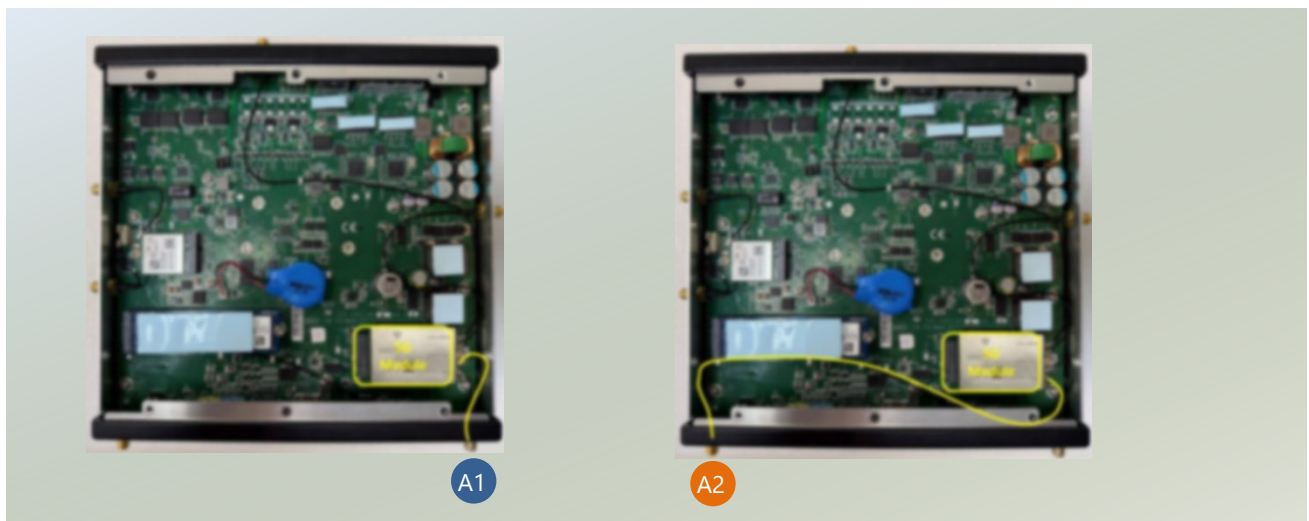


1. Locate the four (4) antenna locations (A1, A2, A3, A4). Locate the four (4) IPEX connectors on the 5G module card.

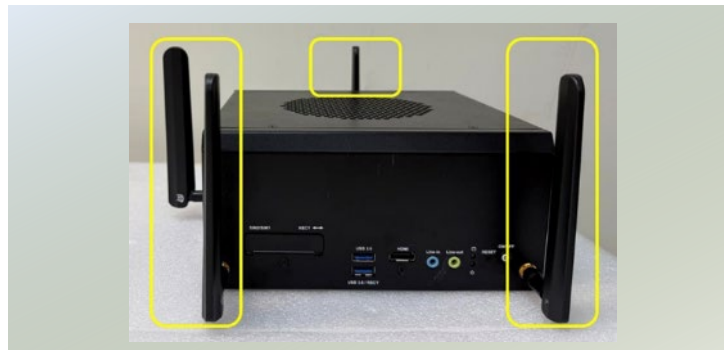


2. Connect the RF cables to the 5G module card.





3. Screw on the four (4) antennas to the outside of the system.



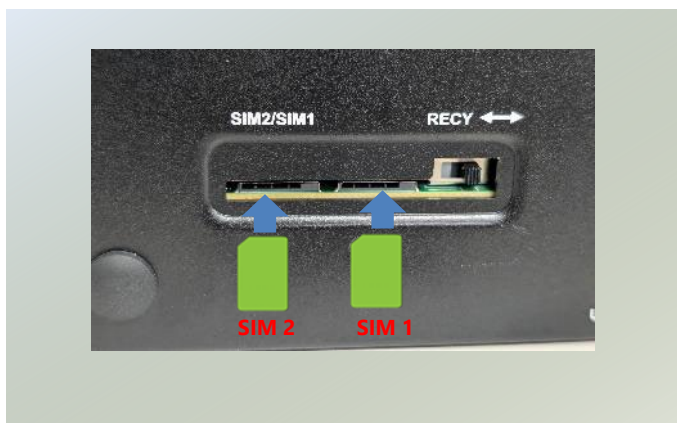
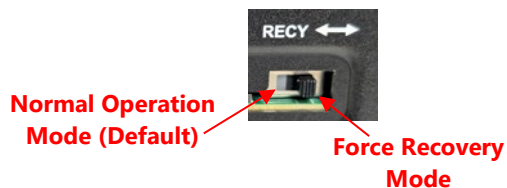
Installing Nano SIM Card (Optional)

The SIM slot on the front panel supports 2x Nano SIM cards. The SIM socket supports the push-push mechanism, allowing inserting and ejecting the SIM card to be as easy as one push.

1. Locate the SIM card cover on the front panel.
2. Loosen and unscrew the one screw on the SIM card cover and remove the cover.



3. Two Nano SIM cards can be placed on the top layer. Insert and push the SIM card, gold contacts facing downwards, all the way in until it clicks into place. Repeat if placing two SIM cards.



4. To remove the SIM card, use your fingertips to push it once, to have the card automatically eject.
5. Place the cover back and secure with one screw.

Wall Mounting (Optional)

The system can be mounted on a flat surfaced wall. Please take the following into considerations when mounting the system onto the wall.

1. The Wallmount Kit includes:

- ▶ 1x pair of Wall Brackets
- ▶ 1x Screw Pack



2. Invert the system to expose the bottom side. Secure the two all brackets to the system using six (6) screws, three (3) per bracket.



3. Now the system can be mounted on a flat surface wall.

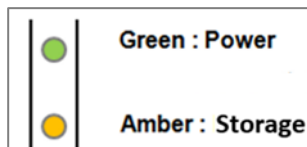


Note

- Installation must be performed by qualified personnel or subcontractors.
- Mounting is recommended on concrete walls.
- For all weight categories, use anti-loosening measures (spring washers, thread locker).
- In industrial environments (vibration, high temperature, outdoor), also apply anti-vibration pads and anti-corrosion screws.
- After installation, periodically inspect mounting points and screw tightness.
- Lanner assumes no liability for damage or injury resulting from mishandling or improper installation.

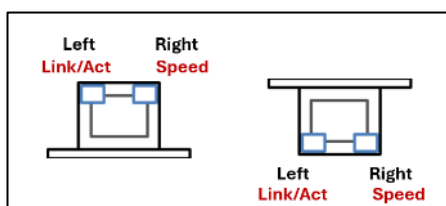
APPENDIX A: LED INDICATOR EXPLANATIONS

► System Power / HDD Activity

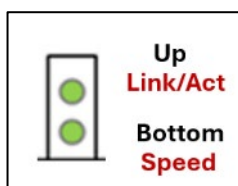


LED	Color	LED Action	Description
Power	Green	Steady	When System Power ON
	OFF	N/A	No Power ON
HDD	Amber	Blinking	Blinking indicates HDD activity, Include SATA / NVME
	OFF	N/A	No Data Access or No Power ON

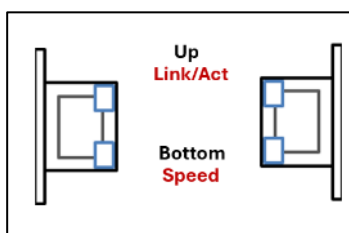
► RJ-45 LAN LED



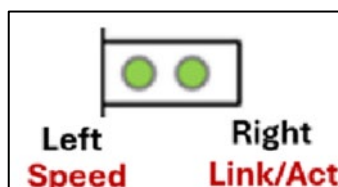
System View for RJ45 with LED definition via Flat-Mount as Rack/Wall/Desk mount



System View for RJ45 without LED definition via Flat-Mount as Rack/Wall/Desk mount

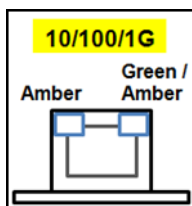


System View for RJ45 with LED definition via DIN-rail / Vertical mount



System View for RJ45 without LED definition via DIN-rail / Vertical mount

► 1Gb RJ45 Define



Speed	Amber (Link/Active)	Green / Amber (Speed)
10M	ON / Blinking (Data Access)	OFF
100M	ON / Blinking (Data Access)	ON (Green)
1G	ON / Blinking (Data Access)	ON (Green)

1. When cable is plug-in and network is linked. Both LED will be bright. The behavior is as defined.
2. Without the Cable plug-in, the LED should be off.
3. If LAN Driver controls the LED, the behavior will follow the driver.

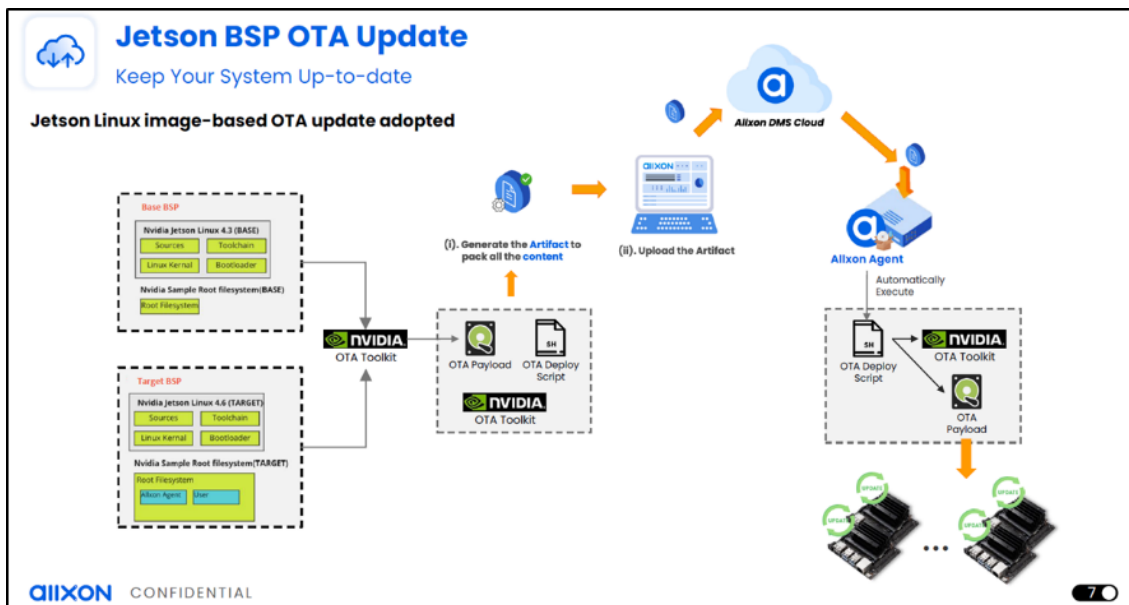
APPENDIX B: POE+ TECHNICAL SPECIFICATIONS

Item	Detailed Specifications
Standard Support	IEEE 802.3at (PoE+) Compliant
PoE Ports	2x RJ45 GbE Ports
Total Power Budget	Max. 60W @ 25°C
Max. Output per Port	Up to 30W per Port (Class 4)
Pin Assignment	Mode A (Endspan): Pins 1, 2(+), 3, 6(-)
Output Voltage	50 ~ 57 VDC (802.3at Compliant)
Protection Mechanisms	PD Detection, Over-Current Protection (OCP), Short-Circuit Protection (SCP)
Thermal Derating	When ambient temperature exceeds 50C, it is recommended to derate the total output power to 45W to maintain system stability.

APPENDIX C: ALLXON & JETSON BSP OTA UPDATE

The NVIDIA Jetson Board Support Package (BSP), including the Linux kernel and drivers, powers the Jetson platform. Over-The-Air (OTA) updates keep devices like Lanner's EAI-I134 5G Edge AI Gateways secure, optimized, and up to date—essential for edge AI systems with limited physical access. OTA enables remote Jetson Linux updates and application deployment without the need for a local connection.

Allxon's cloud-based platform simplifies and scales Jetson BSP OTA updates, enabling administrators to remotely manage large fleets of gateways and maintain consistent security and performance.



OTA Process flow

A. Build up and Verify the Payload Package

Over-the-Air (OTA) updates let you remotely update NVIDIA Jetson devices and host systems. With Image-Based OTA, pre-generated system images are written partition by partition, providing a reliable method to update the full Board Support Package (BSP).

For more information on NVIDIA OTA Payload Package preparation, please go to [NVIDIA Updating Jetson Linux](#).

B. Sign up for Allxon account and Install Allxon Agent

Create an Allxon account and activate a subscription to access the cloud management platform. Install the Allxon agent on the device to enable remote OTA deployment and centralized device management.

For more information and step-by-step instructions, please go to [Lanner Website](#) for **Allxon & Jetson BSP OTA Update Guide**, and more information on [Allxon Website](#).

APPENDIX C: TERMS AND CONDITIONS

Warranty Policy

1. All products are under warranty against defects in materials and workmanship for a period of one year from the date of purchase.
2. The buyer will bear the return freight charges for goods returned for repair within the warranty period; whereas the manufacturer will bear the after-service freight charges for goods returned to the user.
3. The buyer will pay for the repair (for replaced components plus service time) and transportation charges (both ways) for items after the expiration of the warranty period.
4. If the RMA Service Request Form does not meet the stated requirement as listed on "RMA Service," RMA goods will be returned at customer's expense.
5. The following conditions are excluded from this warranty:
 - ▶ Improper or inadequate maintenance by the customer
 - ▶ Unauthorized modification, misuse, or reversed engineering of the product
 - ▶ Operation outside of the environmental specifications for the product.

RMA Service

Requesting an RMA#

1. To obtain an RMA number, simply fill out and fax the "RMA Request Form" to your supplier.
2. The customer is required to fill out the problem code as listed. If your problem is not among the codes listed, please write the symptom description in the remarks box.
3. Ship the defective unit(s) on freight prepaid terms. Use the original packing materials when possible.
4. Mark the RMA# clearly on the box.



Note: Customer is responsible for shipping damage(s) resulting from inadequate/loose packing of the defective unit(s). All RMA# are valid for 30 days only; RMA goods received after the effective RMA# period will be rejected.

RMA Service Request Form

When requesting RMA service, please fill out the following form. Without this form enclosed, your RMA cannot be processed.

RMA No.:		Reasons to Return: ☐ Repair(Please include failure details)	
		☐ Testing Purpose	
Company:		Contact Person:	
Phone No.		Purchased Date:	
Fax No.:		Applied Date:	
Return Shipping Address: _____			
Shipping by: ☐ Air Freight ☐ Sea ☐ Express_____			
☐ Others:_____			
Item	Model Name	Serial Number	Configuration

Item	Problem Code	Failure Status

*Problem Code:

01:D.O.A.	07: BIOS Problem	13: SCSI	19: DIO
02: Second Time	08: Keyboard Controller Fail	14: LPT Port	20: Buzzer
R.M.A.	09: Cache RMA Problem	15: PS2	21: Shut Down
03: CMOS Data Lost	10: Memory Socket Bad	16: LAN	22: Panel Fail
04: FDC Fail	11: Hang Up Software	17: COM Port	23: CRT Fail
05: HDC Fail	12: Out Look Damage	18: Watchdog Timer	24: Others (Pls specify)
06: Bad Slot			

Request Party

Confirmed By Supplier

Authorized Signature / Date

Authorized Signature / Date