

GIGABYTE™

W775-V10-L01

Deskside AI Supercomputer - NVIDIA GB300 Grace Blackwell Ultra Desktop Superchip

User Manual

Rev. 1.0

Copyright

© 2026 Giga Computing TECHNOLOGY CO., LTD. All rights reserved.

The trademarks mentioned in this manual are legally registered to their respective owners.

Disclaimer

Information in this manual is protected by copyright laws and is the property of Giga Computing. Changes to the specifications and features in this manual may be made by Giga Computing without prior notice. No part of this manual may be reproduced, copied, translated, transmitted, or published in any form or by any means without Giga Computing's prior written permission.

Documentation Classifications

In order to assist in the use of this product, Giga Computing provides the following types of documentation:

- User Manual: detailed information & steps about the installation, configuration and use of this product (e.g. motherboard, server barebones), covering hardware and BIOS.
- User Guide: detailed information about the installation & use of an add-on hardware or software component (e.g. BMC firmware, rail-kit) compatible with this product.
- Quick Installation Guide: a short guide with visual diagrams that you can reference easily for installation purposes of this product (e.g. motherboard, server barebones).

Please see the support section of the online product page to check the current availability of these documents.

For More Information

For related product specifications, the latest firmware and software, and other information please visit our website at <http://www.gigabyte.com/Enterprise>

For any general sales or marketing enquiries, you may also message GIGABYTE server directly by email: marketing@gigacomputing.com

For Playbooks - <https://build.nvidia.com/station>

For DGX Station Development Guide - <https://docs.nvidia.com/dgx/dgx-station-development-guide/>

Conventions

The following conventions are used in this user's guide:

	NOTE! Gives bits and pieces of additional information related to the current topic.
	CAUTION! Gives precautionary measures to avoid possible hardware or software problems.
	WARNING! Alerts you to any damage that might result from doing or not doing specific actions.

Warnings and Cautions

Before installing, be sure that you understand the following warnings and cautions.



WARNING!

To reduce the risk of electric shock or damage to the equipment:

- Do not disable the power cord grounding plug. The grounding plug is an important safety feature.
- Plug the power cord into a grounded (earthed) electrical outlet that is easily accessible at all times.
- Unplug all the power cords from the power supplies to disconnect power to the equipment.
- Shock Hazard! Disconnect all power supply cords before servicing.
- Do not route the power cord where it can be walked on or pinched by items placed against it. Pay particular attention to the plug, electrical outlet, and the point where the cord extends from the system.



WARNING!

To reduce the risk of personal injury from hot surfaces, allow the drives and the internal system components to cool before touching them.



CAUTION!

- Do not operate the system for long periods with the access panel open or removed. Operating the system in this manner results in improper airflow and improper cooling that can lead to thermal damage.
- Danger of explosion if battery is incorrectly replaced.
- Replace only with the same or equivalent type recommended by the manufacturer.
- Dispose of used batteries according to the manufacturer's instructions.

Electrostatic Discharge (ESD)



CAUTION!

ESD CAN DAMAGE DRIVES, BOARDS, AND OTHER PARTS. WE RECOMMEND THAT YOU PERFORM ALL PROCEDURES AT AN ESD WORKSTATION. IF ONE IS NOT AVAILABLE, PROVIDE SOME ESD PROTECTION BY WEARING AN ANTI-STATIC WRIST STRAP ATTACHED TO CHASSIS GROUND -- ANY UNPAINTED METAL SURFACE -- ON YOUR SYSTEM WHEN HANDLING PARTS.

Always handle boards carefully. They can be extremely sensitive to ESD. Hold boards only by their edges without any component and pin touching. After removing a board from its protective wrapper or from the system, place the board component side up on a grounded, static free surface. Use a conductive foam pad if available but not the board wrapper. Do not slide board over any surface.

System power on/off: To remove power from system, you must remove the system from rack. Make sure the system is removed from the rack before opening the chassis, adding, or removing any non hot-plug components (Note: Boot up can take up to 5 minutes).

Hazardous conditions, devices and cables: Hazardous electrical conditions may be present on power, telephone, and communication cables. Turn off the system and disconnect the cables attached to the system before servicing it. Otherwise, personal injury or equipment damage can result.

Electrostatic discharge (ESD) and ESD protection: ESD can damage drives, boards, and other parts. We recommend that you perform all procedures in this chapter only at an ESD workstation. If one is not available, provide some ESD protection by wearing an antistatic wrist strap attached to chassis ground (any unpainted metal surface on the system) when handling parts.

ESD and handling boards: Always handle boards carefully. They can be extremely sensitive to electrostatic discharge (ESD). Hold boards only by their edges. After removing a board from its protective wrapper or from the system, place the board component side up on a grounded, static free surface. Use a conductive foam pad if available but not the board wrapper. Do not slide board over any surface.

Installing or removing jumpers: A jumper is a small plastic encased conductor that slips over two jumper pins. Some jumpers have a small tab on top that can be gripped with fingertips or with a pair of fine needle nosed pliers. If the jumpers do not have such a tab, take care when using needle nosed pliers to remove or install a jumper; grip the narrow sides of the jumper with the pliers, never the wide sides. Gripping the wide sides can damage the contacts inside the jumper, causing intermittent problems with the function controlled by that jumper. Take care to grip with, but not squeeze, the pliers or other tool used to remove a jumper, or the pins on the board may bend or break.

**CAUTION!**

Risk of explosion if battery is replaced incorrectly or with an incorrect type. Replace the battery only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Regulatory Notices

WEEE Symbol Statement



The symbol shown below is on the product or on its packaging, which indicates that this product must be disposed of with other waste. Instead, the device should be taken to the waste collection centers for activation of the treatment, collection, recycling and disposal procedure. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

For more information about where you can drop off your waste equipment for recycling, please contact your local government office, your household waste disposal service or where you purchased the product for details of environmentally safe recycling.

- When your electrical or electronic equipment is no longer useful to you, "take it back" to your local or regional waste collection administration for recycling.

Restriction of Hazardous Substances (RoHS) Directive Statement

GIGABYTE products have not intended to add and safe from hazardous substances (Cd, Pb, Hg, Cr+6, PBDE and PBB). The parts and components have been carefully selected to meet RoHS requirement. Moreover, we at GIGABYTE are continuing our efforts to develop products that do not use internationally banned toxic chemicals.

California Proposition 65 Warning



WARNING!

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer, and Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



Battery WARNING!

This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer, and Bisphenol A (BPA), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

電器規格及使用溫度: 參考以下標示

Rating(交流輸入)	100-240V~, 15-12A, 50-60Hz
Operating Temperature	10°C to 35°C
Non-operating temperature	-40°C to 60°C
Operating humidity	8%-80% (non-condensing)
Non-operating humidity	20%-95% (non-condensing)

伺服器相關警告與注意事項



警告

為了避免電擊危險或損壞設備請注意:

- 不要切斷電源線的接地端子，接地端子是一個很重要的安全防護。
- 將電源線接到有接地功能的插座，此插座需位於使用者容易使用的範圍。
- 電源線的配線要避免被踩到，被絆到或被過度彎折，重壓。



警告

- 本設備關機後內部仍存在電源，須拔掉電源線才能完全切掉設備內部的電源。
- 更換零件前請確定電源已經完全切斷。
- 電源線,電話線，網路線可能帶電，維修前除了移除電源線外也請移除所有連接線，避免電擊傷害或是設備損壞。
- 維修非支援熱插拔的零件時須將伺服器從機櫃取下才能維修。



警告

- 避免人員燙傷，觸摸磁碟機或是內部零件前請確保該零件已經冷卻。



警告

- 伺服器中有高速風扇，維修時請遠離風扇避免受傷。



警告

- 本設備不能用在有兒童出現的區域。



警告

- 如果更換錯誤電池會產生爆炸，請以相同或同型號電池更換使用。
- 廢電池請回收。



廢電池請回收

警告：如果更換錯誤電池會產生爆炸 請以相同或同型電池更換使用



注意

- 伺服器開機時不要長時間移除蓋子，長時間移除蓋子會造成散熱功能失效造成損壞。



注意

- 靜電會損害電子產品，建議您在符合靜電防護的工作環境操作伺服器，如果無法確定環境的靜電防護。請穿上靜電手環並且將手環接到有接地的金屬表面如機櫃或機殼。
- 拿取電路板時僅觸碰板子的邊緣，不要觸碰連接器。板子從防靜電包裝取出後只能放置在無靜電的桌面，零件面朝上。如果可以，請使用防靜電泡棉。避免使用靜電袋。避免電路板與任何表面摩擦產生靜電。

WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH OF CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



- Battery type: CR2032, voltage rating: +3VDC.
- Non-rechargeable batteries are not to be recharged.
- Remove and immediately recycle or dispose of used batteries, batteries from equipment not used for an extended period of time according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- For treatment information, call a local poison control center.
- The product contains non-replaceable batteries.

設備名稱：工作站		型號（型式）：W775-V10				
單元	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr+6)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
電路板 總成	—	○	○	○	○	○
冷卻器 (風扇)	—	○	○	○	○	○
鐵殼	○	○	○	○	○	○
電源 供應器	—	○	○	○	○	○
線材	○	○	○	○	○	○

備考1. “超出0.1 wt %” 及 “超出0.01 wt %” 係指限用物質之百分比含量超出百分比含量基準值。
Note 1：“Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。
Note 2：“○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3. “—” 係指該項限用物質為排除項目。
Note 3：The “—” indicates that the restricted substance corresponds to the exemption.

報驗義務人：
技鋼科技股份有限公司
新北市新店區寶強路6號7樓

Table of Contents

Chapter 1 Getting Started	13
Chapter 2 Hardware Installation	18
2-1 Installation Precautions	18
2-2 Product Specifications	19
2-3 System Block Diagram	21
Chapter 3 System Appearance	22
3-1 Top View	22
3-2 Rear View	23
3-3 Rear Panel System LAN LEDs	24
3-4 System Components	25
Chapter 4 System Hardware Installation	26
4-1 Removing/Installing the Chassis Side Cover and Top Cover	27
4-2 Installing the GPU and Fan Wall Assembly	28
4-2-1 Type 1 GPU (NVIDIA RTX PRO™ 6000 Blackwell Workstation Edition)	28
4-2-2 Type 2 GPU (NVIDIA RTX PRO™ 6000 Blackwell Max-Q)	30
4-3 Removing the Fan Wall	32
4-4 Installing M.2 Module	33
4-5 Installing WiFi Module	34
4-6 Peripheral Devices Connection	36
Chapter 5 BIOS Setup	37
5-1 The Main Menu	39
5-2 Advanced Menu	41
5-2-1 Console Redirection Configuration	42
5-2-2 H2OUve Configuration	43
5-2-3 H2O Redfish Configuration	44
5-2-4 H2O IPMI Configuration	45
5-2-5 NVIDIA Configuration	48
5-2-6 PCIe Option Rom Configuration	54
5-2-7 PXE Configuration	55
5-2-8 CPU Information	56
5-2-9 Memory Information	57
5-2-10 NVM Express Information	59
5-2-11 PCI Device Information	64
5-2-12 USB Device Viewer	66
5-3 Security Menu	67
5-3-1 Storage Password Setup Page	69

5-3-2	Security Erase	70
5-3-3	TLS Certificate Manager.....	71
5-4	Boot Menu.....	72
5-5	Exit Menu	74
Chapter 6	Troubleshooting	75
6-1	Collecting BIOS POST Code Logs.....	75
6-1-1	Dump Current POST Code.....	75
6-1-2	Dump Previous POST Code.....	76
6-2	Standard Operating Procedure for Leaks	77



NOTE! For detailed BMC setup and management information, please refer to the BMC User Guide, available at : https://download.gigabyte.com/FileList/Manual/%20server_manual_w775-v10_bmc_user_guide_insyde

Chapter 1 Getting Started

This guide provides a step-by-step walkthrough to get your system up and running, from unboxing to initial system configuration and developer deployment.

Step 1: Unboxing and Hardware Inspection

- **Inspecting the Package:** Carefully unbox the chassis and verify that all ordered components, accessory kits, and power cables are present and undamaged.
- **Safety Warning (Team Lift)**



CAUTION: The system is heavy (Weight: 28 kg). To prevent personal injury or damage to the equipment, a 2-person team lift is strictly required when removing the system from its packaging or moving it to its desktide location.

Step 2: Hardware Connection

Before powering on the system, make the following essential cable connections at the rear I/O panel:

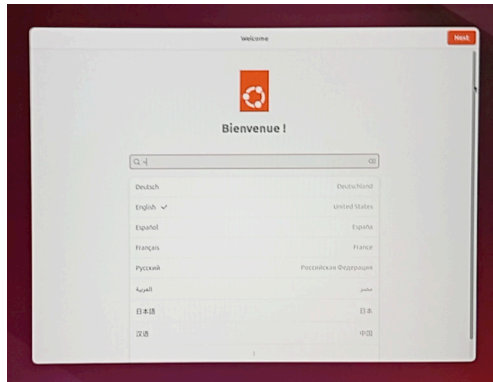
- **Display Output:** Connect your display signal cable to the mini DisplayPort (mini-DP) connector on the motherboard. Ensure the cable is plugged into the motherboard's onboard mini-DP port located in the rear I/O panel.
- **Peripherals & Network:** Connect the USB cables for your keyboard and mouse, and plug in the LAN cable to ensure active network connectivity during initial provisioning.



Step 3: Out-of-Box Experience (OOBE) Provisioning

Once powered on, the system will boot into the Ubuntu initialization wizard:

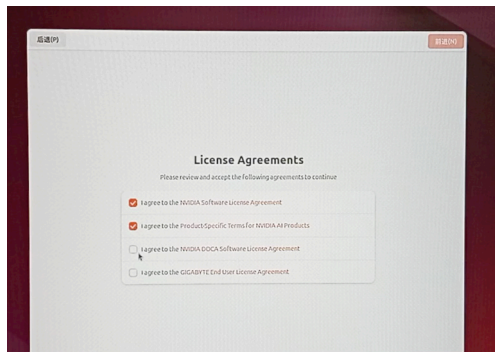
- **Language & Keyboard:** Select your preferred system operating language and choose the appropriate keyboard layout.



Note

The following screenshots are shown with Simplified Chinese localization selected during the installation process.)

- **License Agreements:** Review and accept the software and hardware license terms, including the NVIDIA driver agreements and GIGABYTE platform terms.

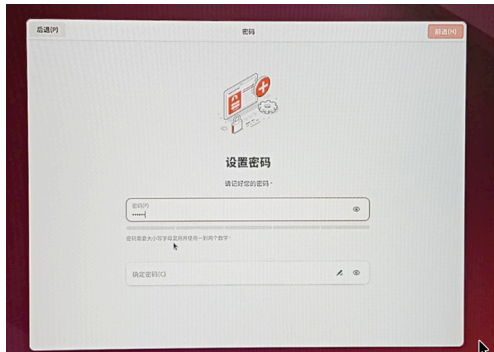


- **Timezone Setup:** Verify the network-detected timezone (e.g., CST / Taipei) and click Next.



- **User Account Creation:** Create your local administrator profile by entering a full name, username, and a secure password.



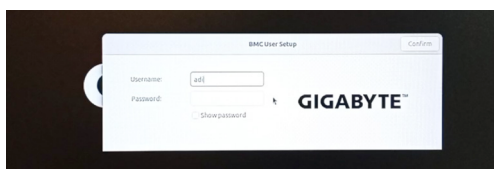


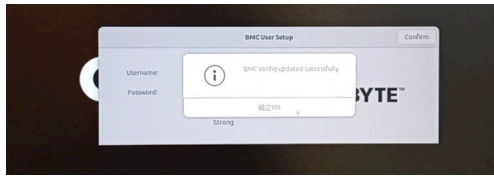
Step 4: First Boot and BMC User Initialization

- **Initial Desktop Landing:** After setup completion, the system reboots into the Ubuntu desktop environment. Follow the onboarding wizard to configure optional features like Ubuntu Pro for extended security support.



- **BMC User Setup:** A dedicated "BMC User Setup" dialog overlay will automatically prompt on the desktop. Enter your designated administrator credentials (e.g., Username: admin) and set a strong password to initialize the Baseboard Management Controller (BMC) for hardware-level remote monitoring and management. The password must be between 8 and 20 characters in length and contain at least one uppercase letter, one lowercase letter, one number, and one special character.





Step 5: Playbooks & Developer Documentation

Now that your environment is fully initialized and landing at the desktop, you are ready to begin deployment:

- Find examples to run the most powerful AI workloads on NVIDIA GB300 Grace Blackwell Ultra Desktop Superchip. <https://build.nvidia.com/station>
- **Developer Documentation:** Please refer to the developer documentation directory or visit official developer portal online. <https://docs.nvidia.com/dgx/dgx-station-development-guide/>

Chapter 2 Hardware Installation

2-1 Installation Precautions

The motherboard/system contain numerous delicate electronic circuits and components which can become damaged as a result of electrostatic discharge (ESD). Prior to installation, carefully read the user manual and follow these procedures:

- Prior to installation, do not remove or break motherboard S/N (Serial Number) sticker or warranty sticker provided by your dealer. These stickers are required for warranty validation.
- Always remove the AC power by unplugging the power cord from the power outlet before installing or removing the motherboard or other hardware components.
- When connecting hardware components to the internal connectors on the motherboard, make sure they are connected tightly and securely.
- When handling the motherboard, avoid touching any metal leads or connectors.
- It is best to wear an electrostatic discharge (ESD) wrist strap when handling electronic components such as a motherboard, CPU or memory. If you do not have an ESD wrist strap, keep your hands dry and first touch a metal object to eliminate static electricity.
- Prior to installing the motherboard, please have it on top of an antistatic pad or within an electrostatic shielding container.
- Before unplugging the power supply cable from the motherboard, make sure the power supply has been turned off.
- Before turning on the power, make sure the power supply voltage has been set according to the local voltage standard.  **NOTE!** Boot up can take up to 5 minutes
- Before using the product, please verify that all cables and power connectors of your hardware components are connected.
- To prevent damage to the motherboard, do not allow screws to come in contact with the motherboard circuit or its components.
- Make sure there are no leftover screws or metal components placed on the motherboard or within the computer casing.
- Do not place the computer system on an uneven surface.
- Do not place the computer system in a high-temperature environment.
- Turning on the computer power during the installation process can lead to damage to system components as well as physical harm to the user.
- If you are uncertain about any installation steps or have a problem related to the use of the product, please consult a certified computer technician.
- On initial power on, there may be a 3-5 minute period before it appears that the system is booting (screen turns on, etc). This is due to BMC initialization. After BMC initialization is complete, the power button will turn on the system normally.

2-2 Product Specifications



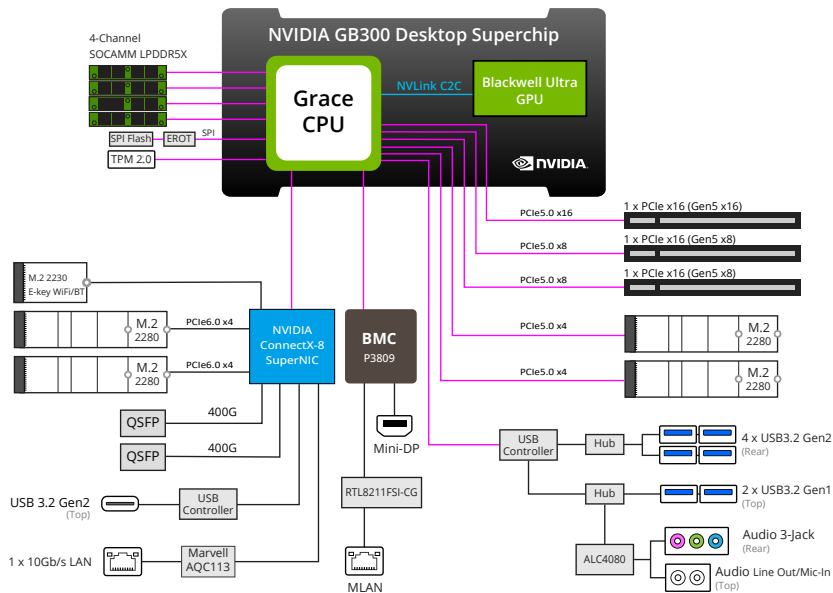
NOTE:

We reserve the right to make any changes to the product specifications and product-related information without prior notice.

 System Dimension	◆ Pedestal ◆ 245 x 500.4 x 531 mm
 Superchip	NVIDIA GB300 Grace Blackwell Ultra Desktop Superchip: ◆ 1x NVIDIA Grace 72-Core Neoverse V2 ◆ 1 x NVIDIA Blackwell Ultra GPU ◆ Connected with NVIDIA NVLink™-C2C
 Memory	NVIDIA Grace CPU: ◆ 496 GB of LPDDR5X memory with ECC ◆ 396 GB/s memory bandwidth NVIDIA Blackwell Ultra GPU: ◆ 252 GB HBM3E ◆ 7.1 TB/s memory bandwidth
 LAN	◆ 2 x 400 Gb/s QSFP (1 x NVIDIA ConnectX®-8 SuperNIC™) ◆ 1 x 10 Gb/s LAN (1 x Marvell AQC113) ◆ 1 x 10/100/1000 Mbps Management LAN
 Video	◆ Integrated in onboard BMC - 1 x Mini-DP (1920X1080@60Hz) ◆ Optional Graphic cards: - NVIDIA RTX PRO 6000 Blackwell Workstation Edition - NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition - NVIDIA RTX PRO 4000 Blackwell SFF Edition - NVIDIA RTX PRO 2000 Blackwell
 Audio	◆ Realtek® ALC4080 Audio Codec ◆ Front: 2 x Audio jacks (Audio out/Mic) ◆ Rear: 3 x Audio jacks (Audio in/Audio out/Mic)
 Storage	Internal M.2: ◆ 2 x M.2 (2280), PCIe Gen5 x4, from CPU (With software RAID 1 support) ◆ 2 x M.2 (2280), PCIe Gen6 x4, from ConnectX-8
 Expansion Slot	◆ Slot_1: PCIe x16 (Gen5 x16 for Graphic Card) ◆ Slot_2: PCIe x16 (Gen5 x8) ◆ Slot_3: PCIe x16 (Gen5 x8) ◆ 1 x M.2 (2230), E-key (Wi-Fi), PCIe Gen2 x1, from ConnectX-8

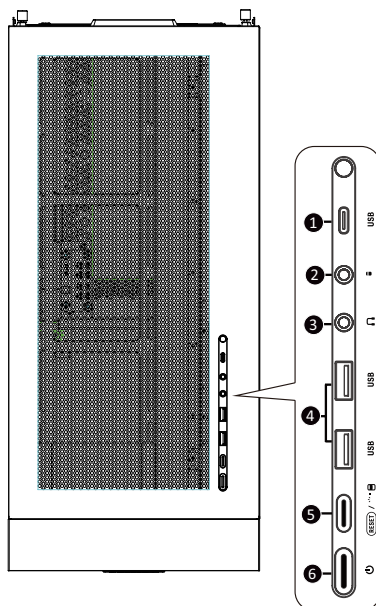
	Front I/O	◆ 1 x USB 3.2 Gen2 port (Type-C) (Output: 5V) ◆ 2 x Audio jacks (Audio out/Mic) ◆ 2 x USB 3.2 Gen1 ports (Type-A) ◆ 1 x Reset button with storage activity LED ◆ 1 x Power button with LED
	Rear I/O	◆ 2 x QSFP ports ◆ 4 x USB 3.2 Gen2 ports (Type-A) ◆ 1 x MLAN port ◆ 1 x RJ45 port ◆ 3 x Audio jacks (Audio in/Audio out/Mic) ◆ 1 x Micro USB port (USB-to-UART) ◆ 1 x Mini-DP ◆ 2 x Wi-Fi antenna ports
	Power Supply	◆ Single 1600 W ATX 80 PLUS Platinum power supply^[1] ^[1] The system power supply requires C19 power cord. ^[Note] 115-240 V AC input is recommended for optimized user experience. ^[Note] System requires a 20-amp circuit to plug-in.
	OS Compatibility	◆ Ubuntu with NVIDIA AI Developer Tools
	System Fans	◆ 3 x 120x120x25mm
	Operating Properties	◆ Operating temperature: 10°C to 35°C ◆ Operating humidity: 8-80% (non-condensing) ◆ Non-operating temperature: -40°C to 60°C ◆ Non-operating humidity: 20%-95% (non-condensing) ^[Note] To ensure system stability and prevent condensation, when the relative humidity exceeds 50%, the coolant inlet temperature must be higher than the dry-bulb temperature and it should not exceed 45°C.

2-3 System Block Diagram



Chapter 3 System Appearance

3-1 Top View



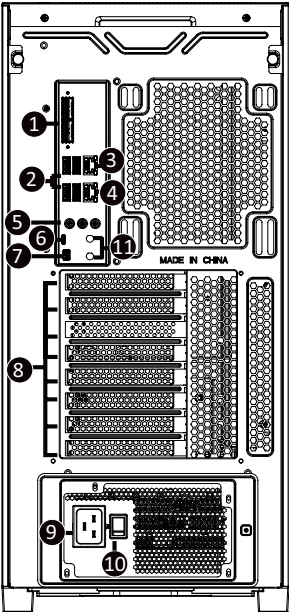
No.	Description	No.	Description
1.	USB3.2 Gen2 type C port	5.	RESET Button / HDD LED
2.	MIC-in	6.	Power Button
3.	Line Out		
4.	2 x USB 3.2 Gen1 Type A Port		



NOTE!

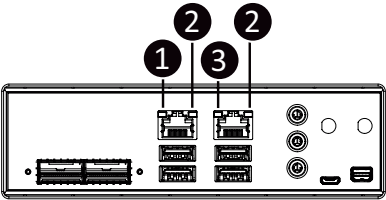
On initial boot, it may take up to 5 minutes for the system to initialize and power on.
This is due to BMC initialization.

3-2 Rear View



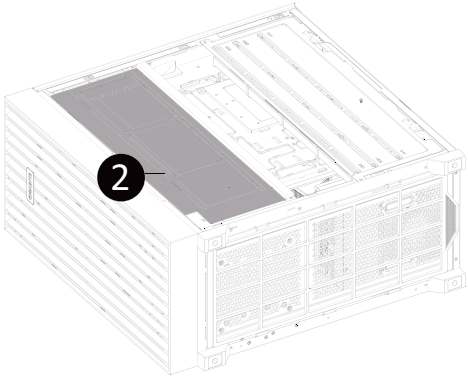
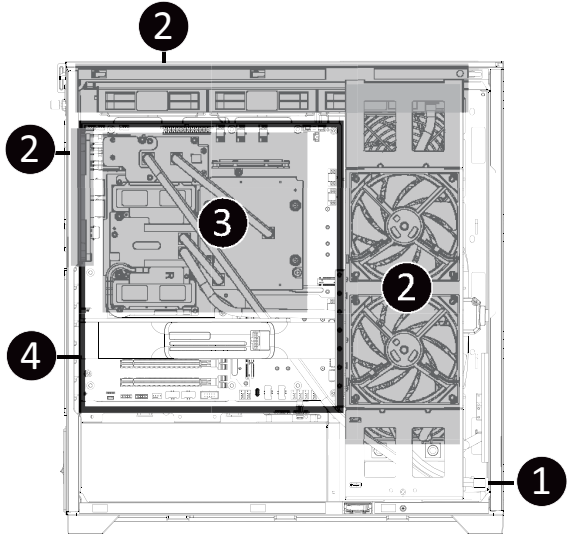
No.	Description	No.	Description
1.	2 x QSFP	6.	UART
2.	4 x USB 3.2 Gen2 Type A Port	7.	Mini Display Port
3.	Sever Management LAN Port	8.	PCIe Card Bay
4.	Data LAN Port	9.	Power Connector
5	MIC-IN (Left)/LINE-OUT (Middle)/LINE-IN (Right)	10.	Power Switch
		11.	Wi-Fi antenna ports

3-3 Rear Panel System LAN LEDs



No.	Name	Color	Status	Description
1.	1GbE Speed LED	Green	On	1 Gbps data rate
		Amber	On	100 Mbps data rate
		Amber	Off	10 Mbps data rate
2.	1GbE Link / Activity LED	Green	On	Link between system and network or no access
			Blink	Data transmission or reception is occurring.
		N/A	Off	No data transmission or reception is occurring.
3.	10GbE Speed LED	Green	On	10 Gbps data rate
		Amber	On	5, 2.5, 1Gbps data rate
		Amber	Off	100 Mbps data rate

3-4 System Components



No.	Description
1	Liquid Pump
2	Fans
3	Cold Plate
4	System Board

Chapter 4 System Hardware Installation



Pre-installation Instructions

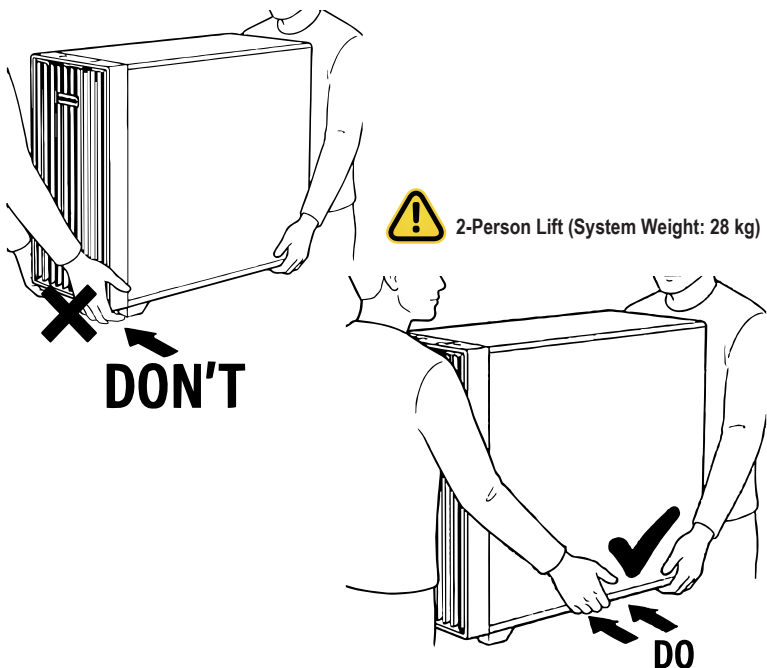
Computer components and electronic circuit boards can be damaged by electrostatic discharge. Working on computers that are still connected to a power supply can be extremely dangerous. Follow the simple guidelines below to avoid damage to your computer or injury to yourself.

- Always disconnect the computer from the power outlet whenever you are working inside the computer case.
- If possible, wear a grounded wrist strap when you are working inside the computer case. Alternatively, discharge any static electricity by touching the bare metal system of the computer case, or the bare metal body of any other grounded appliance.
- Hold electronic circuit boards by the edges only. Do not touch the components on the board unless it is necessary to do so. Do not flex or stress the circuit board.
- Leave all components inside the static-proof packaging until you are ready to use the component for the installation.



Moving Instructions

- **DO NOT** lift or hold the chassis by the bottom of the front panel. The front panel is made of plastic and cannot support the system's weight.
- **CORRECT METHOD:** Reach fully underneath the metal chassis base (behind the case feet) to grip the frame securely. Always lift as a team to share the weight.



4-1 Removing/Installing the Chassis Side Cover and Top Cover



Before you remove or install the chassis cover

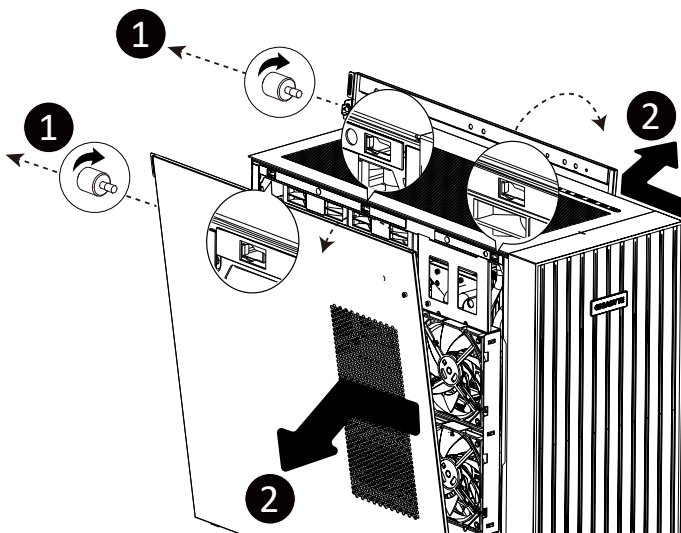
- Make sure the system is not turned on or connected to AC power.

Removal Steps

1. Remove the side cover screws: Unscrew the fasteners securing the side panel to the rear of the chassis.
2. Remove the side cover: Slide the side panel toward the rear of the system and then pull it away from the chassis in the direction indicated by the arrow.
3. Remove the top cover: Slide the top panel toward the rear and lift it upward to remove it from the chassis .

Removal Steps

1. Reinstall the top cover: Align the top panel with the top of the chassis and slide it forward until it is securely seated.
2. Reinstall the side cover: Place the side panel against the chassis, slide it forward until it flushes with the front, and then secure it using the screws.



4-2 Installing the GPU and Fan Wall Assembly



- Voltages can be present within the system whenever an AC power source is connected. This voltage is present even when the main power switch is in the off position. Ensure that the system is powered-down and all power sources have been disconnected from the system prior to installing a GPU.
- Failure to observe these warnings could result in personal injury or damage to equipment.

This system supports two different GPU configurations. The installation sequence for the GPUs and the fan wall assembly depends on the GPU type.

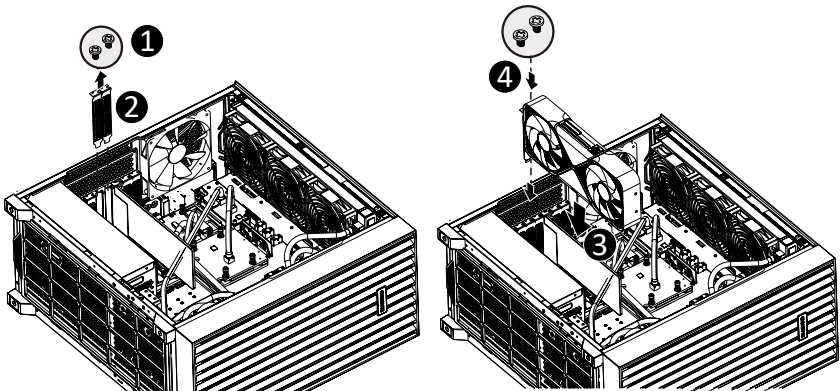
GPU Identification and Sequence Overview:

GPU Type	Model Name	Dimension	Installation Sequence
Type 1	NVIDIA RTX PRO™ 6000 Blackwell Workstation Edition	305.4mm (L)	GPU → Fan Wall
Type 2	NVIDIA RTX PRO™ 6000 Blackwell Max-Q	268mm (L)	Fan Wall → GPU

4-2-1 Type 1 GPU (NVIDIA RTX PRO™ 6000 Blackwell Workstation Edition)

Follow these instructions to install the GPU:

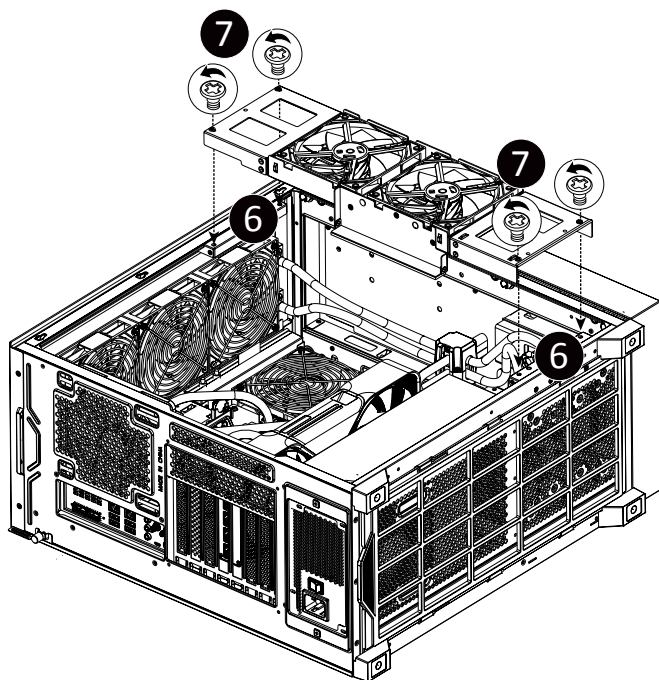
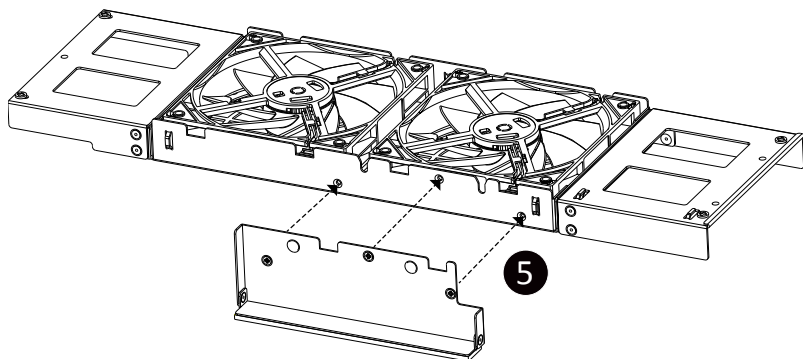
1. Remove the screws: Use a screwdriver to remove the screws securing the expansion slot covers to the chassis .
2. Remove the slot covers: Lift the expansion slot covers out of the PCIe bracket to clear the path for the card.
3. Install the card: Align the PCIe card with the appropriate slot on the motherboard and push it down firmly in the direction of the arrow until the card sits fully in the PCIe connector.
4. Secure the card: Reinstall the screws to secure the PCIe card bracket to the chassis, ensuring the card is stable.



Follow these instructions to install Fan Wall Assembly:

5. Attach the card retainers to the side of the fan wall assembly. Align the fan wall assembly with the chassis guides.
6. Lower the fan wall into the chassis. Ensure the retainers press firmly against the top edge of the GPUs for stabilization.
7. Secure the fan wall with the mounting screws.

To remove the GPU, follow the steps above in reverse order.



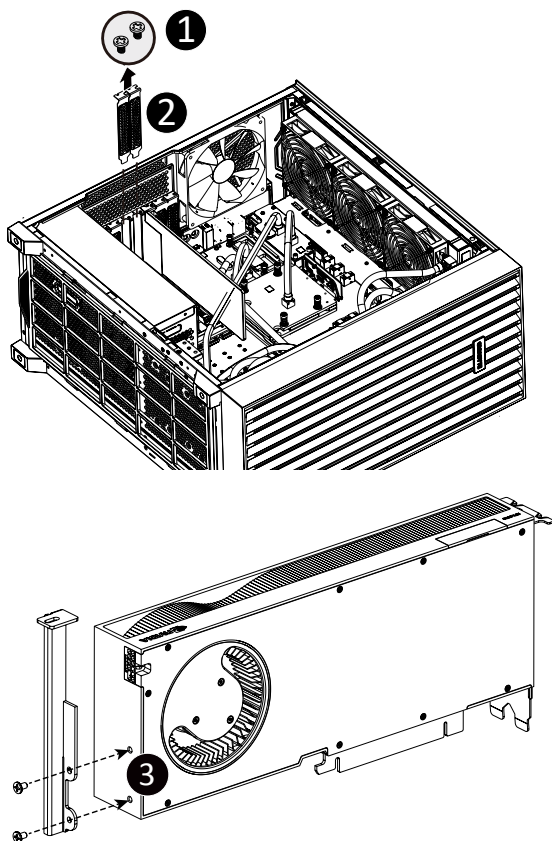
4-2-2 Type 2 GPU (NVIDIA RTX PRO™ 6000 Blackwell Max-Q)



- Due to the shorter length (268mm), TYPE 2 cards must be installed AFTER the fan wall assembly is already secured in the chassis.

Follow these instructions to install the GPU:

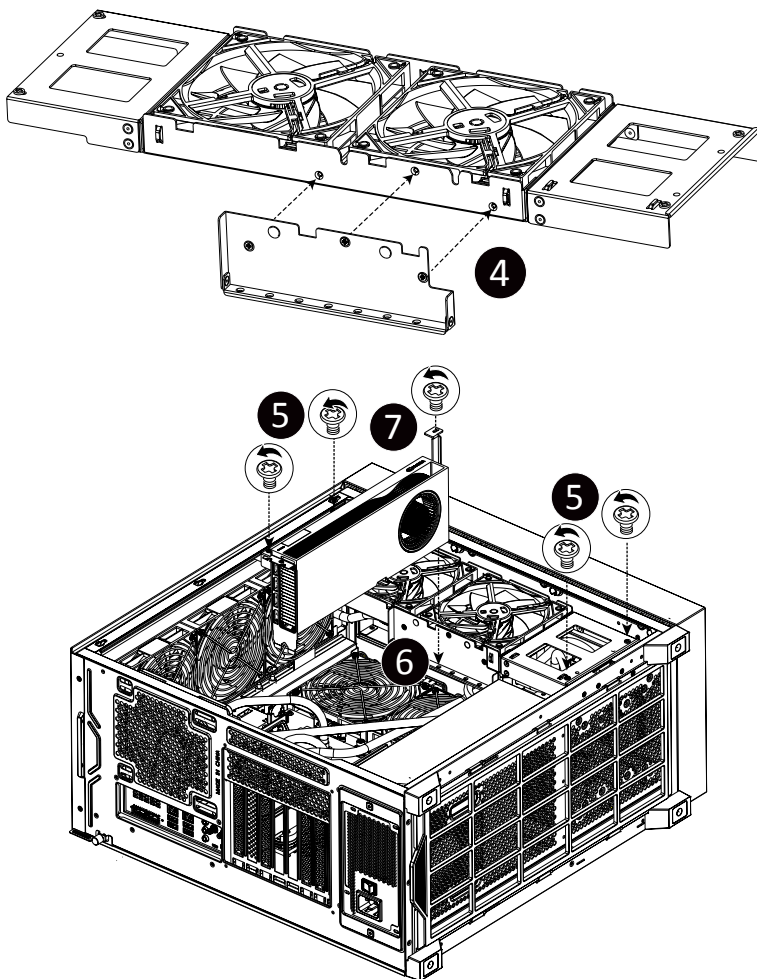
1. Remove the screws: Use a screwdriver to remove the screws securing the expansion slot covers to the chassis .
2. Remove the slot covers: Lift the expansion slot covers out of the PCIe bracket to clear the path for the card.
3. Attach the Extension Brackets to each TYPE 2 GPU to adapt them to the system's length and height requirements. Proceed to step 4 to install the Fan Wall assembly before inserting the GPU.



Follow these instructions to install Fan Wall Assembly:

4. Attach the card retainers to the side of the fan wall assembly.
5. Install the fan wall assembly into the chassis and tighten the mounting screws.
6. Align the PCIe card with the appropriate slot on the motherboard and push it down firmly in the direction of the arrow until the card sits fully in the PCIe connector.
7. Reinstall the screws to secure the PCIe card bracket to the chassis, ensuring the card is stable.

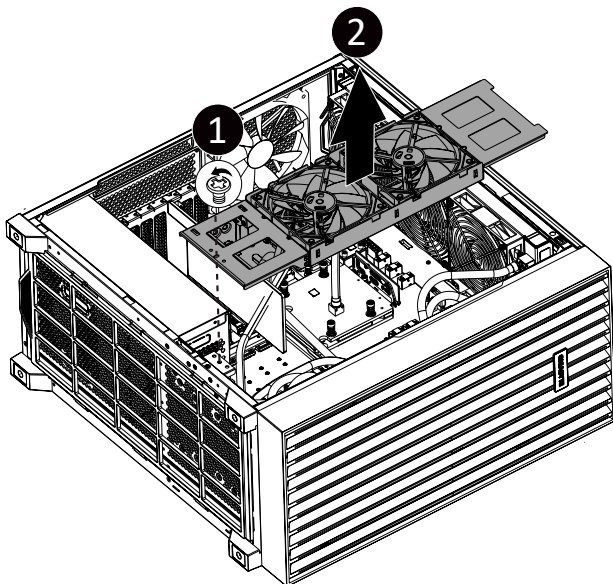
To remove the PCIe card, follow the steps above in reverse order.



4-3 Removing the Fan Wall

Follow these instructions to manage the fan wall assembly as shown in the illustration:

1. Loosen the screw: Use a screwdriver to remove the screw securing the fan wall bracket to the chassis .
2. Lift the fan wall: Pull the fan wall assembly upward and out of the system in the direction of the arrow.

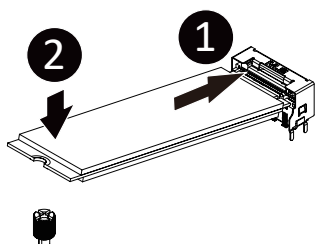


4-4 Installing M.2 Module

Follow the steps below to install an optional M.2 SSD module on your motherboard.

Step1. Insert the M.2 SSD module into the slot.

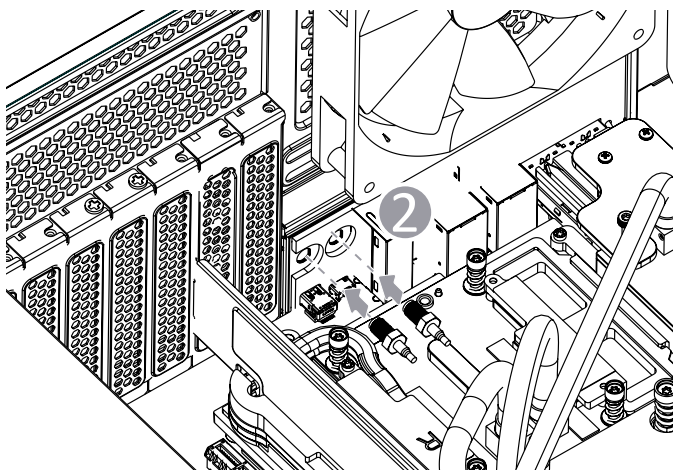
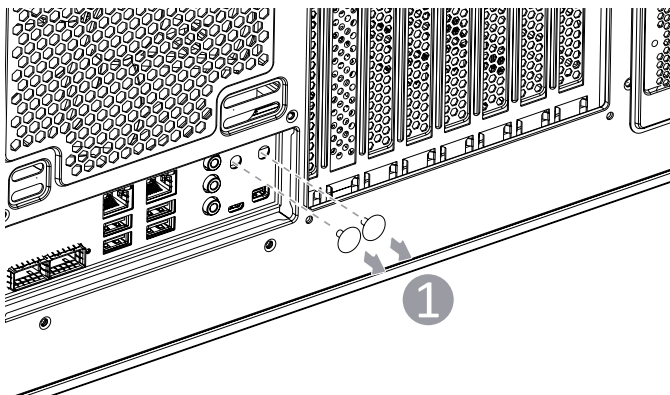
Step2. Secure it with the screw, tightening as necessary to fasten the M.2 SSD module in place.

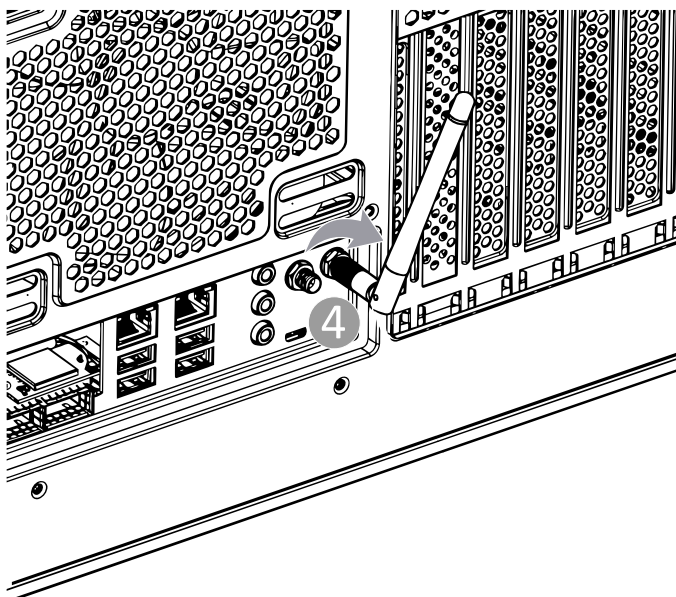
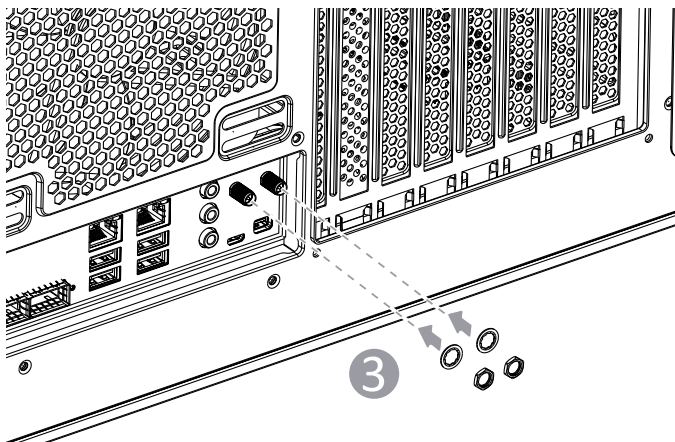


4-5 Installing WiFi Module

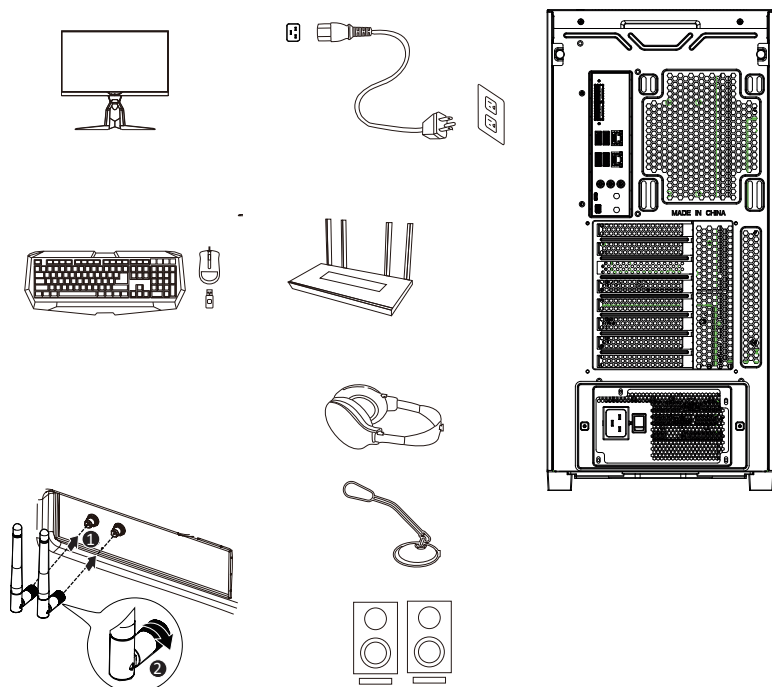
Follow these instructions to install WiFi Module into the system:

1. Remove the antenna punch-out covers from the rear I/O shield.
2. Carefully align and insert the wireless module into the designated slot on the rear chassis, and connect the internal pigtail cables to the module.
3. Secure the module to the chassis from the outside using the provided washers and nuts.
4. Screw the external antennas onto the internal connectors. Note the arrow indicating to tighten.





4-6 Peripheral Devices Connection



① Antenna Connectors

Align the two antenna cables with the golden threaded RF connectors on the rear I/O panel, and screw them on clockwise until securely fastened.

② Angle Adjustment

Rotate or tilt the antennas to your preferred angle (as indicated by the arrow) to optimize wireless signal reception.

Chapter 5 BIOS Setup

BIOS (Basic Input and Output System) records hardware parameters of the system in the EFI on the motherboard. Its major functions include conducting the Power-On Self-Test (POST) during system startup, saving system parameters, loading the operating system etc. The BIOS includes a BIOS Setup program that allows the user to modify basic system configuration settings or to activate certain system features. When the power is turned off, the battery on the motherboard supplies the necessary power to the CMOS to keep the configuration values in the CMOS.

To access the BIOS Setup program, press the key during the POST when the power is turned on.



- BIOS flashing is potentially risky, if you do not encounter any problems when using the current BIOS version, it is recommended that you don't flash the BIOS. To flash the BIOS, do it with caution. Inadequate BIOS flashing may result in system malfunction.
- It is recommended that you not alter the default settings (unless you need to) to prevent system instability or other unexpected results. Inadequately altering the settings may result in system's failure to boot. If this occurs, try to clear the CMOS values and reset the board to default values. (Refer to the [Exit](#) section in this chapter for how to restore the BIOS default values.)
- **BIOS setting changes require a system reboot to take effect.**

BIOS Setup Program Function Keys

<<-><->>	Move the selection bar to select the screen
<↑><↓>	Move the selection bar to select an item
<+>	Increase the numeric value or make changes
<->	Decrease the numeric value or make changes
<Enter>	Execute command or enter the submenu
<Esc>	Main Menu: Exit the BIOS Setup program Submenus: Exit current submenu
<F1>	Show descriptions of general help
<F3>	Search setup items.
<F9>	Restore the previous BIOS settings for the current submenus
<F10>	Save all the changes and exit the BIOS Setup program

■ **Main**

This setup page includes all the items of the standard compatible BIOS.

■ **Advanced**

This setup page includes all the items of Insyde BIOS special enhanced features.

(ex: Auto detect fan and temperature status, automatically configure hard disk parameters.)

■ **Security**

Change, set, or disable supervisor and user password. Configuration supervisor password allows you to restrict access to the system and BIOS Setup.

A supervisor password allows you to make changes in BIOS Setup.

A user password only allows you to view the BIOS settings but not to make changes.

■ **Boot**

This setup page provides items for configuration of the boot sequence.

■ **Exit**

Save all the changes made in the BIOS Setup program to the CMOS and exit BIOS Setup.

(Pressing <F10> can also carry out this task.)

Abandon all changes and the previous settings remain in effect. Pressing <Y> to the confirmation message will exit BIOS Setup. (Pressing <Esc> can also carry out this task.)

5-1 The Main Menu

Once you enter the BIOS Setup program, the Main Menu (as shown below) appears on the screen. Use arrow keys to move among the items and press <Enter> to accept or enter other sub-menu.

Main Menu Help

The on-screen description of a highlighted setup option is displayed on the bottom line of the Main Menu.

Submenu Help

While in a submenu, press <F1> to display a help screen (General Help) of function keys available for the menu. Press <Esc> to exit the help screen. Help for each item is in the Item Help block on the right side of the submenu.



- When the system is not stable as usual, select the **Restore Defaults** item to set your system to its defaults.
- The BIOS Setup menus described in this chapter are for reference only and may differ by BIOS version.

InsydeH20 Setup Utility				Rev. 5.0
Main Advanced Security Boot Exit				
BIOS Information			Select the current default language used by the InsydeH20.	
Project Name	DGX8B300			
Project Version	D13			
Build Date	04/13/2026			
Build Time	18:02:06			
BMC Information				
BMC Firmware Version	01.07.5421			
Processor Information				
CPU Brand String	Grace A02P			
Max CPU Speed	3402 Mhz			
CPU Signature	3680241			
Processor Core	72			
Platform Information				
NVIDIA Version	02.06.01			
Memory Information				
Total Memory	506880 MB			
Memory Frequency	6400 Mhz			
Platform Configuration				
Product Name:	DGX Station GB300			
SKU Number:	670-54094-0001-QS1			
Language	<English>			
Onboard LAN Information				
LAN1 MAC Address	3C-6D-66-F9-4F-A0			
System Time			[06:50:56]	
System Date			[04/27/2026]	
F1 Help	T/1 Select Item	F5/F6 Change Values	F9 Setup Defaults	
Esc Exit	+/- Select Item	Enter Select > Submenu	F10 Save and Exit.	

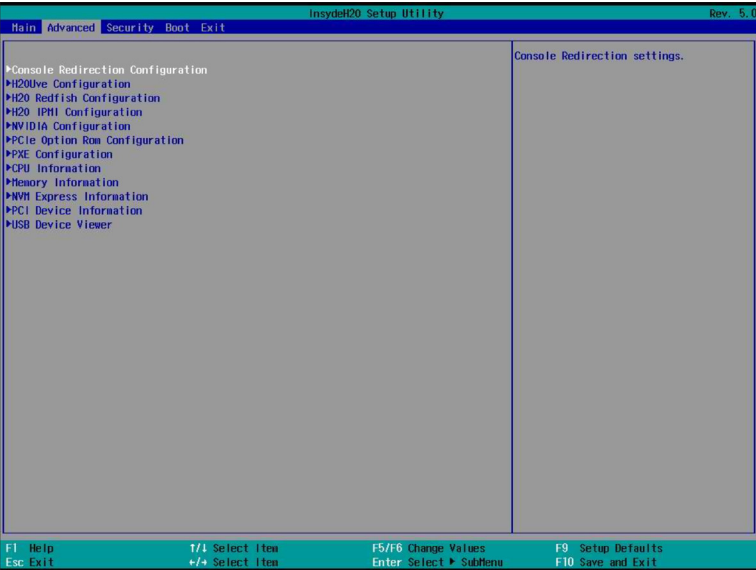
Parameter	Description
BIOS Information	
BIOS Vendor/BIOS Version	Displays the BIOS related information.
Build Date and Time	Displays the date and time when the BIOS setup utility was created.
Onboard LAN Information	
LAN1/LAN2 MAC Address ^(Note)	Displays LAN MAC address information.
System Memory Speed	Displays the frequency information of the installed memory.
Total Memory	Displays the total memory size of the installed memory.
Language	Configure the preference language.
System Date	Sets the date following the weekday-month-day-year format.
System Time	Sets the system time following the hour-minute-second format.



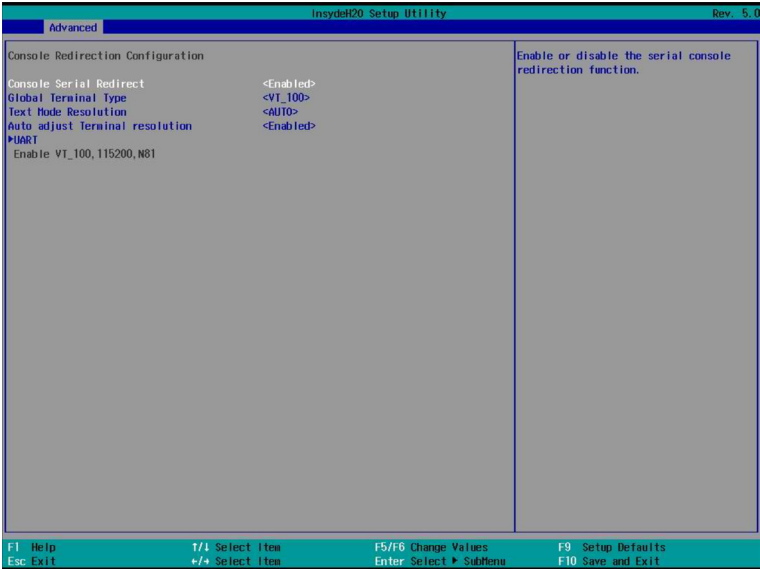
(Note) The number of LAN ports listed will depend on the motherboard / system model.

5-2 Advanced Menu

The Advanced Menu displays submenu options for configuring the function of various hardware components. Select a submenu item, then press <Enter> to access the related submenu screen.

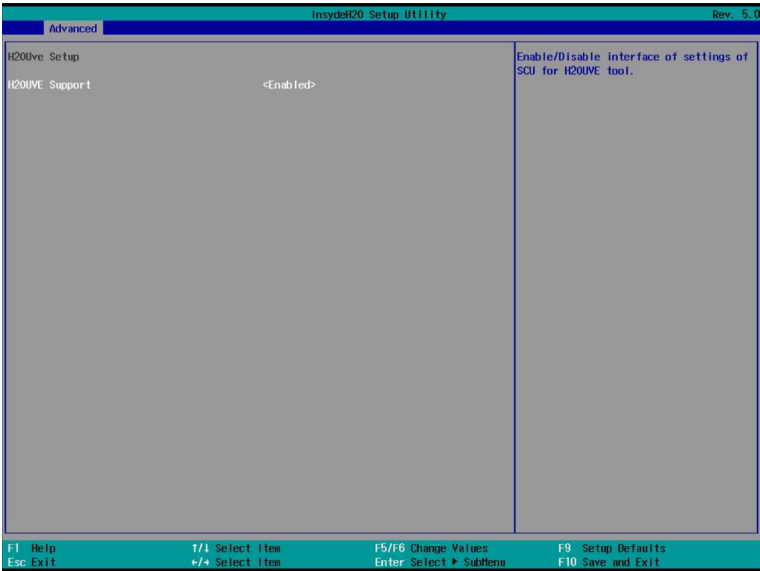


5-2-1 Console Redirection Configuration



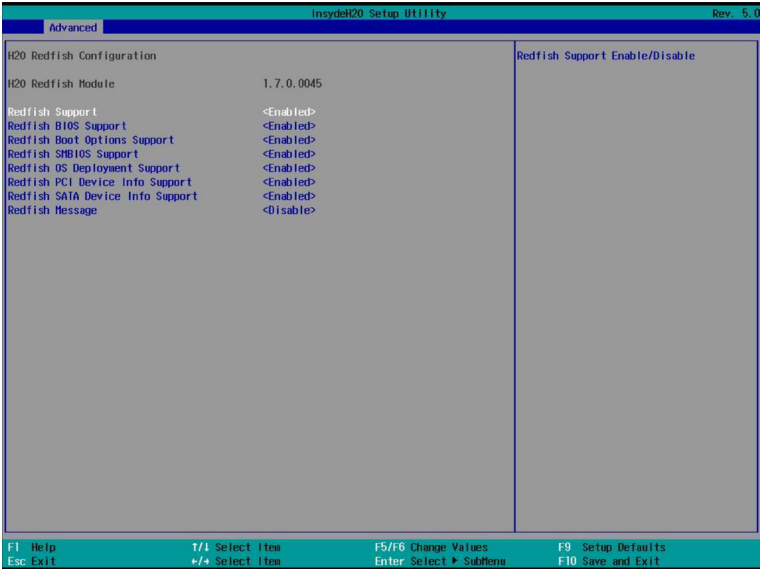
Parameter	Description
Console Redirection Configuration	
Console Serial Redirect	Enable/Disable the Serial Port (COM). When set to Enabled allows you to configure the Serial port 1 settings. When set to Disabled, displays no configuration for the serial port. Options available: Enabled , Disabled.
Global Terminal Type	Selects a terminal type to be used for console redirection. Options available: VT_100+ , VT_100, VT-UTF8, PC_ANSI, LOG_TERM, TTY_TERM, LINUX_TERM, XTERM_R6, VT400, SCO_TERM.
Text Mode Resolution	Console Redirection Text Mode Resolution. Options available: AUTO , Force 80x25, Force 80x24 (DEL FIRST ROW), Force 80x24 (DEL LAST ROW), Limit 128x40
Auto adjust Terminal resolution	Through send extra ESC sequence code to adjust terminal resolution to fit hot screen. Options available: Enabled , Disabled.
UART	Press [Enter] for advanced items. • Uart PortEnable- - Options available: Enabled, Disabled. • UseGlobalSetting - Options available: Enabled, Disabled.

5-2-2 H2OUve Configuration



Parameter	Description
H2OUVE Support	Enable/Disable interface of settings of SCU for H2OUVE tool. Options available: Enabled , Disable.

5-2-3 H20 Redfish Configuration



Parameter	Description
Redfish Configuration	
Redfish Support	Options available: Enable , Disable.
Redfish BIOS Support	Options available: Enable , Disable.
Redfish Boot Option Support	Options available: Enable , Disable.
Redfish SMBIOS Support	Options available: Enable , Disable.
Redfish OS Deployment Support	Options available: Enable , Disable.
Redfish PCI Device Info Support	Options available: Enable , Disable.
Redfish SATA Device Support	Options available: Enable , Disable.
Redfish Message	Options available: Detail, Enable, Disable .

5-2-4 H20 IPMI Configuration

Advanced

InsydeH20 Setup Utility

Rev. 5.0

IPMI Support		<Enabled>	Enable/Disable IPMI Support. Note: If changing to enable, BMC detailed information only valid after rebooting.
DXE Interface			
Interface Type	:	SSIF	
Interface Address	:	0x0020	
Interface Status	:	OK	
BMC Firmware Version	:	01.08	
IPMI Specification Version:	:	2.0	
BMC MAC Address	:	4C:BB:47:25:BA:EB	
Boot Option Support		<Enabled>	
Set BIOS version to BMC		<Enabled>	
BMC state after G3		<Leave power state unchanged>	
▶BMC Configuration			
▶View FRU Information			
Clear IDMC SEL			

F1 Help

Esc Exit

T/↓ Select Item

←/→ Select Item

F5/F6 Change Values

Enter Select * SubMenu

F9 Setup Defaults

F10 Save and Exit

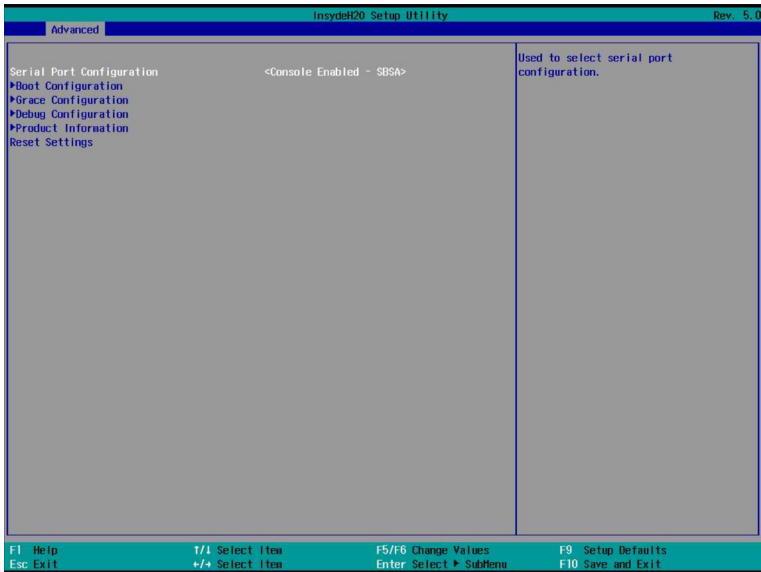
Parameter	Description
Boot Option Support	Enable/Disable IPMI boot options. function. This option controls all configurations of System Boot Option Parameter 5. Options available: Enabled , Disabled.
Set BIOS version to BMC	Enable/disable set BIOS version to BMC. If the option is enabled, BIOS will send BIOS version string to BMC during POST. Options available: Disabled, Enabled .
BMC state after G3	Select S0/S5 for ACPI state after a G3. Options available: S0, S5, Leave power state unchanged .
BMC Configuration	Press [Enter] to configure advanced items. ◆ Watchdog Timer Support ^(Note1) – Options available: Disabled, Enabled. ◆ Enable Watchdog in OS Load ^(Note2) – Options available: Disabled, Enabled. ◆ Power Cycle Time Support ^(Note3) – Options available: Disabled, Enabled. ◆ Power Button – Options available: Enabled, Disabled. ◆ Reset Button – Options available: Enabled, Disabled. ◆ NMI Button – Options available: Enabled, Disabled.
BMC Configuration (cont.)	◆ User Configuration – Press [Enter] to configure advanced items. ◆ CHA LAN Channel Number – Configure CHA LAN Channel Number ◆ Allow Non-setup modify IPv4 Parameter – Options available: Disabled, Enabled. ◆ CHA IPv4 Mode – Selects to configure LAN channel parameters statically or dynamically (DHCP). Do nothing option will not modify any BMC network parameters during BIOS phase. – Options available: Disabled, Enabled. ◆ CHA IPv4 Source – Options available: DHCP, Static. ◆ CHA IPv6 Mode – Options available: Disabled, Enabled. ◆ CHA Enable IPv6 Static IP Address – Options available: Disabled, Enabled. ◆ CHA IPv6 Router Address Control – Options available: Enable dynamic router address, Enable static router address, All Enabled, All Disabled.

Parameter	Description
View FRU Information	Press [Enter] to view FRU information. This page displays for basic system ID information, as well as System product information. Items on this window are non-configurable.
Clear iBMC SEL	Press [Enter] to for advanced configurations.



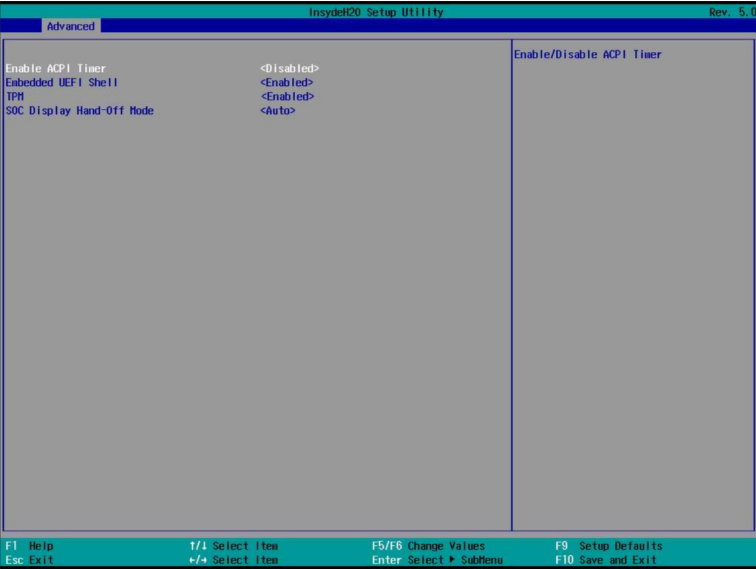
- (Note1) This related item appears when **Watchdog Timer Support** is set to **Enabled**.
 (Note2) This related item appears when **Enable Watchdog in OS Load** is set to **Enabled**.
 (Note3) This related item appears when **Power Cycle Time Support** is set to **Enabled**.

5-2-5 NVIDIA Configuration



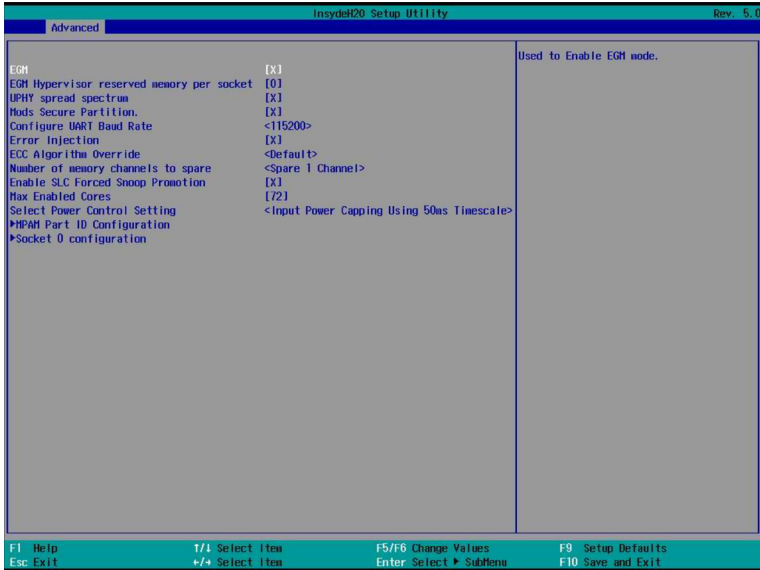
Parameter	Description
NVIDIA Configuration	
Boot Configuration	Press [Enter] to configure advanced boot items.
Grace Configuration	Press [Enter] to configure Grace settings.
Debug Configuration	Press [Enter] to configure debug settings.
Product Information	Press [Enter] to view product information details.
Reset Setting	Press [Enter] to reset all BIOS settings to factory defaults.

5-2-5-1 Boot Configuration



Parameter	Description
Boot Configuration	Press [Enter] to configure advanced items. • Enable/Disable ACPI Timer – Options available: Disabled, Enabled. • Enable/Disable Embedded UEFI Shell – Options available: Disabled, Enabled. • Enable/Disable TPM – Options available: Disabled, Enabled. • Enable/Disable SOC Display Hand-Off Mode – Options available: Never, Always, Auto.

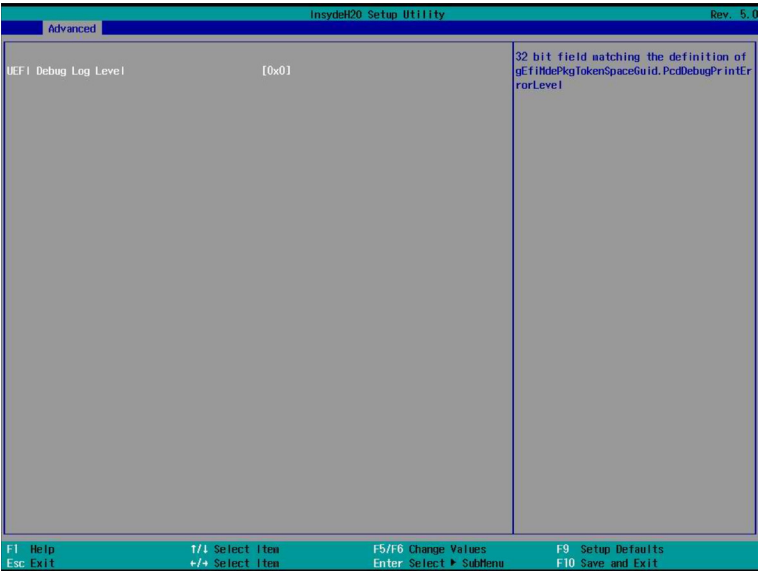
5-2-5-2 Grace Configuration



Parameter	Description
EGM	- Enable or disable EGM mode. - Options: Disabled / [Enabled].
EGM Hypervisor reserved memory per socket	- Set the amount of memory reserved for the Hypervisor per socket. - Current: [0].
UPHY spread spectrum	- Enable or disable UPHY spread spectrum. - Options: Disabled / [Enabled].
Mods Secure Partition	- Enable or disable Mods Secure Partition. - Options: Disabled / [Enabled].
Configure UART Baud Rate	- Select UART baud rate. - Options: 115200 / 57600 / 38400 / 19200 / 9600. Current: [115200].
Error Injection	- Enable or disable Error Injection. - Options: Disabled / [Enabled].
ECC Algorithm Override	- Select the ECC algorithm. - Options: [Default] / Hsiao / Reed-Solomon.
Number of memory channels to spare	- Select the number of memory channels for sparing. - Options: Spare 0 Channels / [Spare 1 Channel].

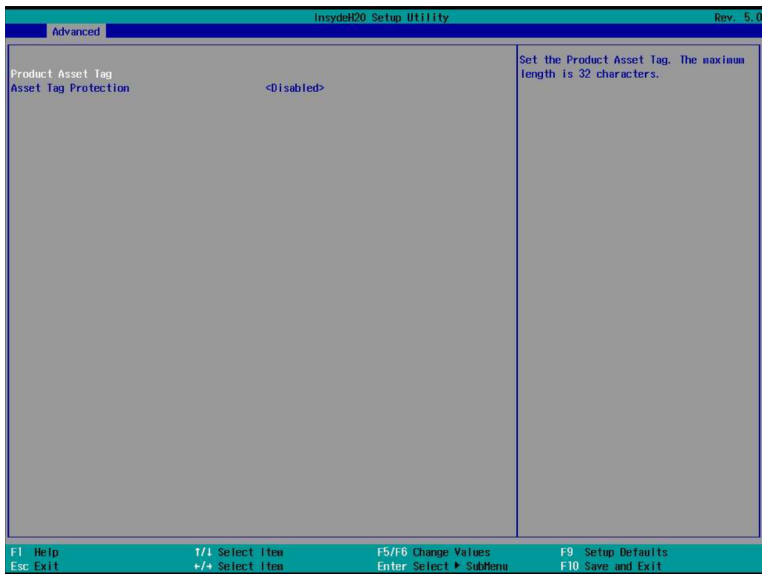
Parameter	Description
Enable SLC Forced Snoop Promotion	♦ Enable or disable SLC Forced Snoop Promotion. – Options: Disabled / [Enabled].
Max Enabled Cores	♦ Set the maximum number of enabled CPU cores. – Current: [72].
Select Power Control Setting	♦ Select power capping timescale. – Options: [Input Power Capping Using 50ms Timescale] / Input Power Capping Using 1s Timescale / Input Power Capping Using 5s Timescale.
MPAM Part ID Configuration	Press [Enter] to configure MPAM Part ID settings.
Socket 0 configuration	Press [Enter] to configure Socket 0 specific settings.

5-2-5-3 Debug Configuration



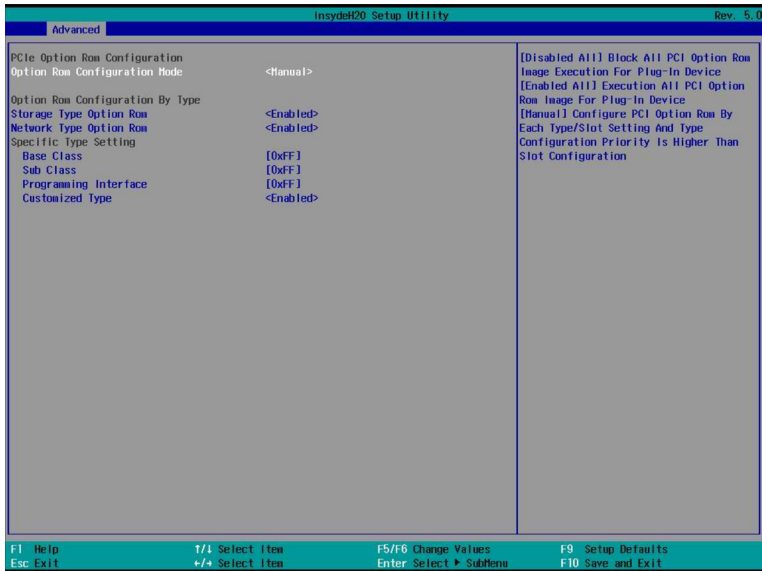
Parameter	Description
UEFI Debug Log Level	Sets the 32-bit field matching the definition of gEfiMdePkgTokenSpaceGuid.PcdDebugPrintErrorLevel. Value: [0x0] .

5-2-5-4 Product Information



Parameter	Description
Product Asset Tag	Set the Product Asset Tag. The maximum length is 32 characters.
Asset Tag Protection	- Enable or disable Asset Tag Protection. - Options: Enabled / [Disabled].

5-2-6 PCIe Option Rom Configuration

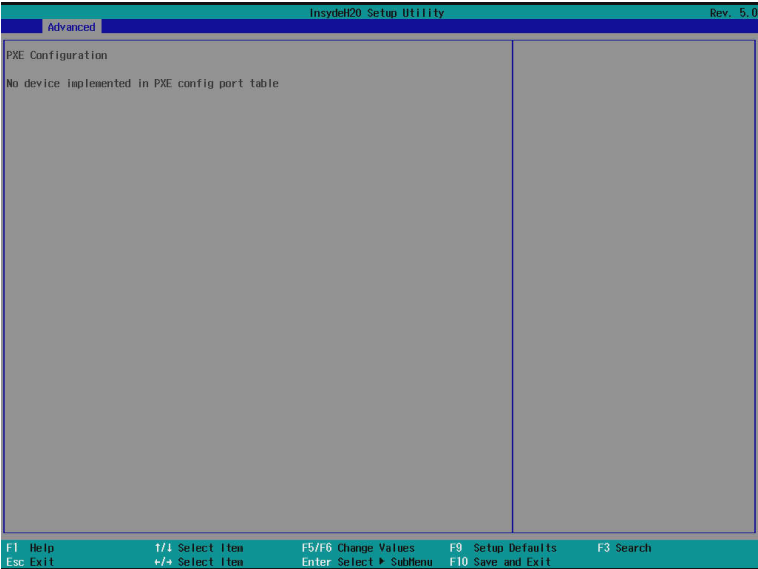


Parameter	Description
Option Rom Configuration Mode	- Configures PCI Option Rom execution mode. - Options: Disabled All / Enabled All / [Manual].^{Note}
Storage Type Option Rom	- Enable or disable storage type Option Rom. - Options: Disabled / [Enabled].
Network Type Option Rom	- Enable or disable network type Option Rom. - Options: Disabled / [Enabled].
Base Class	Specifies the base class code. Value: [0xFF].
Sub Class	Specifies the sub-class code. Value: [0xFF].
Programming Interface	Specifies the programming interface code. Value: [0xFF].
Customized Type	- Enable or disable customized type. - Options: Disabled / [Enabled].



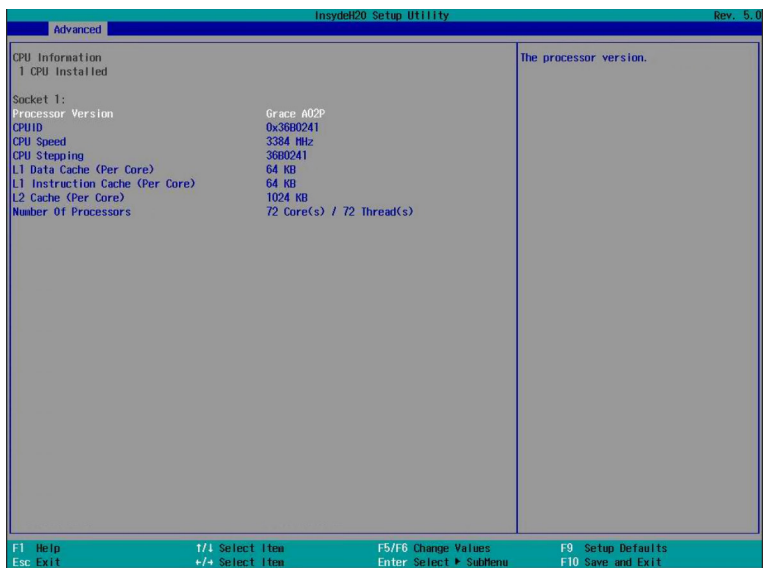
(Note) Configuration priority is higher than Slot Configuration

5-2-7 PXE Configuration



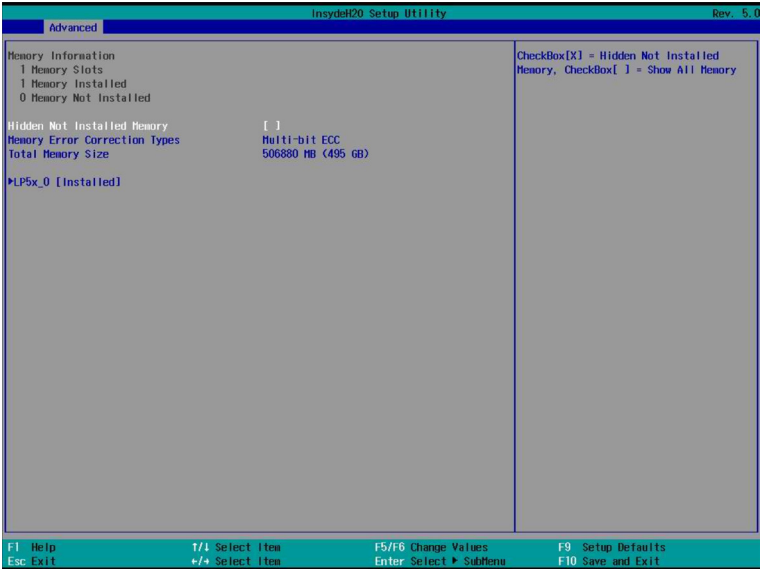
Parameter	Description
PXE Configuration	Displays the PXE devices connected to the system.

5-2-8 CPU Information



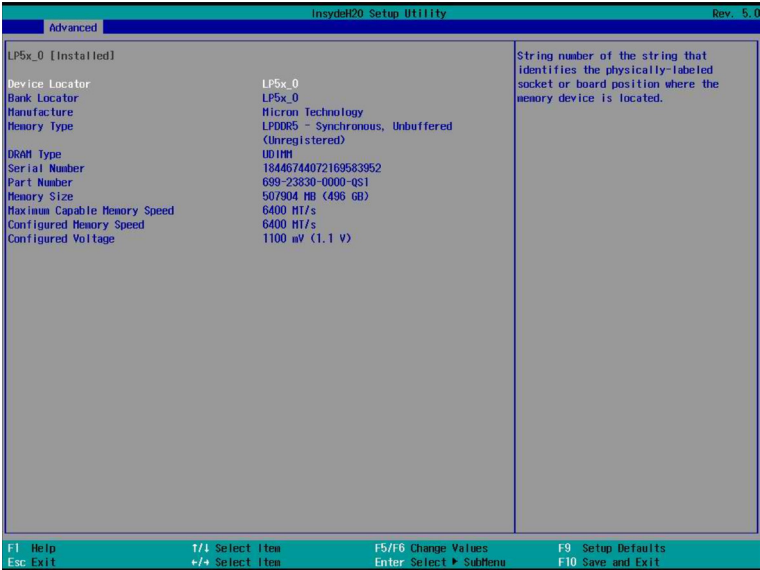
Parameter	Description
CPU Information	Displays the installed processor.
Socket 1	
Processor Version	Displays the technical specifications for the installed processor(s).
CPUID	
CPU Speed	
CPU Stepping	
L1 Data Cache (Per Core)	
L1 Instruction Cache Per Core	
L2 Cache (Per Core)	
Number of Processors	

5-2-9 Memory Information



Parameter	Description
Memory Information	Displays current memory status (Memory Slots: 1, Memory Installed: 1, Memory Not Installed: 0).
Hidden Not Installed Memory	Press [Enter] to hide the empty memory slot.
Memory Error Correction Types	Displays the memory error correction types information.
Total Memory Size	Displays the total memory size of the installed memory.
LP5x_0	Press [Enter] to view detailed information for memory slot LP5x_0.

5-2-9-1 LP5x



Parameter	Description
Device Locator	This page is for information purposes only. All fields are read-only and cannot be modified. The Device Locator and Bank Locator strings identify the physical board position of the memory device.
Bank Locator	
Manufacture	
Memory Type	
DRAM Type	
Serial Number	
Part Number	
Memory Size	
Maximum Capable Memory Speed	
Configured Memory Speed	
Configured Voltage	

5-2-10 NVM Express Information



Parameter	Description
XPG MARS 980 BLADE	Press [Enter] to view device-specific settings (e.g., SMART data, drive information) for this NVMe storage device.
EFI Device Path	(Information) Displays the UEFI device path for the currently selected storage drive: VenHw(1E5A432C-0466-4D31-B009-D4D9239271D3)/MemoryMapped(0xB, 0x140A0000, 0x140A1FFF)/PciRoot(0x1)/Pci(0x0, 0x0)/Pci(0x0, 0x0)/Pci(0x3, 0x0)/Pci(0x0, 0x0)/Pci(0x0, 0x0)/Pci(0x0, 0x0)

5-2-10-1 Controller, Namespace, SMART, Health Information

InsydeH20 Setup Utility			Rev. 5.0
Advanced			
Controller Information		EFI Device Path	
EFI Device Path		VenHw(1E5A432C-0466-4D31-B009-D4D9239271D3)/MemoryMapped(0x0, 0x140A0000, 0x140A1FFF)/ PciRoot(0x1)/Pci(0x0, 0x0)/Pci(0x0, 0x0)/Pci (0x3, 0x0)/Pci(0x0, 0x0)/Pci(0x0, 0x0)/Pci(0x 0, 0x0)	
PCI Location		0001:09:00.0	
Total Namespaces		1	
Serial Number		2F3429A6771U	
Model Number		XPG MARS 980 BLADE	
Firmware Revision		Y0508B	
IEEE OUI		70-7C-18	
Namespace Information			
Namespace ID		1	
IEEE EUI-64		70-7C-18-1C-34-00-49-AD	
Storage Capacity		2.04 TB	
SMART / Health Information			
Critical Warning		No warnings	
Composite Temperature		37 °C (99 °F)	
Available Spare		100%	
Available Spare Threshold		10%	
Percentage Used		0%	
Endurance Group Critical Warning		No warnings	
Data Read		253 MB	
Data Written		0 MB	
Host Read Commands		5,788	
Host Write Commands		1	
Controller Busy Time (Minutes)		0	
Power Cycles		14	
Power On Hours		174	
Unsafe Shutdowns		8	
Media and Data Integrity Errors		0	
F1 Help	F5/F6 Change Values	F9 Setup Defaults	
Esc: Exit	Enter: Select ► SubMenu	F10 Save and Exit	
T/1 Select Item		+/= Select Item	

InsydeH20 Setup Utility			Rev. 5.0
Advanced			
Controller Information		EFI Device Path	
EFI Device Path		VenHw(1E5A432C-0466-4D31-B009-D4D9239271D3)/MemoryMapped(0x0, 0x140A0000, 0x140A1FFF)/ PciRoot(0x1)/Pci(0x0, 0x0)/Pci(0x0, 0x0)/Pci (0x3, 0x0)/Pci(0x0, 0x0)/Pci(0x4, 0x0)/Pci(0x 0, 0x0)	
PCI Location		0001:0A:00.0	
Total Namespaces		1	
Serial Number		2F3329AH28HE	
Model Number		XPG MARS 980 BLADE	
Firmware Revision		Y0508B	
IEEE OUI		70-7C-18	
Namespace Information			
Namespace ID		1	
IEEE EUI-64		70-7C-18-1C-33-00-36-52	
Storage Capacity		2.04 TB	
SMART / Health Information			
Critical Warning		No warnings	
Composite Temperature		35 °C (95 °F)	
Available Spare		100%	
Available Spare Threshold		10%	
Percentage Used		0%	
Endurance Group Critical Warning		No warnings	
Data Read		253 MB	
Data Written		0 MB	
Host Read Commands		5,771	
Host Write Commands		1	
Controller Busy Time (Minutes)		0	
Power Cycles		14	
Power On Hours		174	
Unsafe Shutdowns		8	
Media and Data Integrity Errors		0	
F1 Help	F5/F6 Change Values	F9 Setup Defaults	
Esc: Exit	Enter: Select ► SubMenu	F10 Save and Exit	
T/1 Select Item		+/= Select Item	

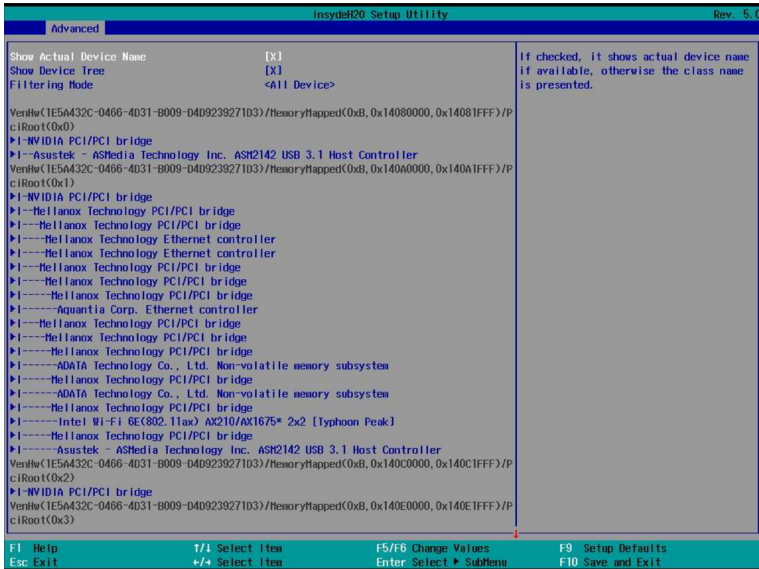
InsydeH2O Setup Utility				Rev. 5.0
Advanced				
Controller Information		EFI Device Path		
EFI Device Path	VenHw(IE5A432C-0466-4031-0009-p4D623927103 >MemoryMapped(0x0, 0x14140000, 0x14141FFF)/ PciRoot(0x6)/Pci(0x0, 0x0)/Pci(0x0, 0x0)			
PCI Location	0006:01:00.0			
Total Namespaces	1			
Serial Number	2P332L1B01LL			
Model Number	XPG MARS 980 BLADE			
Firmware Revision	Y0508B			
IEEE OUI	70-7C-18			
Namespace Information				
Namespace ID	1			
IEEE EUI-64	70-7C-18-1C-33-00-37-67			
Storage Capacity	2.04 TB			
SMART / Health Information				
Critical Warning	No warnings			
Composite Temperature	34 °C (93 °F)			
Available Spare	100%			
Available Spare Threshold	10%			
Percentage Used	0%			
Endurance Group Critical Warning	No warnings			
Data Read	4,146,035 MB			
Data Written	136,578 MB			
Host Read Commands	12,722,857			
Host Write Commands	944,556			
Controller Busy Time (Minutes)	21			
Power Cycles	14			
Power On Hours	175			
Unsafe Shutdowns	8			
Media and Data Integrity Errors	0			
Number of Error Information Log Entries	0			
Warning Composite Temperature Time	0			
F1 Help	F7/F Select Item	F5/F6 Change Values	F9 Setup Defaults	
Esc Exit	+/- Select Item	Enter Select ► SubMenu	F10 Save and Exit	

InsydeH2O Setup Utility				Rev. 5.0
Advanced				
Controller Information			EFI Device Path	
EFI Device Path		VenHw(IE5A432C-0466-4031-0009-p4D923927103 >MemoryHapped(0x0, 0x14160000, 0x14161FFF)/ PciRoot(0x7)/Pci(0x0, 0x0)/Pci(0x0, 0x0)		
PCI Location		0007:01:00.0		
Total Namespaces		1		
Serial Number		2P332LAB26U9		
Model Number		XPG MARS 980 BLADE		
Firmware Revision		Y0508B		
IEEE OUI		70-7C-18		
Namespace Information				
Namespace ID		1		
IEEE EUI-64		70-7C-18-1C-33-00-38-39		
Storage Capacity		2.04 TB		
SMART / Health Information				
Critical Warning		No warnings		
Composite Temperature		35 °C (95 °F)		
Available Spare		100%		
Available Spare Threshold		10%		
Percentage Used		0%		
Endurance Group Critical Warning		No warnings		
Data Read		6,102 MB		
Data Written		4,256,324 MB		
Host Read Commands		118,945		
Host Write Commands		12,979,110		
Controller Busy Time (Minutes)		93		
Power Cycles		14		
Power On Hours		175		
Unsafe Shutdowns		9		
Media and Data Integrity Errors		0		
Number of Error Information Log Entries		0		
Warning Composite Temperature Time		0		
F1 Help	F7/F Select Item	F5/F6 Change Values	F9 Setup Defaults	
Esc Exit	+/- Select Item	Enter Select ► SubMenu	F10 Save and Exit.	

Parameter	Description
Controller Information	
EFI Device Path	Displays the UEFI device path for the storage device.
PCI Location	Displays the physical PCI bus/device/function location.
Total Namespaces	Displays the number of namespaces configured on the drive.
Serial Number	Unique factory-assigned serial number of the drive.
Model Number	The model designation of the storage device.
Firmware Revision	The current firmware version installed on the device.
IEEE OUI	The Organizationally Unique Identifier for the device.
Namespace Information	
Namespace ID	Unique identification number for the namespace.
IEEE EUI-64	The 64-bit Extended Unique Identifier.
Storage Capacity	Total usable storage capacity of the namespace.
SMART / Health Information	
Critical Warning	Displays any critical device status warnings.
Composite Temperature	Current operating temperature of the device.
Available Spare	Remaining spare capacity percentage.
Available Spare Threshold	Threshold level for spare capacity.
Percentage Used	Percentage of total drive endurance consumed.
Endurance Group Critical Warning	Warning status for drive endurance.
Data Read	Total data read from the device.
Data Written	Total data written to the device.
Host Read Commands	Total read commands received from the host.
Host Write Commands	Total write commands received from the host.
Controller Busy Time (Minutes)	Total time the controller has been in an active busy state.
Power Cycles	Total number of device power cycles.
Power On Hours	Cumulative hours the device has been powered on.
Unsafe Shutdowns	Total count of unexpected power losses.

Parameter	Description
Media and Data Integrity Errors	Count of detected media or data integrity errors.
Number of Error Information Log Entries	Total count of error logs stored in the device.
Warning Composite Temperature Time	Total time the device has exceeded temperature warnings.

5-2-11 PCI Device Information



Parameter	Description
Show Actual Device Name	Enable or disable displaying the actual device name. If checked, displays the vendor and model name; otherwise, the device class name is presented. Default: [X]
Show Device Tree	Enable or disable the hierarchical device tree view. Default: [X]
Filtering Mode	Select the filtering criteria for the displayed device list. Current: [All Device]
PCI Device Tree ^[Note1]	(Informational) Displays a hierarchical ^[Note2] tree view of all connected PCI devices, including Root Ports, Bridges, Controllers, and Endpoints (e.g., Network, Storage, USB, and Wi-Fi adapters).
Device Topology	Press [Enter] to view device topology settings



(Note1) The PCI Device Tree: This section is read-only and dynamic. It visualizes the current PCI topology of the system.

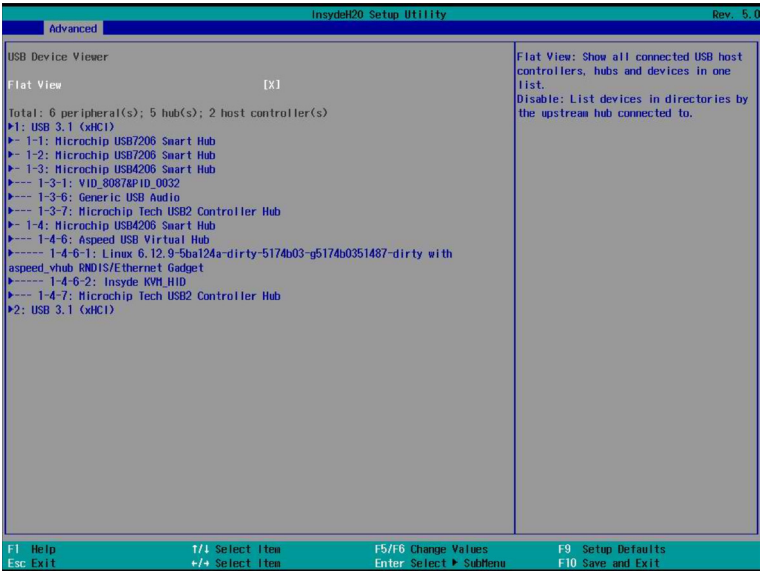
(Note2) Hierarchy: The tree structure (indicated by the I-- and I---- syntax) represents the physical connectivity of devices on the PCI bus, starting from the Root Port down to the end-point controller. This is highly useful for troubleshooting hardware detection issues (e.g., verifying if a PCIe card is connected to the correct slot).

5-2-11-1 Device Topology

InsydeH2O Setup Utility			Rev. 5.0
Advanced			
Device Path	VenHw(1E5A432C-0466-4D31-0009-04D923927103)/MemoryMapped(0xB, 0x140C0000, 0x140C1FFF)/PciRoot(0x2)/Pci(0x0, 0x0)		Display the Device Path of this PCI/PCIe Device.
PCI Location	0002:00:00.0		
Slot Name	N/A		
Vendor ID	0x10DE		
Device ID	0x22B2		
Header Type	Bridge, Single-Function		
Class Code	Bridge - PCI/PCI bridge - Normal decode		
Maximum Link Width	x8		
Current Link Width	Not Provided		
Maximum Link Speed	32.0 GT/s (Gen5)		
Current Link Speed	2.5 GT/s (Gen1)		
Display Capability Interpretation	[]		
PCI Capabilities			
PCI Power Management Interface (0x01)			
PCI Express (0x10)			
Message Signaled Interrupts (0x05)			
PCIe Extended Capabilities			
Secondary PCI Express (0x0019)			
Data Link Feature (0x0025)			
Physical Layer 16.0 GT/s (0x0026)			
Physical Layer 32.0 GT/s (0x002A)			
Lane Margining at the Receiver (0x0027)			
L1 PM Substates (0x001E)			
Advanced Error Reporting (AER) (0x0001)			
Access Control Services (ACS) (0x0000)			
FRS Queuing (0x0021)			
Downstream Port Containment (DPC) (0x0010)			
Hierarchy ID (0x0028)			
F1 Help	F7/L Select Item	F5/F6 Change Values	F9 Setup Defaults
Esc Exit	Enter Select Item	Enter Select SubMenu	F10 Save and Exit

Parameter	Description
Device Path	Displays the unique UEFI device path for the selected PCI/PCIe device.
PCI Location	Shows the physical PCI Bus/Device/Function (BDF) location (e.g., 0001:03:00.1).
Slot Name	Identifies the physical slot name (if available/N/A).
Vendor ID / Device ID	Unique hexadecimal identifiers for the hardware vendor and device model.
Header Type	Defines the PCI header configuration (e.g., Bridge, Single-Function, Multi-Function).
Class Code	Identifies the device class (e.g., Network Controller, USB Controller, Bridge).
Maximum Link Width	The hardware-rated maximum PCIe link width (e.g., x8, x16).
Current Link Width	The current negotiated PCIe link width.
Maximum Link Speed	The hardware-rated maximum link speed (e.g., 32.0 GT/s / Gen5).
Current Link Speed	The currently negotiated link speed.
Display Capability Interpretation	Enable/Disable to interpret the capability registers. Default: []
PCI Capabilities	Lists standard PCI features supported by the device (e.g., Power Management, MSI-X).
PCIe Extended Capabilities	Lists advanced PCIe-specific features supported by the device (e.g., AER, SR-IOV, ACS, LTR).

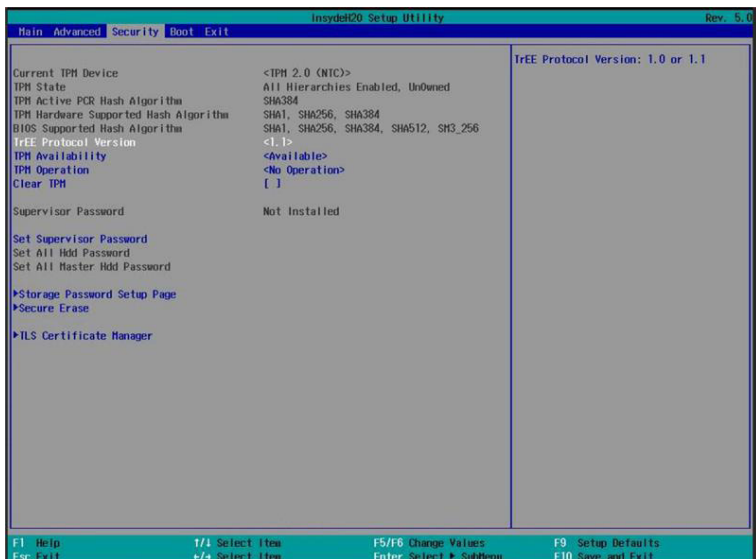
5-2-12 USB Device Viewer



Parameter	Description
Flat View	Click to show detailed information of this host controller.

5-3 Security Menu

The Security menu allows you to safeguard and protect the system from unauthorized use by setting up access passwords.



There are two types of passwords that you can set:

- Administrator Password
Entering this password will allow the user to access and change all settings in the Setup Utility.
- User Password
Entering this password will restrict a user's access to the Setup menus. To enable or disable this field, a Administrator Password must first be set. A user can only access and modify the System Time, System Date, and Set User Password fields.

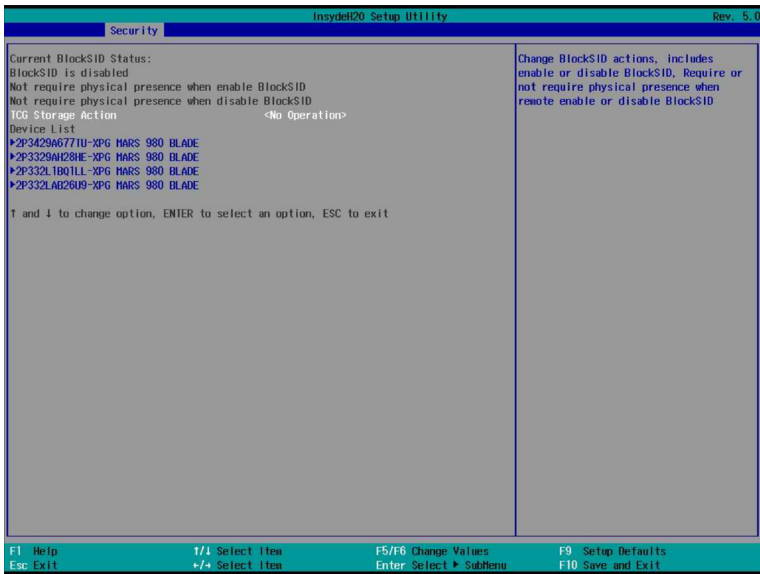
Parameter	Description
Current TPM Device	Displays the detected TPM device.
TPM State	Displays the installation status of the TPM module.
Supervisor Password	Displays the installation status of the Supervisor password.
Set Supervisor Password	Press [Enter] to install or change the Supervisor password.
Set All Hdd Password	Press [Enter] to set passwords for all detected Hard Disk Drives (HDD).
Set All Master Hdd Password	Press [Enter] to set the Master HDD password for all detected drives.
Storage Password Setup Page	Press [Enter] to access the specific storage device password configuration submenu.
Secure Erase	Press [Enter] to access the Secure Erase utility to permanently wipe storage device data.
TLS Certificate Manager	Press [Enter] to manage TLS certificates for network security.



(Note1) If the Supervisor or HDD password is forgotten, it cannot be recovered. Ensure all passwords are recorded in a secure location.

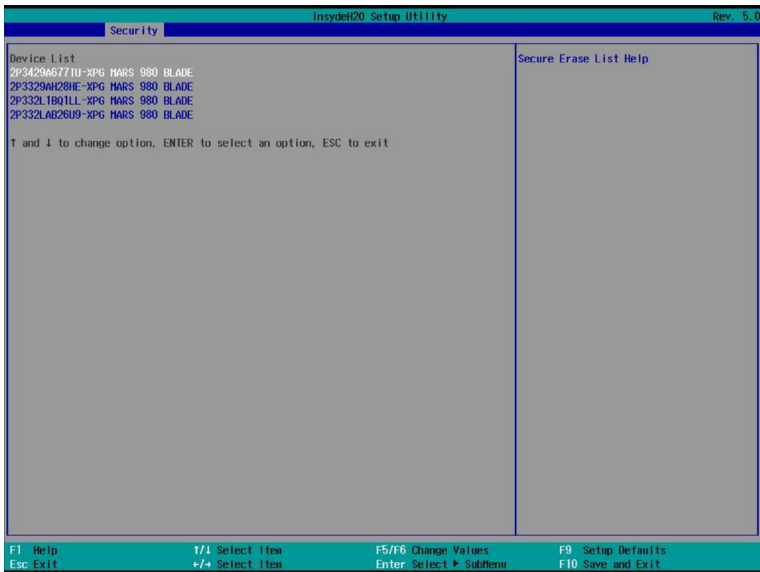
(Note2) This function will permanently delete all data on the selected storage device.

5-3-1 Storage Password Setup Page



Parameter	Description
Current BlockSID Status	Displays the current operational status of the BlockSID feature.
Not require physical presence when enable BlockSID	Configure whether physical presence validation is bypassed when remotely enabling BlockSID.
Not require physical presence when disable BlockSID	Configure whether physical presence validation is bypassed when remotely disabling BlockSID.
TCG Storage Action	Selects the TCG storage operation to perform.
Device List	Displays the list of detected storage devices. Press [Enter] to configure TCG security settings for a specific device.

5-3-2 Security Erase



Parameter	Description
Device List	Displays all detected storage devices. Use the arrow keys to select a device and press [Enter] to initiate the Secure Erase process.

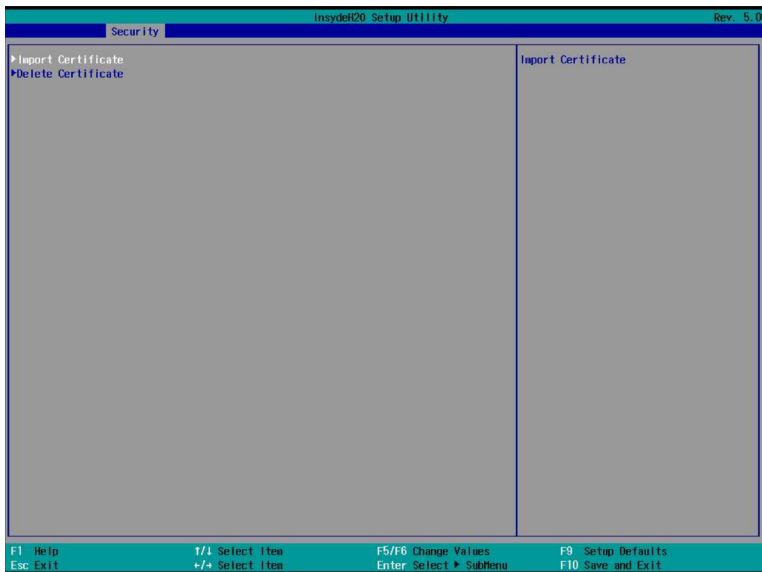


WARNING

The Secure Erase operation is irreversible. Selecting a device and confirming the process will permanently delete all data stored on that drive. Ensure that all critical data has been backed up to an external location before attempting a secure erase. This function cannot be undone, and the manufacturer is not responsible for data loss caused by user action.

5-3-3 TLS Certificate Manager

This menu allows you to manage the digital certificates required for establishing encrypted (TLS/SSL) connections to the system's management interface (BMC or BIOS remote access).



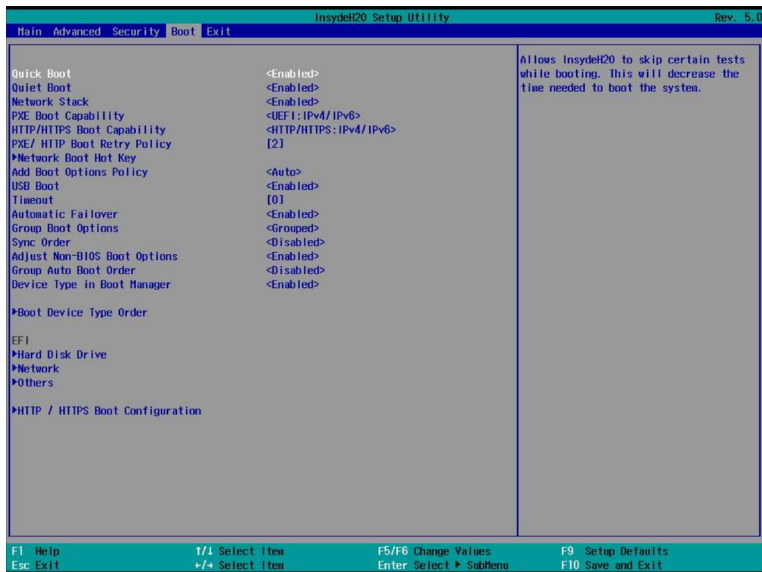
Parameter	Description
Import Certificate	Press [Enter] to import a new TLS certificate for secure network communication.
Delete Certificate	Press [Enter] to view and remove currently installed TLS certificates from the system.



Note Users should have the appropriate certificate files (usually in .pem or .crt format) ready on a connected storage device before attempting an import. These certificates should only be imported from trusted and verified sources to prevent unauthorized network access.

5-4 Boot Menu

The Boot menu allows you to set the drive priority during system boot-up. BIOS setup will display an error message if the legacy drive(s) specified is not bootable.



Parameter	Description
Boot Configuration	
Quiet Boot	Enable/Disable showing the logo during POST. Options available: Enabled , Disabled.
Network Stack	Options available: Enabled , Disabled.
PXE Boot Capability	Options available: UEFI PXE: IPv4/IPv6 , UEFI PXE: IPv4, UEFI PXE: IPv6, Disabled.
HTTP/HTTPS Boot Capability	Options available: HTTP/HTTPS: IPv4/IPv6 , HTTP/HTTPS: IPv4, HTTP/HTTPS: IPv6, Disabled.
PXE / HTTP Boot Retry Policy	PXE / HTTP boot retry settings.
Network Boot Hot Key	Press [Enter] for configuration of advanced items. ◆ Network Hot Key Policy – Options available: Disabled, Network Boot First, Network Boot Only. ◆ Network Hot Key Capability – Options available: Both, HTTP Only, PXE Only. ◆ Network Hot Key Other – Options available: Default, PXE First, HTTP First.

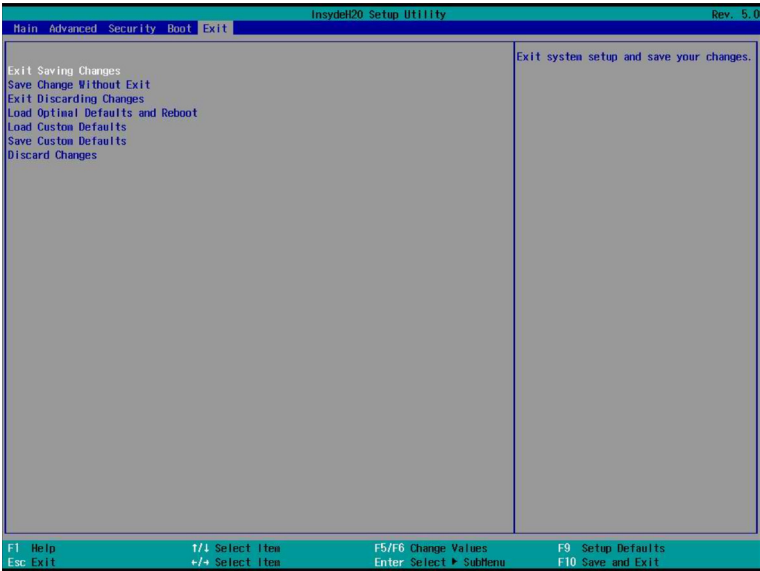
Parameter	Description
Add Boot Options Policy	Position in Boot Order Shell, network and Removables. Options available: Auto , First, Last.
USB Boot	Options available: Enabled , Disabled.
Timeout ^(Note1)	The number of seconds that the firmware will wait before booting the original default boot selection.
Automatic Failover	Options available: Enabled , Disabled.
Group Boot Option	Options available: Grouped , Non-Grouped.
Sync Oder	Options available: Disabled , Enabled.
Adjust Non-BIOS Boot Options	Options available: Enabled , Disabled.
Group Auto Boot Order	Options available: Disabled , Enabled.
Device Type in Boot Manager	Options available: Enabled , Disabled.
Boot Device Type Oder	Press [Enter] to configure the boot priority.
Network	Press [Enter] to configure the boot priority.
Others	Press [Enter] to configure the boot priority.
HTTP/ HTTPS Boot Configuration	Press [Enter] to for advanced configuration.



(Note1) Use the + or - keys to move devices up or down in the boot priority list. If you are unable to enter the BIOS Setup, check that the Timeout value is set to a non-zero value.

5-5 Exit Menu

The Save & Exit menu displays the various options to quit from the BIOS setup. Highlight any of the exit options then press <Enter>.



Parameter	Description
Exit Saving Changes	Saves changes made and closes the BIOS setup. Options available: Yes, No.
Save Changes without Exit	Save your changes and without exiting system. Options available: Yes, No.
Exit Discarding Changes	Discards changes made and exits the BIOS setup. Options available: Yes, No.
Load Optimal Defaults	Press [Enter] to load optimal defaults. Options available: Yes, No.
Load Custom Defaults	Press [Enter] to load custom defaults. Options available: Yes, No.
Save Custom Defaults	Saves changes done so far to any of the setup options. Options available: Yes, No.
Discard Changes	Discards changes made and exits the BIOS setup. Options available: Yes, No.

Chapter 6 Troubleshooting

6-1 Collecting BIOS POST Code Logs

If the system fails to boot, hangs during BIOS POST, repeatedly restarts, or encounters other hardware initialization issues, collect the BIOS POST code logs and provide them to your Giga Computing technical support contact for further diagnosis.

6-1-1 Dump Current POST Code

Linux Command:

- `curl -k -u <USER>:<PASSWORD> "https://<BMC_IP>/redfish/v1/Systems/Self/LogServices/CurrentBIOSPostCodes/Entries" -s -o current_postcodes.json`
- Replace <BMC_IP>, <USER>, and <PASSWORD> with the target BMC IP address, WebUI username, and password.
- After the command is executed, the following file will be generated:
current_postcodes.json

This file contains the current BIOS POST code log:

```
"Created": "2026-03-23T13:41:55-04:00",
"Description": "Displays the BIOS postcodes.",
"EntryType": "Oem",
"EventId": "1",
"EventTimestamp": "2026-03-23T13:41:55-04:00",
"EventType": "Alert",
"Id": "1",
"Message": "Boot Count: 234; Time Stamp Offset: 0.000000000000 Seconds; Post Code: 0x0100000000001C0",
"MessageArgs": [
  "234",
  "0.000000000000",
  "0x0100000000001C00"
],
```

6-1-2 Dump Previous POST Code

Linux Command:

- `curl -k -u <USER>:<PASSWORD> "https://<BMC_IP>/redfish/v1/Systems/Self/LogServices/PreviousBIOSPostCodes/Entries" -s -o previous_postcodes.json`
- Replace <BMC_IP>, <USER>, and <PASSWORD> with the target BMC IP address, WebUI username, and password.
- After the command is executed, the following file will be generated: previous_postcodes.json

This file contains the current BIOS POST code log:

```
11      "Created": "2026-03-23T13:41:57-04:00",
12      "Description": "Displays the BIOS postcodes.",
13      "EntryType": "Oem",
14      "EventId": "1",
15      "EventTimestamp": "2026-03-23T13:41:57-04:00",
16      "EventType": "Alert",
17      "Id": "1",
18      "Message": "Boot Count: 233; Time Stamp Offset: 0.000000000000 Seconds; Post Code: 0x0100000000001C00",
19      "MessageArgs": [
20        "233",
21        "0.000000000000",
22        "0x0100000000001C00"
23      ],
```



NOTE:

- Collect both current_postcodes.json and previous_postcodes.json whenever possible.
- Attach the generated JSON files when contacting Giga Computing Technical Support to help expedite troubleshooting and root cause analysis.
- Technical Support Contact: <https://esupport.gigabyte.com/Login/Index?ReturnUrl=%2f>

6-2 Standard Operating Procedure for Leaks

If coolant leakage is suspected:

1. Immediately shut down the workstation.
2. Disconnect the AC power cord.
3. Do not continue operating the system.
4. Inspect the radiator, tubing, and cold plate for signs of leakage.
5. If coolant has contacted internal components, do not power on the system.
6. Wipe away visible coolant with a lint-free cloth and allow the system to dry completely.
7. The closed-loop liquid cooling module is factory sealed and is not user serviceable. Do not disassemble, refill coolant, or tighten fittings.
8. Contact Giga Computing technical support or your authorized service provider for inspection or replacement of the liquid cooling module.
 - **Technical Support:** gigabyte.com/Support/Enterprise
 - **Web:** <http://www.gigabyte.com/Enterprise>



Warning!

- Do not operate the workstation if coolant leakage is detected.
- Continued operation may result in permanent damage to system components.