

V2200D Series User Manual

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www.moxa.com/products



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V2200D Series User Manual

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1. Introduction

This chapter gives a general overview of the V2200D computer's hardware features and specifications.

Overview

The V2200D Series embedded computers are built around an Intel Atom® Amston Lake x7433RE processor and come with up to 32 GB DDR4 memory, one internal M.2 2242 M-key storage slot, and two front-accessible easy-swappable M.2 2280 M-key storage slots for flexible and reliable data storage. The computers comply with railway requirements for operating temperature, power input, and EMC, making them suitable for onboard and wayside applications in harsh railway environments.

For enhanced data protection, the front-accessible storage slots are equipped with a lock, allowing only authorized personnel to access the storage devices. The V2200D computers provide essential industrial interfaces, including 2 Gigabit Ethernet ports, 2 RS-232/422/485 serial ports, 4 digital inputs, 4 digital outputs, 2 USB 3.0 ports, 1 HDMI, and 1 DisplayPort, enabling seamless integration with onboard systems and field devices. A built-in TPM 2.0 module further strengthens platform integrity and provides hardware-based protection against unauthorized access and tampering.

Package Checklist

The following items are included in the package.

- V2200D Series embedded computer
- Wall-mounting kit (with five M3 x 5 mm screws)
- 2 keys (to lock the external M.2 M-key slot trays)
- HDMI cable clamp (with a M3 x 5 mm screw)
- Quick installation guide (printed)
- Warranty card



NOTE

Notify your sales representative if any of the above items are missing or damaged.

Product Features

- Intel® Atom® x7433RE embedded computer for in-vehicle applications
- DDR4 memory slot; up to 32 GB capacity
- Dual independent displays (HDMI and DisplayPort)
- 2 secure easy-to-swap M.2 M-key slots with locks
- 2 Gigabit Ethernet ports with M12 X-coded inner push-pull connectors
- Onboard TPM module for enhanced cybersecurity
- Complies with all EN 50155 mandatory test items*
- -40 to 70°C wide-temperature design

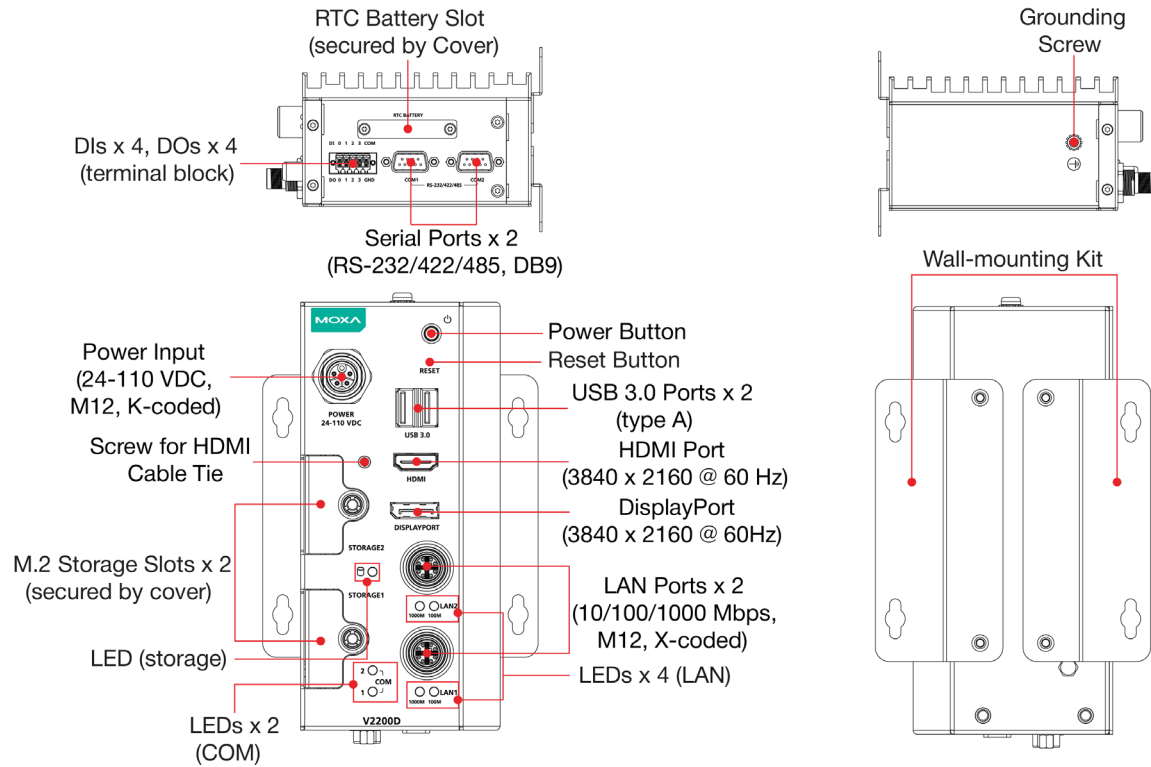
*This product is suitable for rolling stock railway applications, as defined by the EN 50155 standard. For a more detailed statement, click here: www.moxa.com/doc/specs/EN_50155_Compliance.pdf

Hardware Specifications

For the product hardware specifications, refer to Moxa's website: <https://www.moxa.com>.

2. Hardware Overview

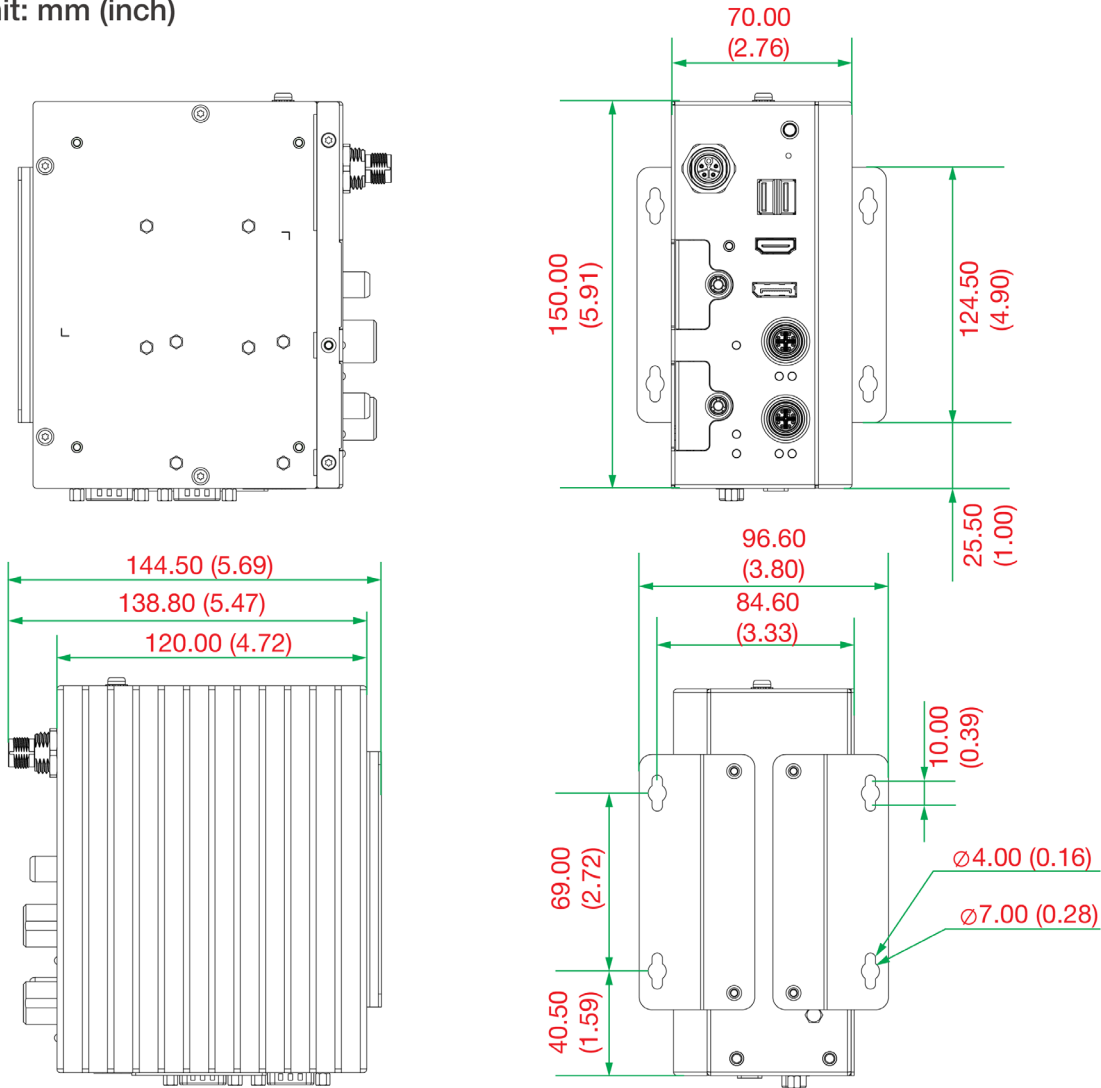
Appearance



Dimensions

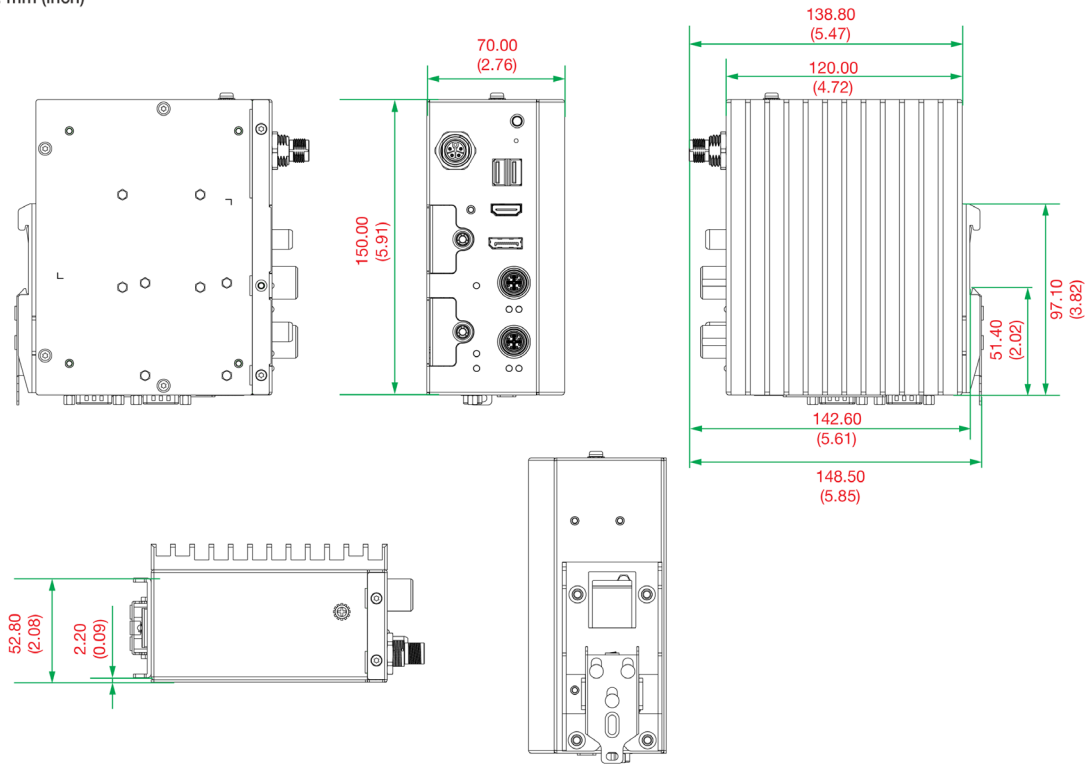
Wall-mounting Models

Unit: mm (inch)

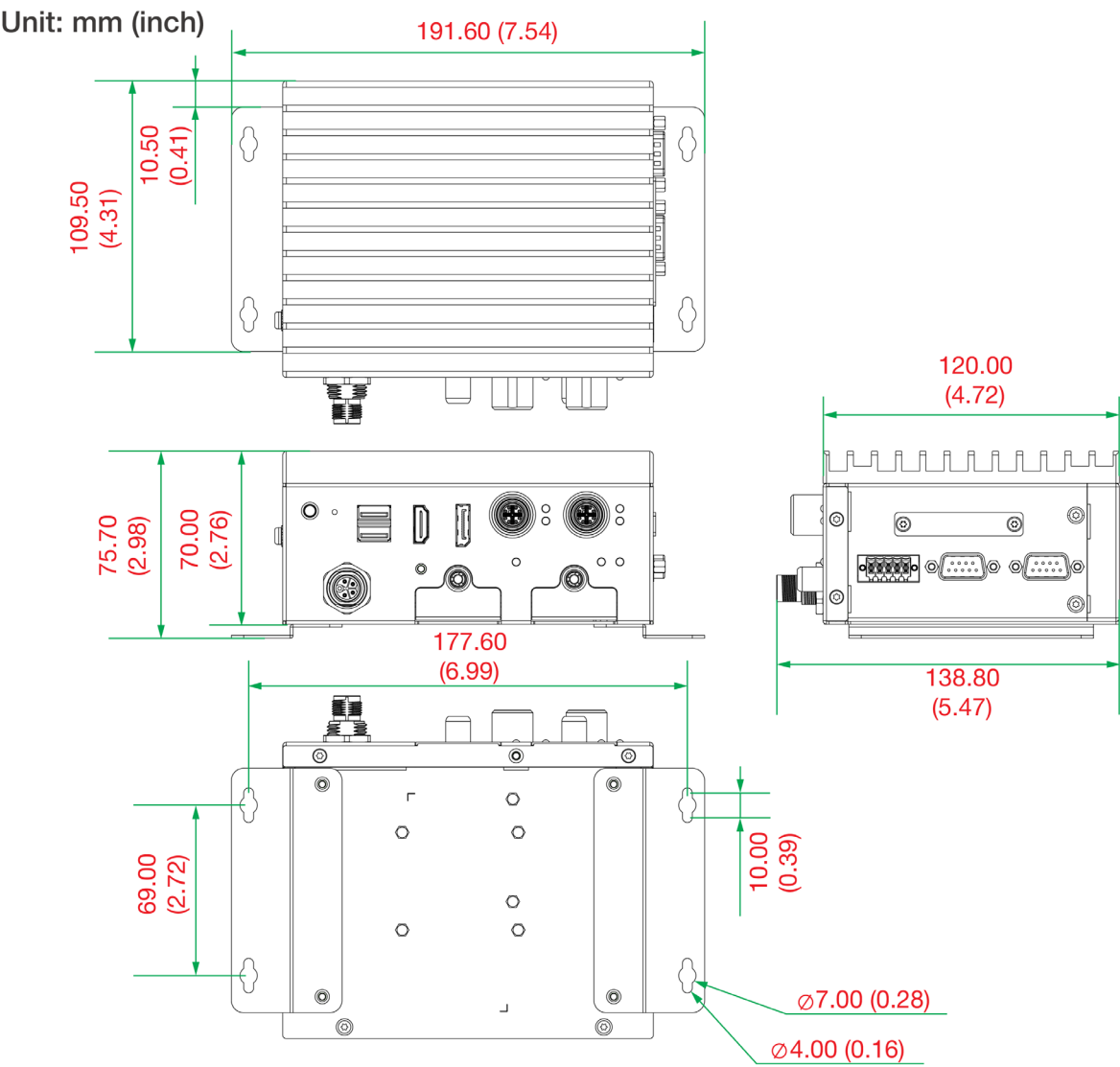


DIN-rail Mounting Models

Unit: mm (inch)



Desk-mounting Models



LED Indicators

LED	Color	Status	Function
Power	Green	On	Power supplied to power input
		Off	Power off or other power error
Ethernet (100/1000 Mbps)	Green	Solid	Port active and linking at 100 Mbps
		Blinking	Port transmitting data at 100 Mbps
		Off	Port transmitting data at 10 Mbps or cable not connected
	Yellow	Solid	Port active and linking at 1000 Mbps
		Blinking	Port transmitting data at 1000 Mbps
		Off	Port transmitting data at 10 Mbps or cable not connected
Serial (TX, RX)	Green	Solid	Port transmitting data (Tx)
		Off	Port inactive or link down
	Yellow	Solid	Port receiving data (Rx)
		Off	Port inactive or link down
Storage (M.2 M-key)	Yellow	Solid	Data accessed from one of the M.2 M-key storage drives
		Off	No activity on the storage drives

3. Hardware Setup and Connections

In this chapter, we show how to connect the embedded computers to the network and to a variety of common devices.

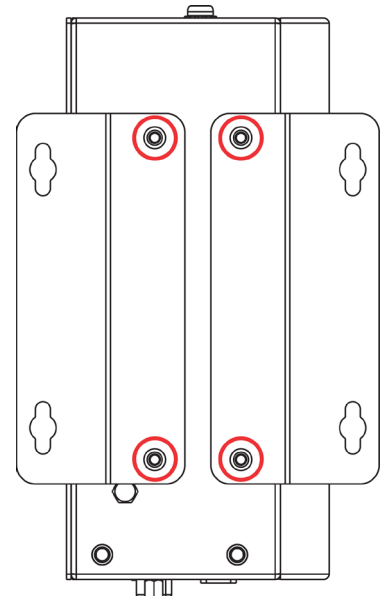
Installing the V2200D

Wall-mounting

The V2200D comes with a wall-mounting kit in the product package. To install the computer on to a wall or a cabinet, do the following:

Step 1

Use two screws (M3 x 5 mm with a torque value of 4.5kgf-cm; see **Screws for Wall and Desk Mounting**) to attach the brackets to the rear panel of the computer as indicated in the figure.



Step 2

Use two screws (M3 x 5 mm standard is recommended; see **Screws for Wall and Desk Mounting**) on each side to attach the V2200D to a wall or cabinet.

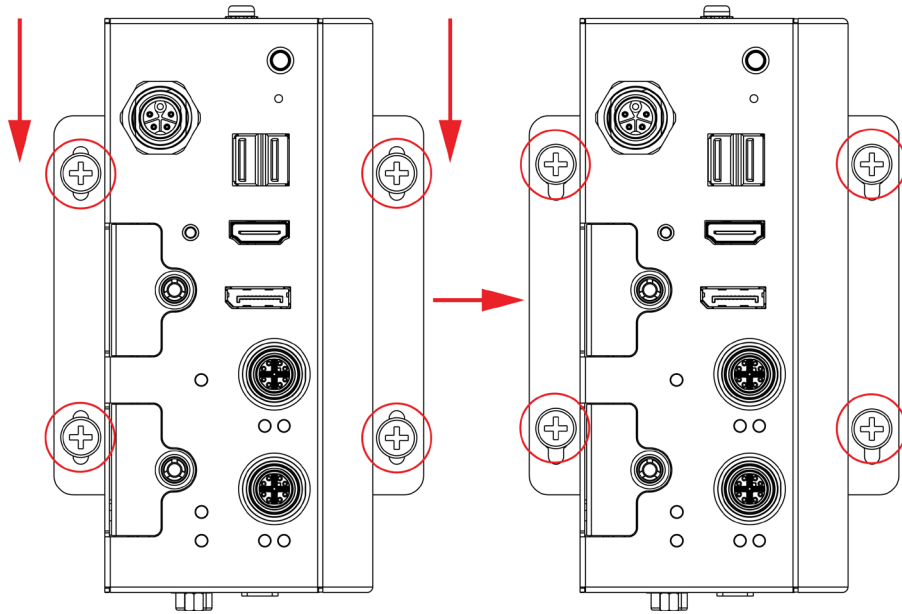


NOTE

The product package does not include the four screws required for attaching the wall-mounting kit to the wall. You must purchase them separately.

Step 3

Pull the mounted computer downwards against the mounting surface to ensure the computer is secured as shown in the following figures:

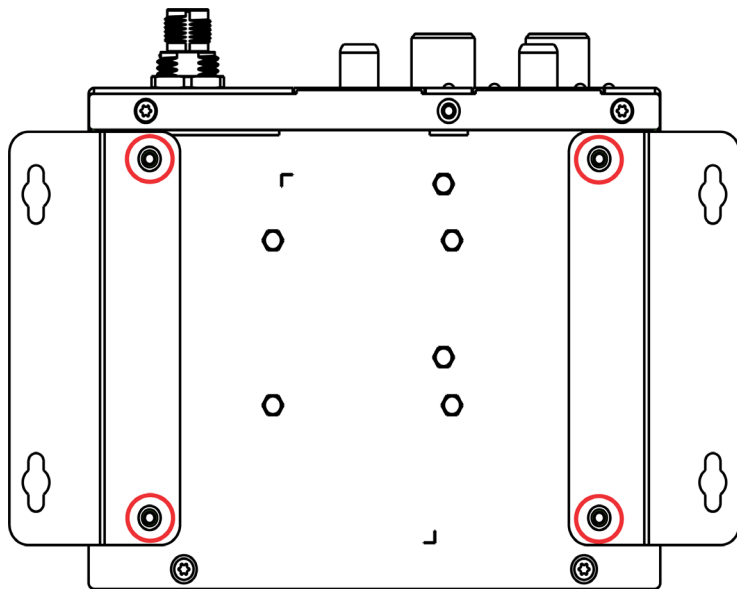


Desktop Mounting

The V2200D computers can also be mounted on to a desk or a flat surface as follows:

Step 1

Attach the brackets to the side panel of the computer using two screws (M3 x 5L with torque value of 4.5 kgf-cm; refer to **Screws for Wall and Desk Mounting** section) on each side as indicated in the following figure.



Step 2

Use two screws (M3 x 5L standard is recommended, refer to **Screws for Wall and Desk Mounting**) on each side to attach the V2200D to a wall or cabinet.

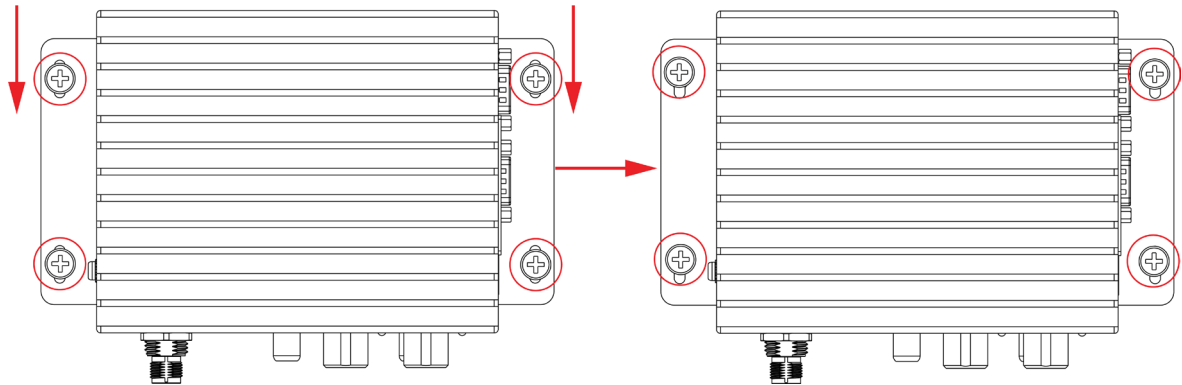


NOTE

The product package does not include the four screws required for attaching the mounting kit to the desk. You must purchase them separately.

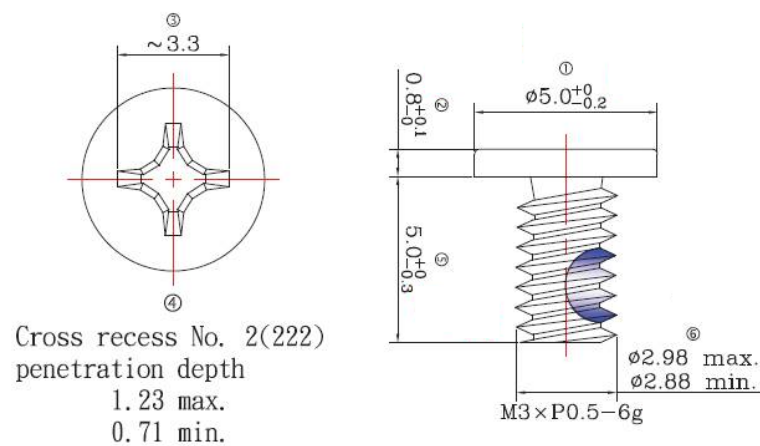
Step 3

Pull the mounted computer downwards against the mounting surface to ensure the computer is secured as shown in the following figures:



Screws for Wall and Desk Mounting

The specifications of the screws for wall and desk mounting are shown in the following figures:



Connecting the Power

The V2200D computers are provided with M12 power input connectors on the front panel. Connect the power cord wires to the connectors and then tighten the connectors.

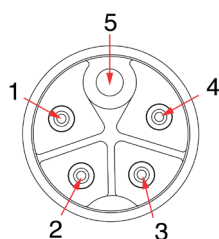


NOTE

Connect the computer to a listed 24 to 110 VDC power adapter or DC power source rated for at least 1.68 A @ 24 VDC or 0.38 A @ 110 VDC and with a minimum ambient temperature rating of 70°C. Use a 18 AWG (min.) wire for the power connection.

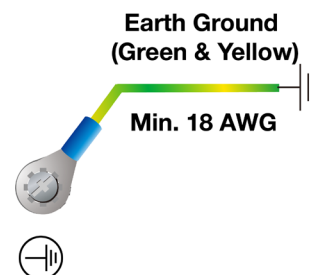
To supply power, push the power button. The **Power** LED will light up to indicate that power is being supplied to the computer. After this, it will take about 30 to 60 seconds for the operating system to complete the boot-up process.

Pin	Definition
1	V1+
2	V1-
3	N/A
4	N/A
5	GND



If a power adapter is used, connect it to a properly grounded power outlet.

For surge protection, connect the grounding connector on the top panel to earth (ground) or a well-grounded metal mounting surface using a green-and-yellow grounding cable with a minimum conductor size of 18 AWG.



Connecting Displays

The V2200D comes with an HDIM and a DisplayPort on the front panel, allowing you to connect to a display. There is an HDIM cable clamp in the package. Connect the cable clamp to the HDIM cable tie screw to ensure that the HDMI cable has been securely connected.



NOTE

Use premium HDMI-certified cables for highly reliable video streaming.

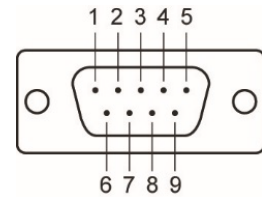
USB Ports

The V2200D comes with 2 USB 3.0 ports on the front panel. The USB ports can be used to connect to peripherals, such as keyboard, mouse, and flash drives for expanding the system's storage capacity.

Serial Ports

The V2200D comes with 2 software-selectable RS-232/422/485 serial ports on the bottom panel. The pin assignments are as follows:

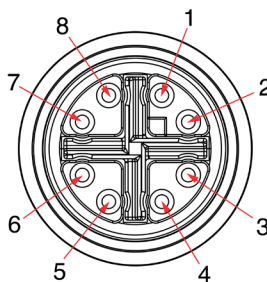
Pin	RS-232	RS-422	RS-485 (4-wire)	RS-485 (2-wire)
1	DCD	TxDA(-)	TxDA(-)	-
2	RxD	TxDB(+)	TxDB(+)	-
3	TxD	RxDB(+)	RxDB(+)	DataB(+)
4	DTR	RxDA(-)	RxDA(-)	DataA(-)
5	GND	GND	GND	GND
6	DSR	-	-	-
7	RTS	-	-	-
8	CTS	-	-	-



Ethernet Ports

The V2200D has 2 10/100/1000 Mbps Ethernet ports with M12 connectors on the front panel. The pin assignments are as follows:

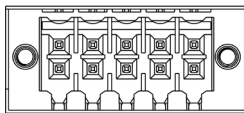
Pin	Definition
1	DA+
2	DA-
3	DB+
4	DB-
5	DD+
6	DD-
7	DC-
8	DC+



Digital Inputs/Outputs

The V2200D comes with 4 digital inputs and 4 digital outputs in a terminal block on the bottom panel. The pin assignments and the current ratings are as follows:

DI 0 1 2 3 COM



DO 0 1 2 3 GND

Digital Inputs

Dry Contact

Logic 0: Short to Ground
Logic 1: Open

Wet Contact (COM to DI)

Logic 0: 10 to 30 VDC
Logic 1: 0 to 3 VDC

Digital Outputs

Current Rating:

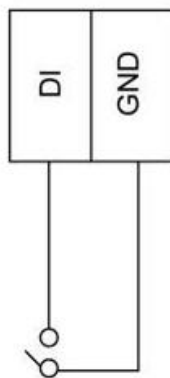
200 mA per channel

Voltage:

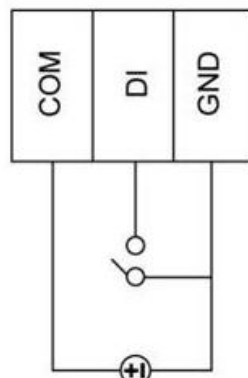
0 to 30 VDC

The wiring methods are shown in the diagram below:

DI Dry Contact

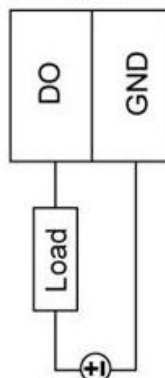


DI Wet Contact



DO Contact

Sink

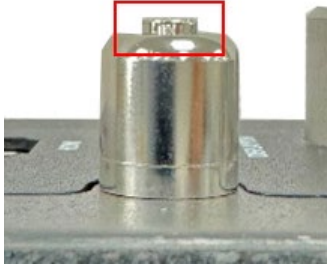


Installing the Storage Devices

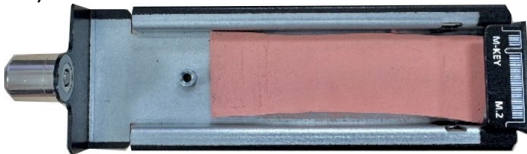
The V2200D comes with 2 M.2 storage slots on the front panel.

To install M.2 storage devices, do the following:

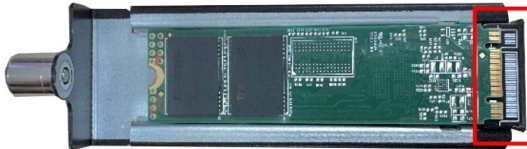
1. Use the corresponding key to the M.2 slot tray (included in the product package) to rotate the lock on the tray and unlock it.



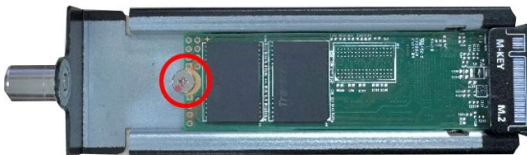
2. Pull out the M.2 slot tray.
3. Attach a thermal pad (purchase separately) on to the M.2 slot tray.



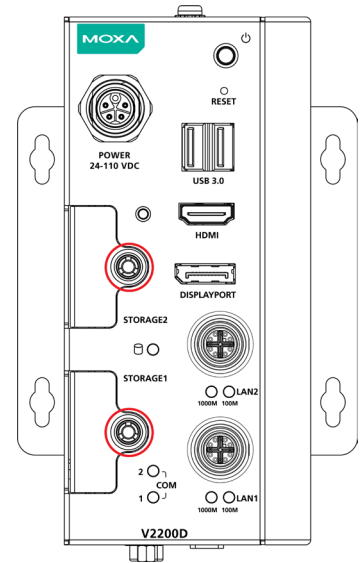
4. Align the pins on the M.2 SSD storage device with the M-key connector, insert the SSD into the slot, and push gently until it fits in the slot.



5. Secure the M.2 SSD storage to the tray using the screw provide in the package.



6. Put back the M.2 storage slot tray and use the key to lock it in place.



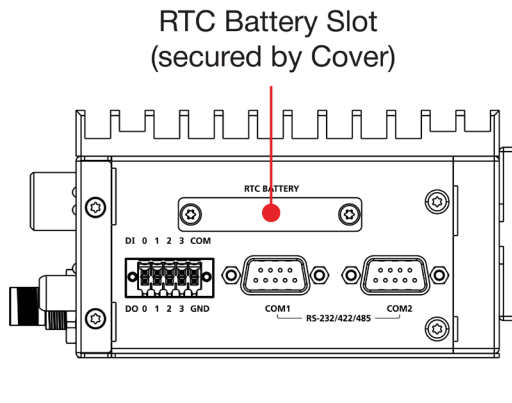
NOTE

This computer is intended to be installed in a restricted access area only. In addition, for safety reasons, the computer should be installed and handled only by qualified and experienced professionals.

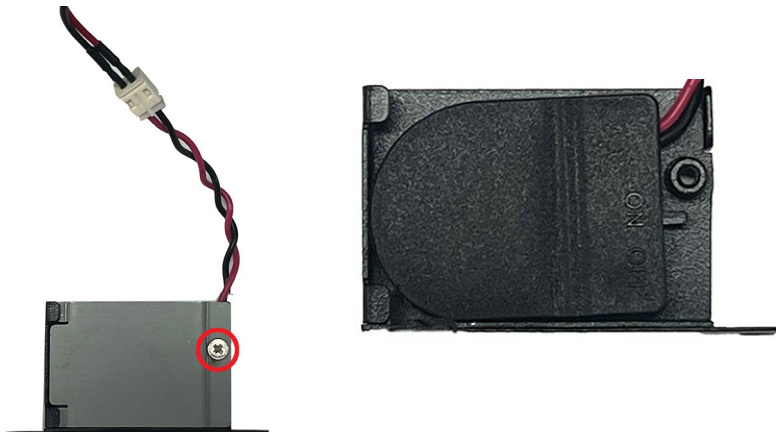
Replacing the Battery

The V2200D comes with one battery slot, which comes installed with a 3 V/195 mAh lithium battery. To replace the battery, do the following:

1. Unfasten the two screws on the battery cover located on the bottom panel and take off the cover.



2. The battery holder is attached to the slot cover as indicated in the image. Remove the screw on the cover and take out the battery holder.



3. Pull the two latches on the battery holder outwards to open the battery holder and take out the battery using a screwdriver.



4. Replace the battery with a new one and close the holder latches.
5. Close the battery holder (black cover and metal plates) and secure them with a screw.
6. Reattach the battery holder to the slot cover and place it back in the slot
7. Replace the slot cover and secure it with two screws.



NOTE

If you have unplugged the battery connector, do remember to plug it back in before placing the battery holder back in the slot.



CAUTION

Replace batteries with correct types. Contact Moxa's technical support staff for assistance, if needed.



WARNING

Risk of Explosion - Battery

Dispose of used batteries appropriately.

To avoid risk of fire and burns, do not short the external contacts, disassemble, crush, or puncture the batteries or dispose of them in fire or water.

4. BIOS Setup

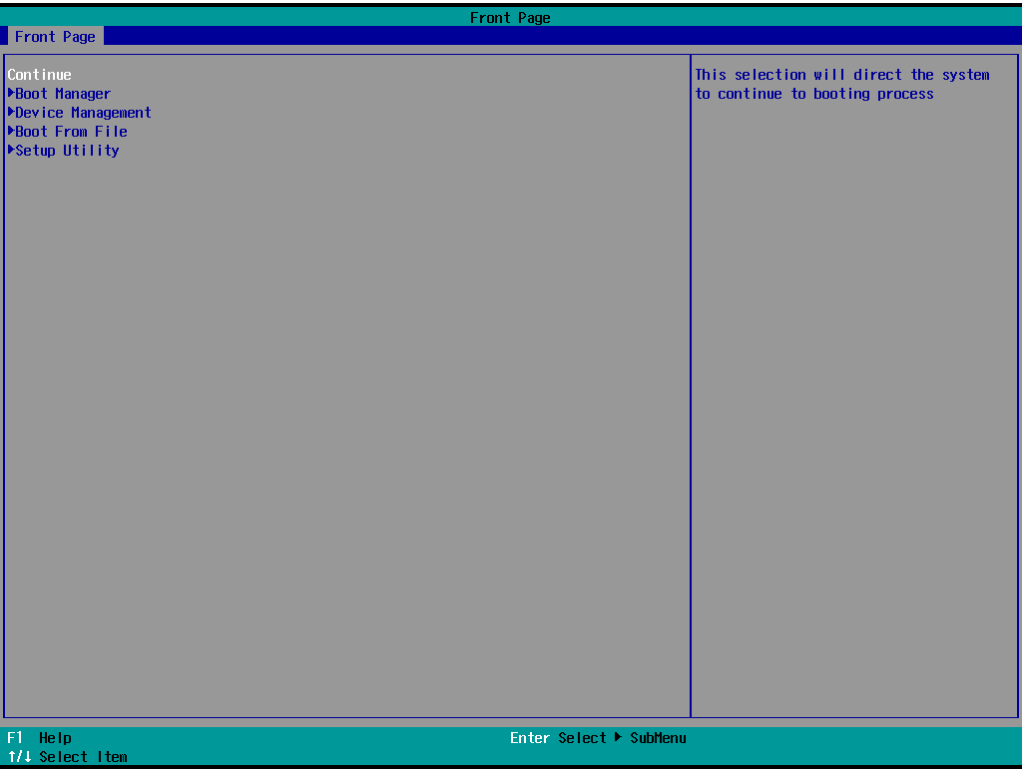
In this chapter, we describe the BIOS settings for the V2200D computer. The BIOS is a set of input/output control routines for peripherals to initialize the basic settings. The BIOS helps boot the system before the operating system is loaded. The BIOS setup allows the user to modify the system configuration for basic input/output peripherals. All the configurations are stored in the CMOS RAM, which has a backup battery in case the computer is not connected to a power source. Consequently, the data stored in the CMOS RAM is retained when the system is rebooted, or the power is disconnected.

Entering the BIOS Setup

To enter the BIOS setup utility, press the F2 key while the system is booting up. The main BIOS Setup screen will appear. You can configure the following settings on this screen.

- **Continue:** Continue to boot up
- **Boot Manager:** Select the device for boot up
- **Device Management:** Enter the device configuration menu
- **Boot From File:** Select the UEFI boot up file
- **Administer Secure Boot:** Enter the Secure Boot menu (Standard model)
- **Setup Utility:** Enter the BIOS configuration menu

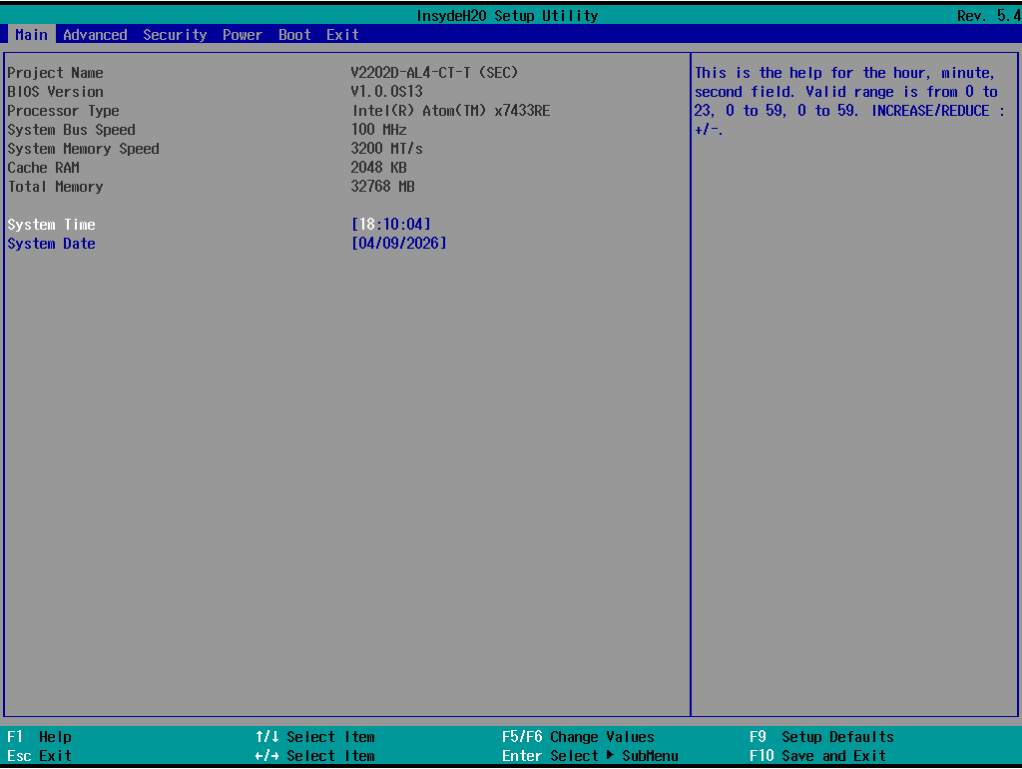
Select **F2** to enter the **BIOS configuration**.



When you enter the **Setup Utility**, a basic description of each function key is listed at the bottom of the screen. Refer to these descriptions to learn how to use them.

F1	General Help	↑ ↓ .	Select Item
F5/F6	Change Values	← →	Select Menu
F9	Setup Defaults	ESC	Exit
F10	Save and Exit	ENTER	Select or go to Submenu

The BIOS configuration screen is shown when you enter the **Setup Utility** option.

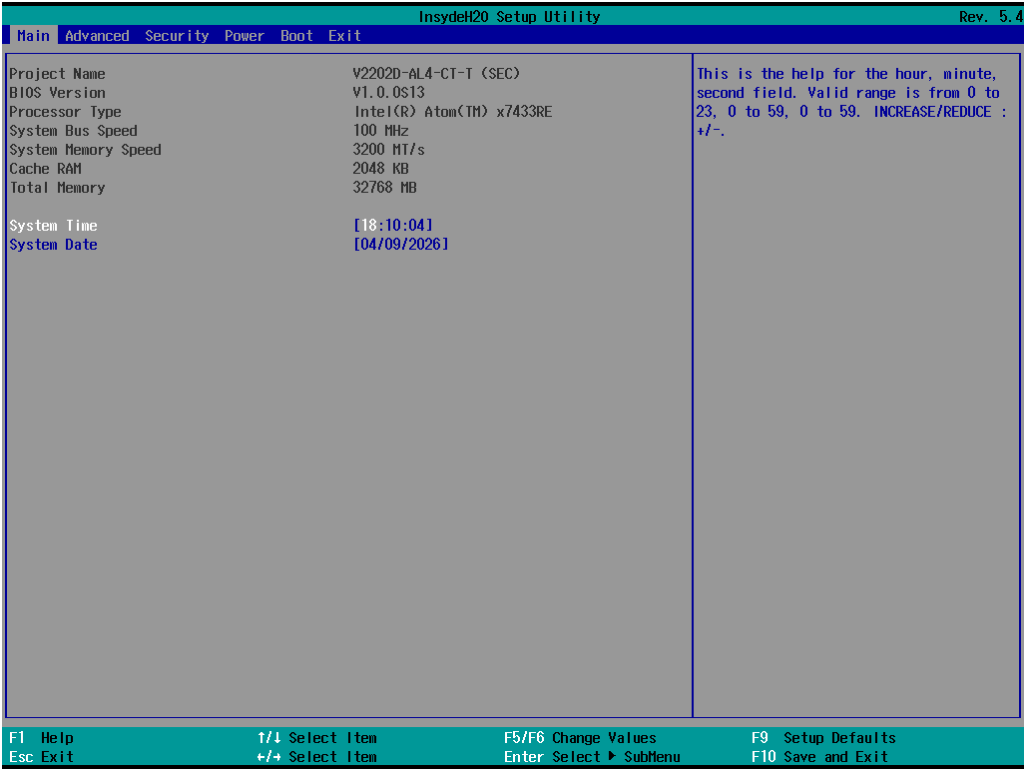


NOTE

The **Processor Type** information may vary depending on the model that you have purchased.

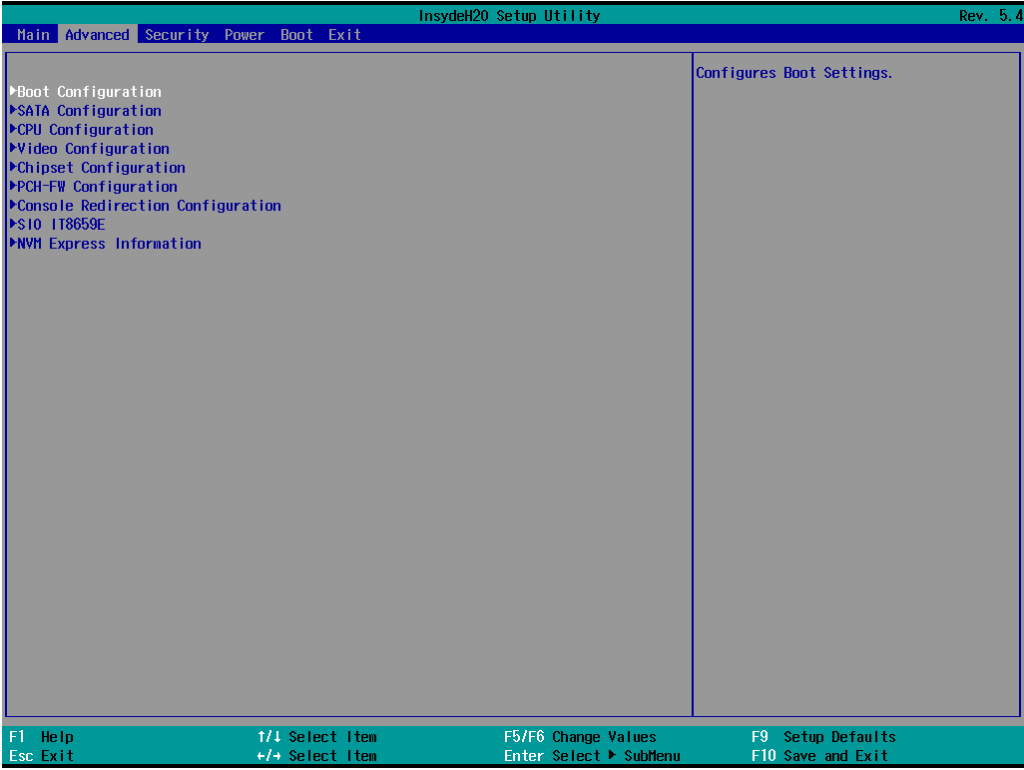
Main Page

The **Main** page displays basic hardware information, such as model name, BIOS version, and CPU type.



Advanced Settings

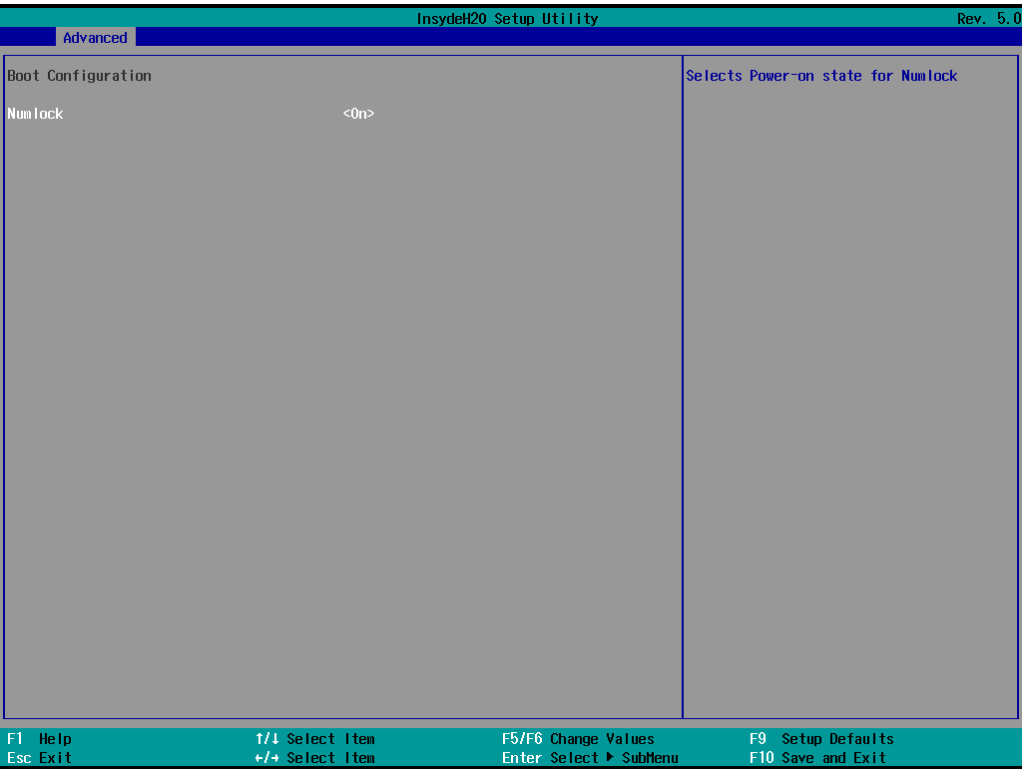
Select the **Advanced** tab in the main menu to open the advanced features screen.



Boot Configuration

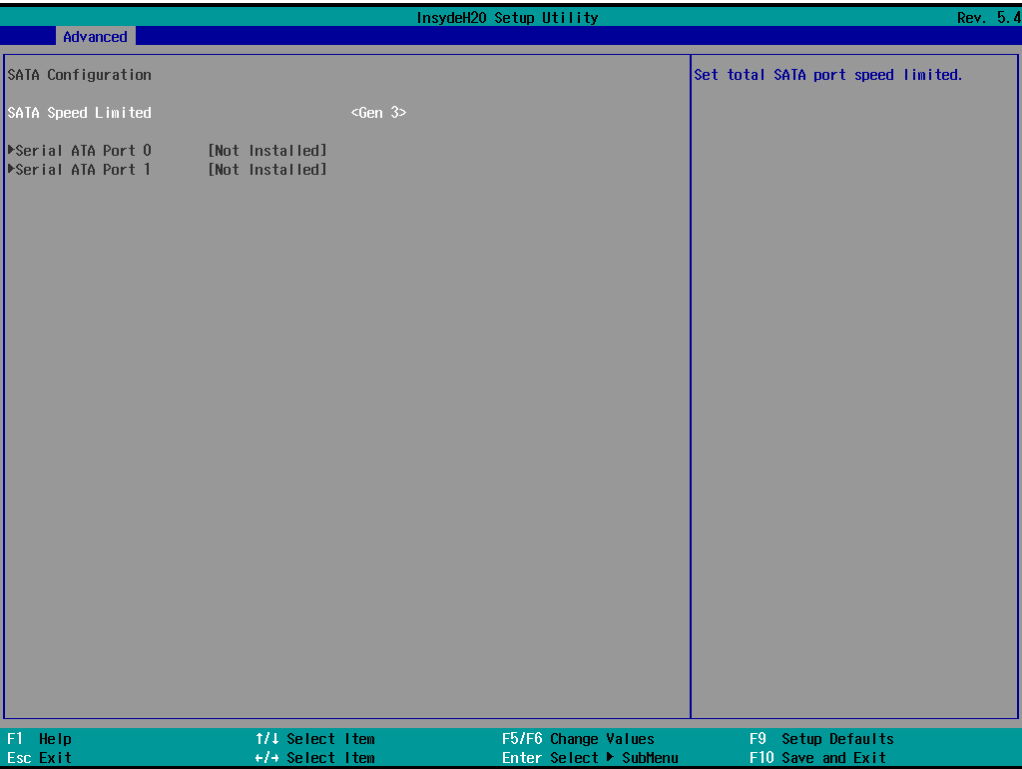
The **Numlock** option allows configuration of the Numlock value.

Options: On (default), Off.



SATA Configuration

This section allow you to select the SATA speed limit and hot plug setting.



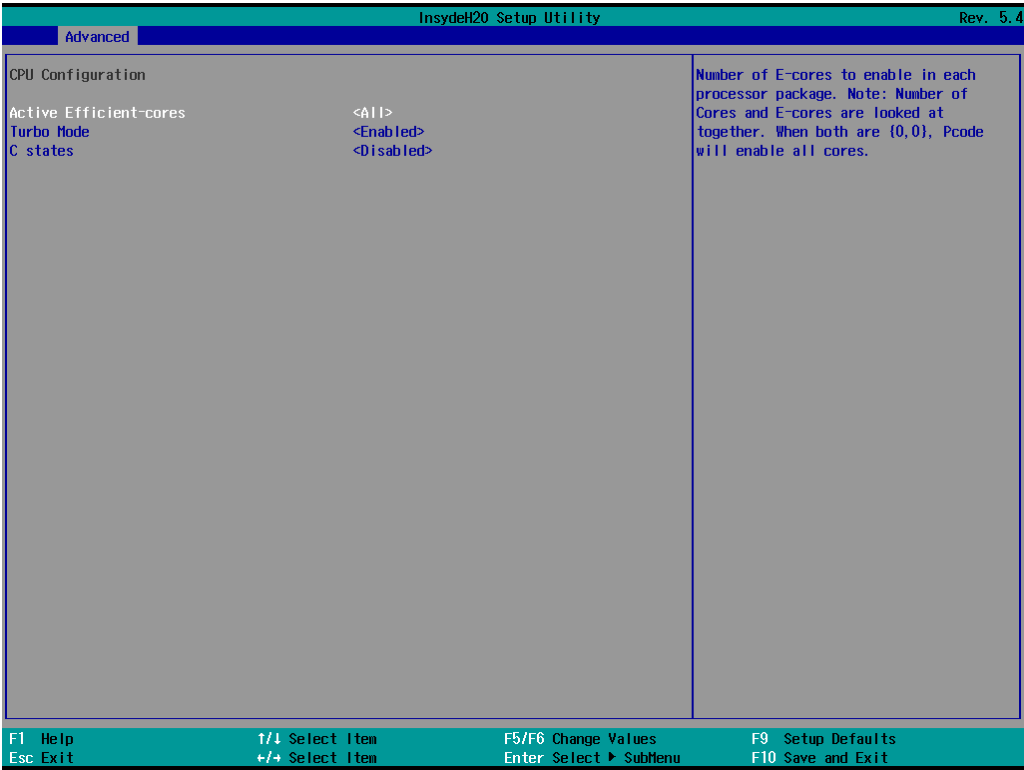
SATA Speed Limited

Options: Gen 1, Gen 2, Gen 3 (default)

Serial ATA Port X

This setting displays information on the installed drives.

CPU Configuration



Active Processor Cores

This item indicates the number of E-cores to enable in each processor package.

Turbo Mode

Enable/Disable processor Turbo Mode (not supported in models with Intel® Celeron®).

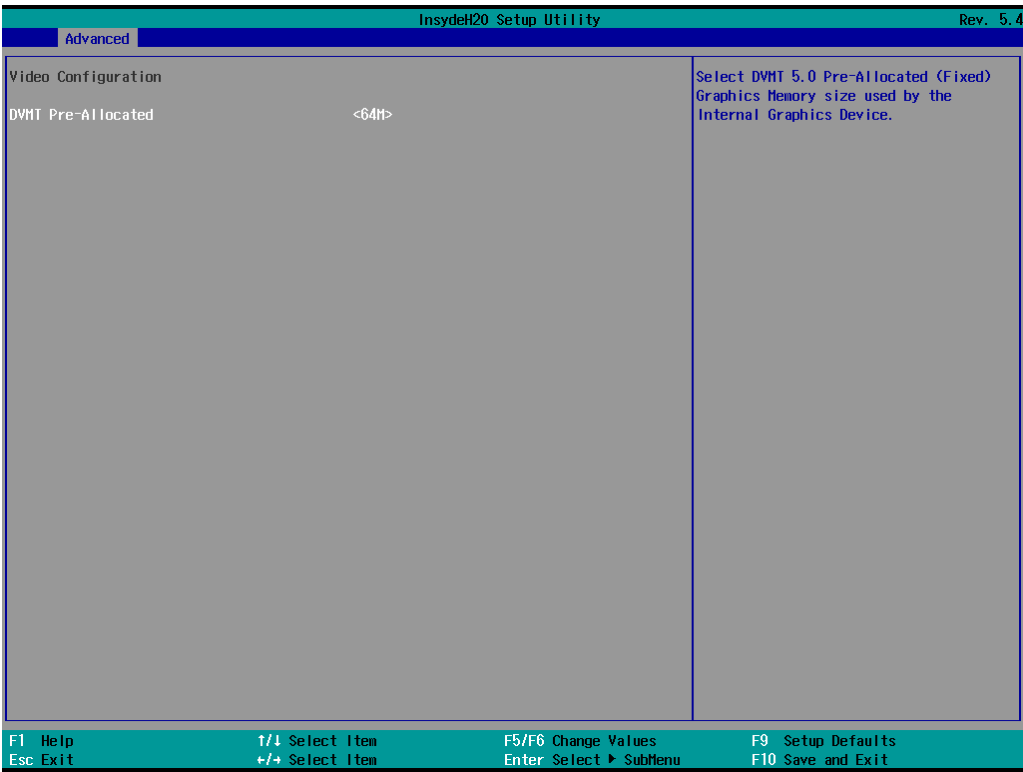
Options: Disabled, Enabled (default)

C states

Enable/Disable CPU Power Management. Allows CPU to go to C states when it's not 100% utilized.

Options: Disabled (default), Enabled

Video Configuration



DVMT Pre-Allocated

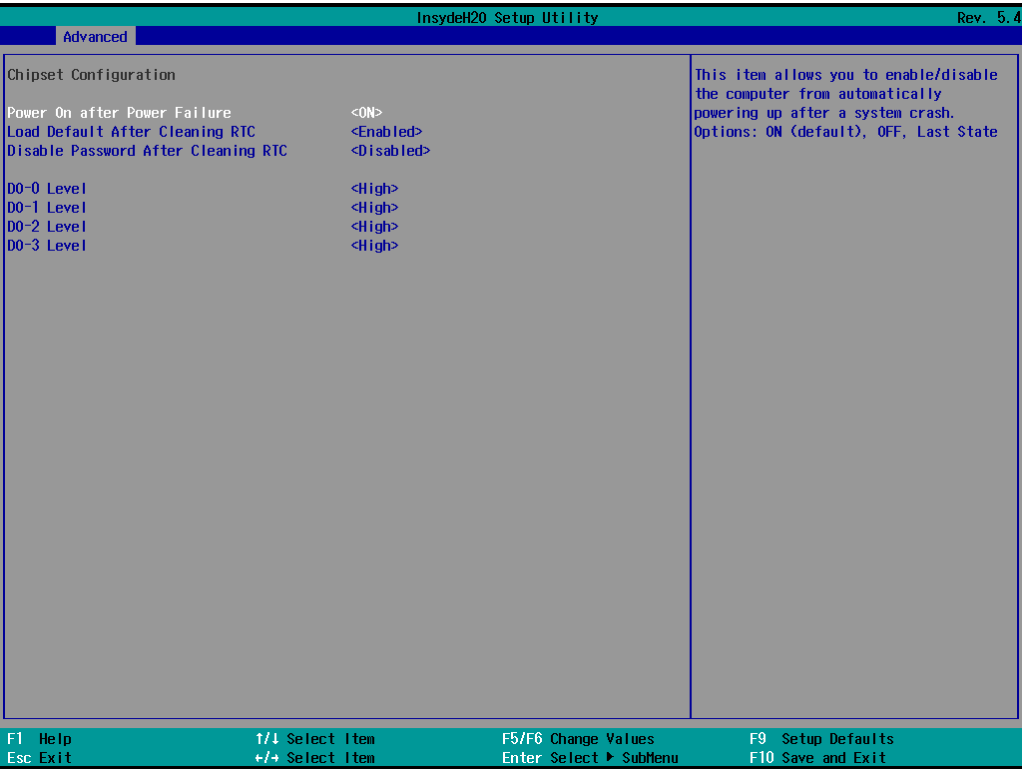
This item allows you to configure pre-allocated memory capacity for the IGD. Pre-allocated graphics memory is invisible to the operating system.

Options: 64M (default), 96M, 128M, 160M

DVMT: The amount of video memory your computer has depends on the amount of pre-allocated memory set for your system plus the Dynamic Video Memory Technology (DVMT). DVMT dynamically allocates system memory for use as video memory creating the most efficient use of available resources for maximum 2D/3D graphics performance.

Chipset Configuration

This section allows you to configure the chipset settings.



Power ON after Power Failure

This item allows you to enable/disable the computer from automatically powering up after system power is re-enabled.

Options: ON (default), OFF, Last State.

Load Default After Cleaning RTC

System will load default when detect RTC battery loss.

Options: Disabled, Enabled (default).

Disable Password After Cleaning RTC

System will disable password when detect RTC battery loss.

Options: Disabled, Enabled (default)

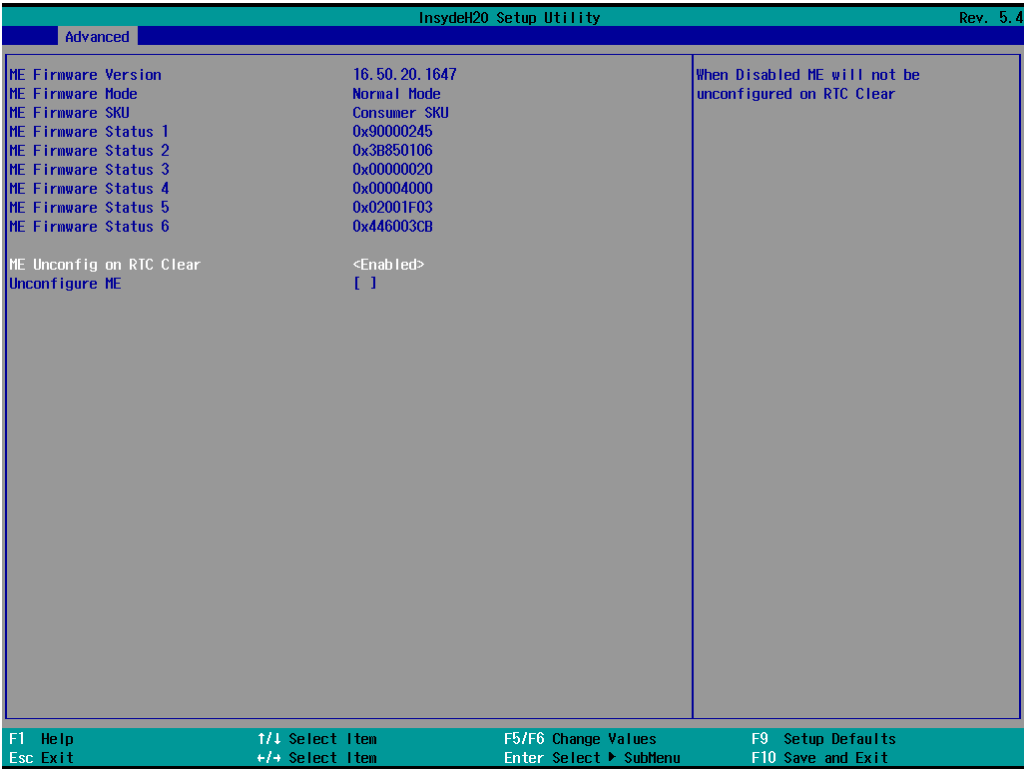
DO-X Level

This item allows users to set the DO to high or low.

Options: High (default), Low.

PCH-FW Configuration

This section allows you to configure the PCH-FW settings.



ME State

When Disabled ME will be put into ME Temporarily Disabled Mode.

Options: Disabled, Enabled (default)

ME Unconfig on RTC Clear

When Disabled ME will not be unconfigured on RTC Clear.

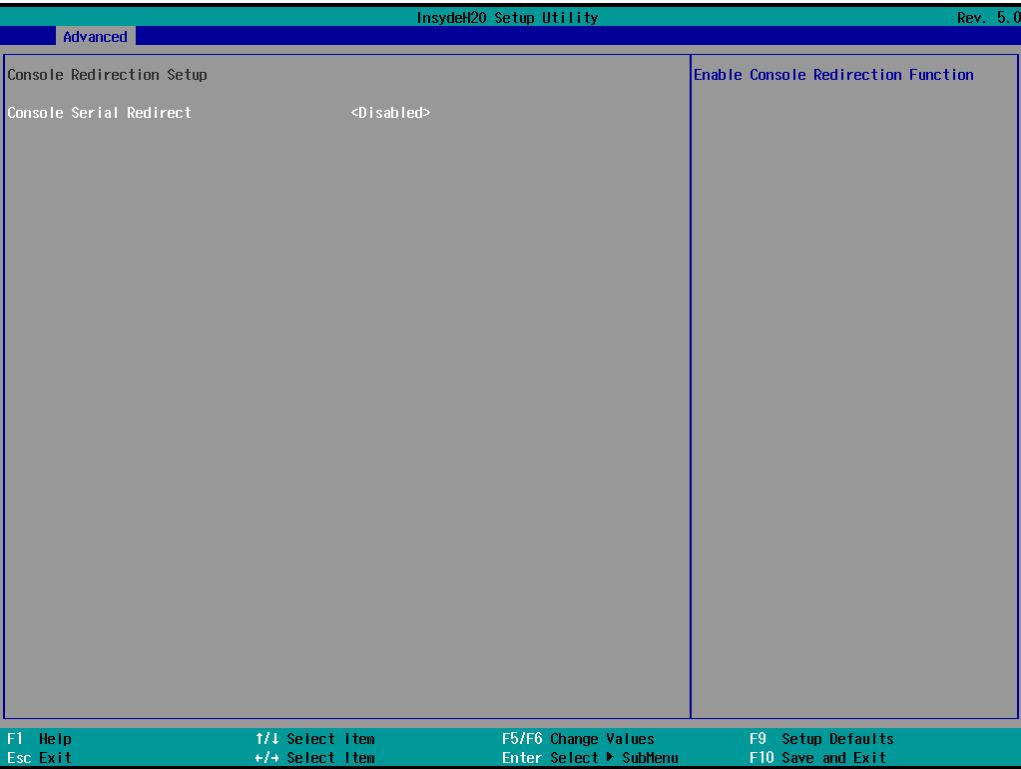
Options: Disabled, Enabled (default)

Unconfigure ME

Unconfigure ME with resetting MEBx password to default.

Console Redirection

This section allows you to configure the console redirection settings.



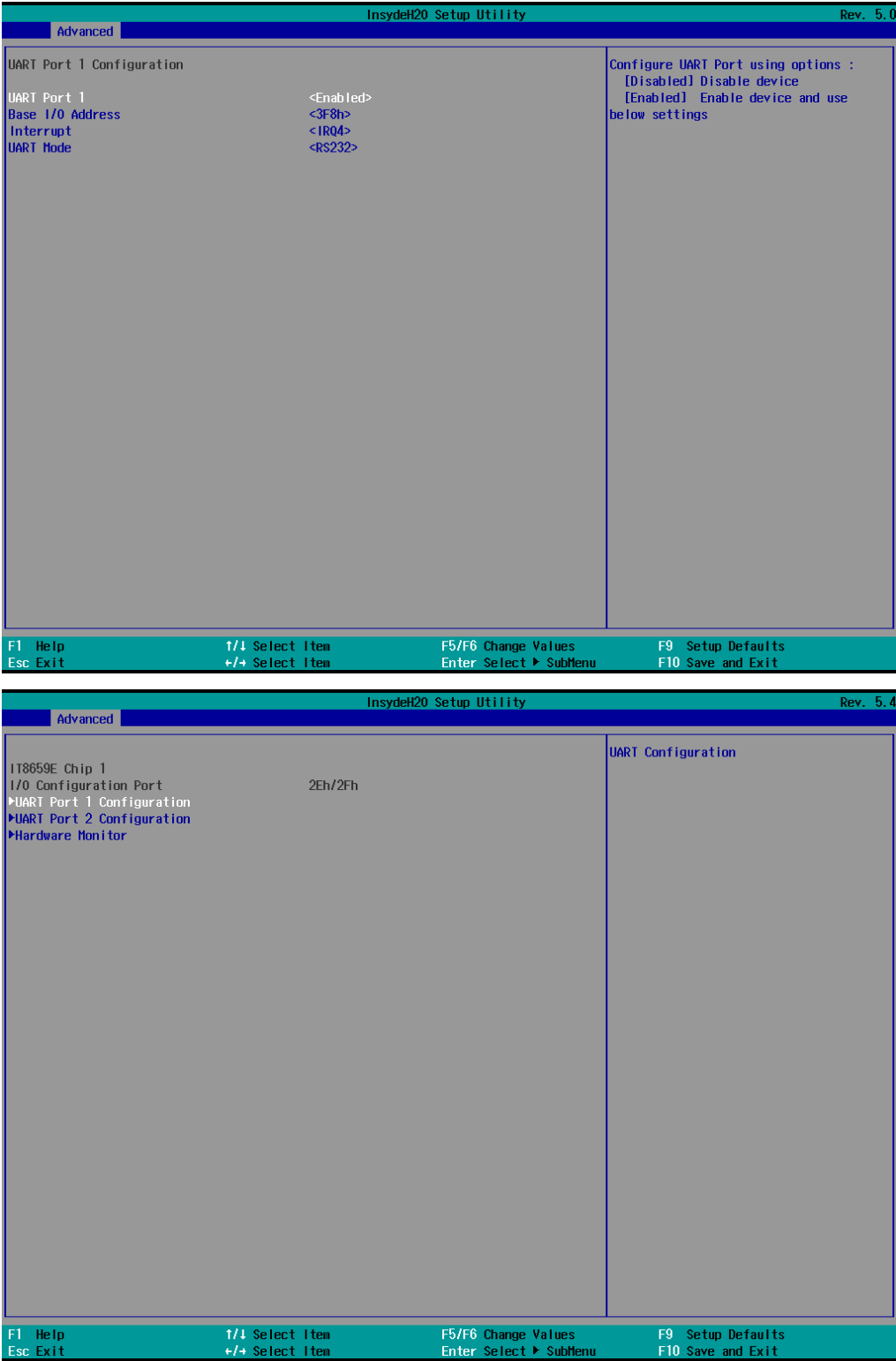
Console Serial Redirect

When the Console Redirection Function is enabled, the console information will be output to both the display monitor and through the serial port.

Options: Disabled (default), Enabled

SIO ITE8786E

This section allows users to configure SIO settings.



UART Port X

This function allows users to configure the resources for the UART port 1.

- Disable: Disable the UART port 1 connection
- Enable: Enable the UART Port 1 connection (default)

Hardware Monitor

This section allows you to view stats such as CPU and system temperature, voltage levels, and other chipset information.

InsydeH20 Setup Utility		Rev. 5.0
Advanced		
Hardware Monitor		
Voltage		
3.3V	3.261 V	
5V	5.079 V	
Temperature		
System (°C/°F)	51.0 °C/ 123.8 °F	
System2 (°C/°F)	40.0 °C/ 104.0 °F	
CPU (°C/°F)	94.0 °C/ 201.2 °F	
F1 Help ↑/↓ Select Item F5/F6 Change Values F9 Setup Defaults		
Esc Exit ←/→ Select Item Enter Select ► SubMenu F10 Save and Exit		

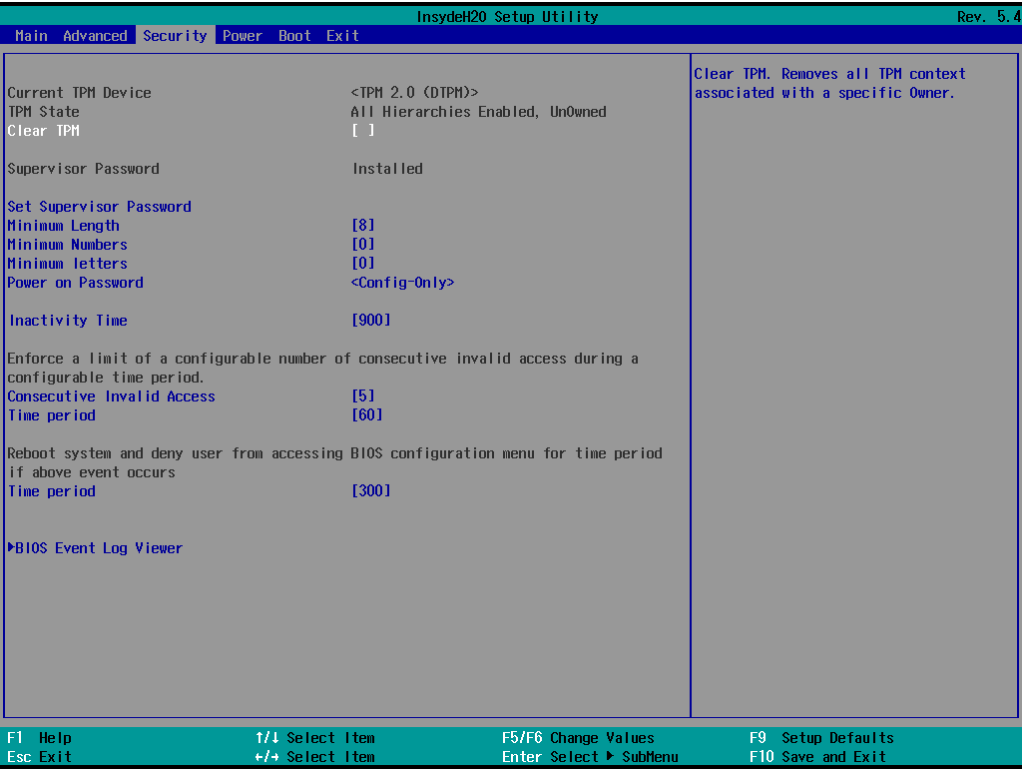
NVM Express Information

This section allows you to view NVMe devices stats such as SN, MN, and storage capacity other storage information.

InsydeH20 Setup Utility		Rev. 5.4
Advanced		
Controller Information		EFI Device Path
EFI Device Path	PciRoot(0x0)/Pci(0x1D,0x0)/Pci(0x0,0x0)	
PCI Location	07:00.0	
Total Namespaces	1	
Serial Number	J517810001	
Model Number	TS128GITE460TI-VS1	
Firmware Revision	X091213	
IEEE OUI	7C-35-48	
Namespace Information		
Namespace ID	1	
IEEE EUI-64	7C-35-48-52-72-E9-0B-51	
Storage Capacity	128.03 GB	
F1 Help ↑/↓ Select Item F5/F6 Change Values F9 Setup Defaults		
Esc Exit ←/→ Select Item Enter Select ► SubMenu F10 Save and Exit		

Security Settings

This section allows users to configure security-related settings with a supervisor password.



Current TPM Device

This item shows if the system has TMP device and its type.

TPM State

This item allows you view the status of current TPM settings.

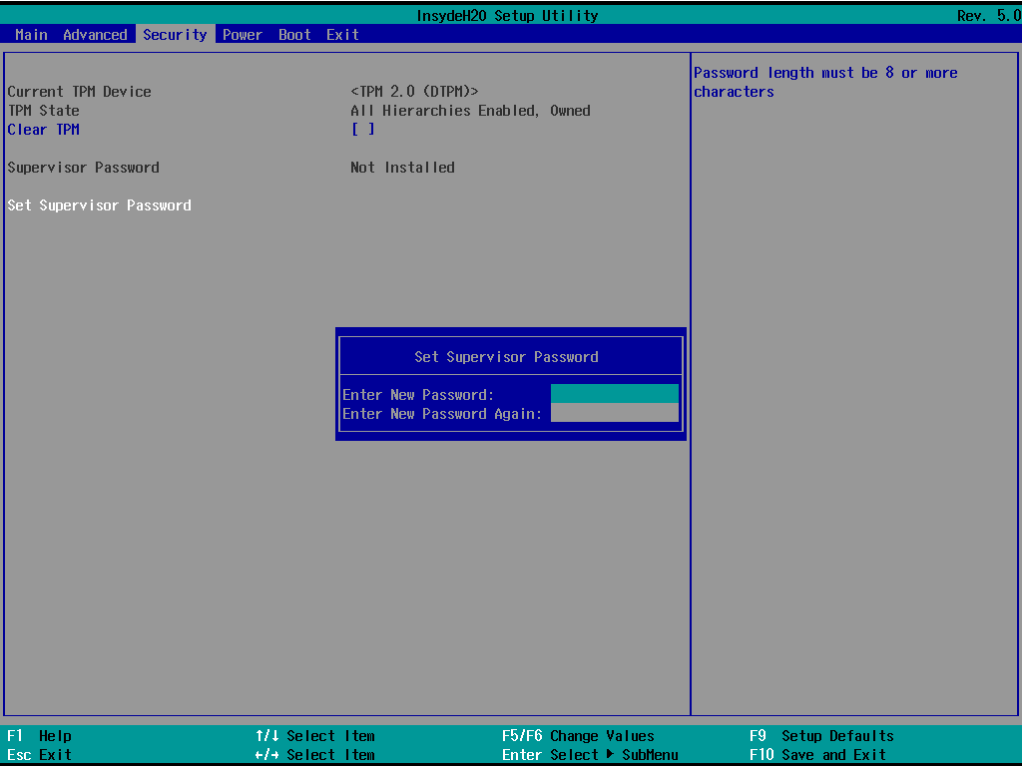
Clear TPM

This item allows users to remove all TPM context associated with a specific owner.

Set Supervisor Password

This item allows you to set the supervisor password. Select the **Set Supervisor Password** option and enter the password and confirm the password again.

To delete the password, select the **Set Supervisor Password** option and enter the old password; leave the new password fields blank, and then press enter.



After setting the supervisor password, users can choose when the input password screen should be displayed.

Minimum Length (Secure Model)

Minimum password length, min value is 6

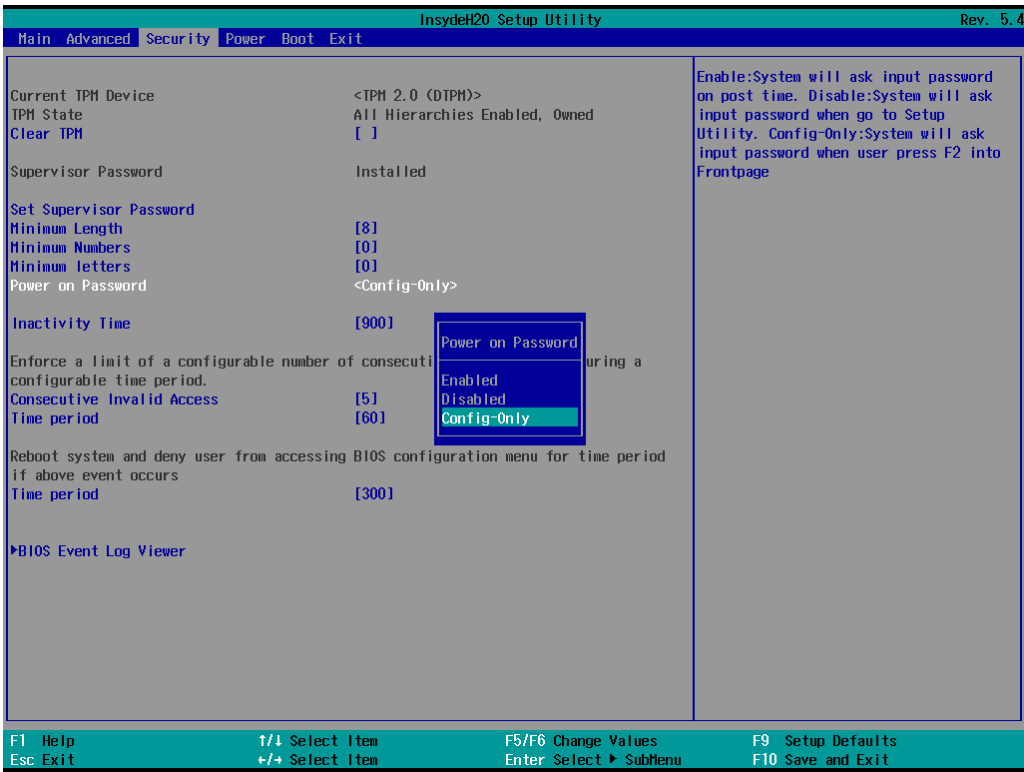
Minimum Numbers (Secure Model)

At least x number, x is 0~16

Minimum letters (Secure Model)

At least y letter including lowercase or uppercase, y is 0~16

Power on Password



Enable: System will ask for the password on post time

Disable: System will ask for the password to go to the setup utility

Config-Only: System will only ask for the password when you select the config (F2) option

Inactivity Time (Secure Model)

Auto reboot when a threshold of inactivity time in BIOS menu is reached. When setting the time to 0s, it will disable the inactivity check.

Consecutive Invalid Access (Secure Model)

Enforce a limit of a configurable number of consecutive invalid access during a configurable time period.

Set the number of consecutive invalid access (0~5), when set to 0 disable this function.

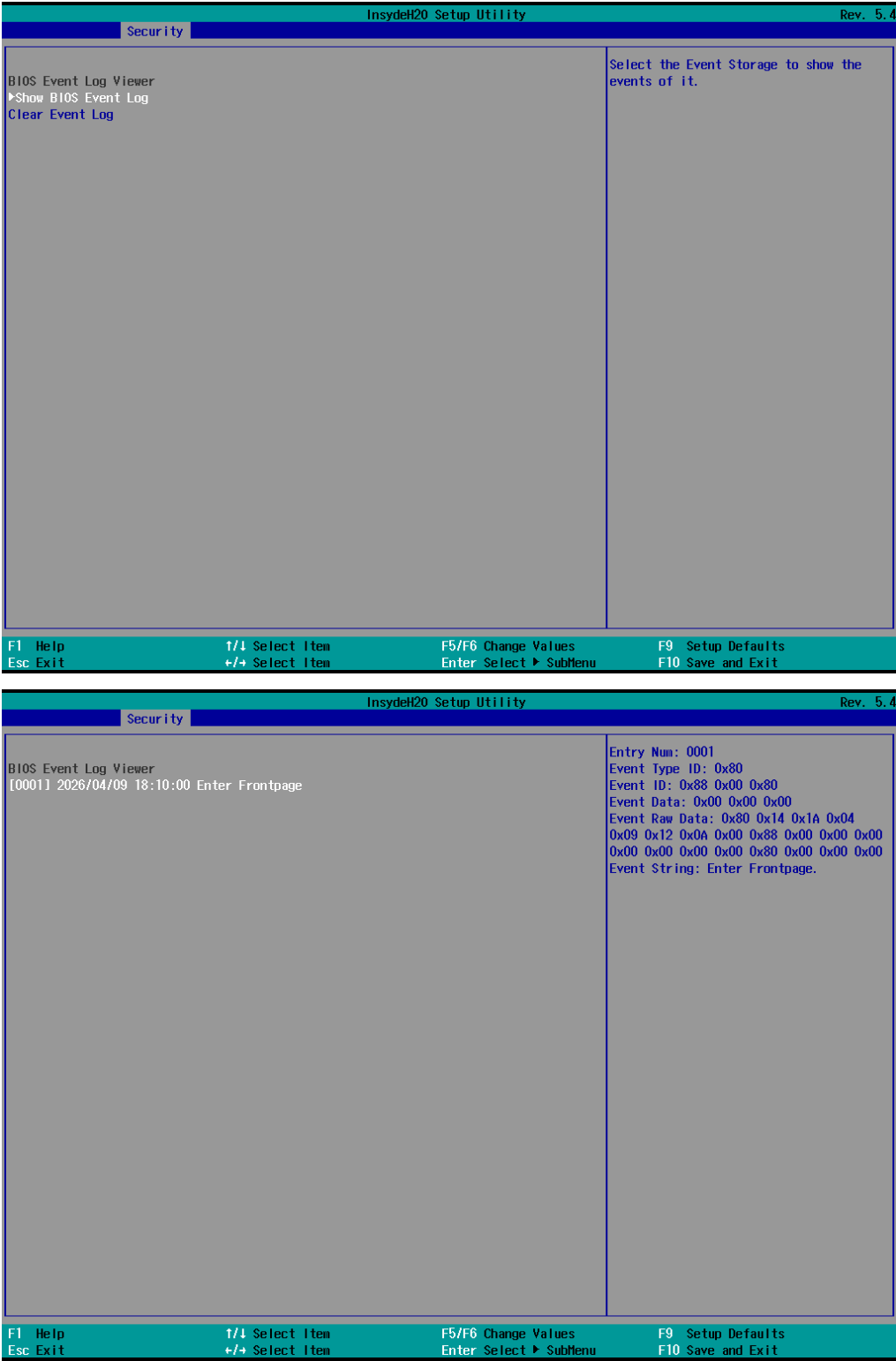
Set a time period (0~60), when set to 0 disable this function.

Time period (Secure Model)

Reboot system and deny user from accessing BIOS configuration menu for time period if above event occurs.

Set a time period (0~900), when set to 0 disable this function.

BIOS Event Log Viewer (Secure Model)



Show BIOS Event Log (Secure Model)

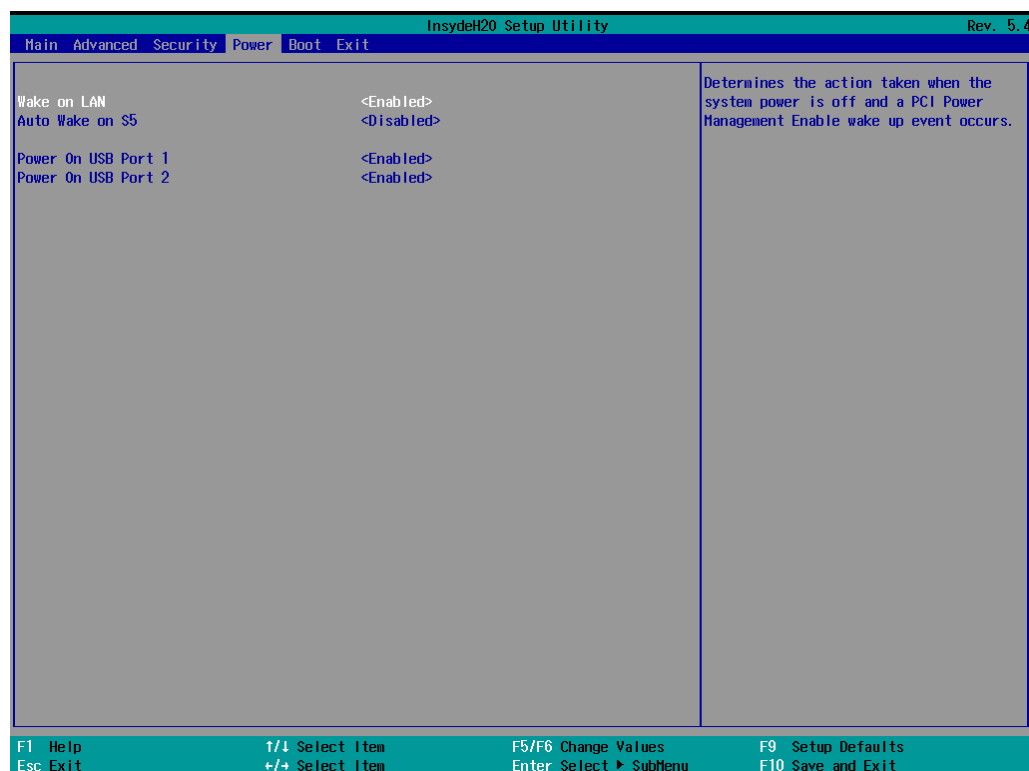
Show the events in BIOS.

Clear Event Log (Secure Model)

Clear the events in BIOS.

Power Settings

The section allows users to configure power settings.



Wake on LAN

This feature is used to wake the system by a LAN device from a remote host.

Options: Enabled (default), Disabled

Auto Wake on S5

This item allows you to configure the computer to wake from S5 status. S5 stands for Soft Off, where the PSU remains engaged but power to all other parts of the system is cut. Auto-wake on S5 schedules a soft-reboot at certain periodic times that may be specified in the BIOS.

Options: Disabled (default); By Every Day (user specifies a regular daily time when the computer will power up); By Day of Month (user specifies a regular day each month when the computer will power up)

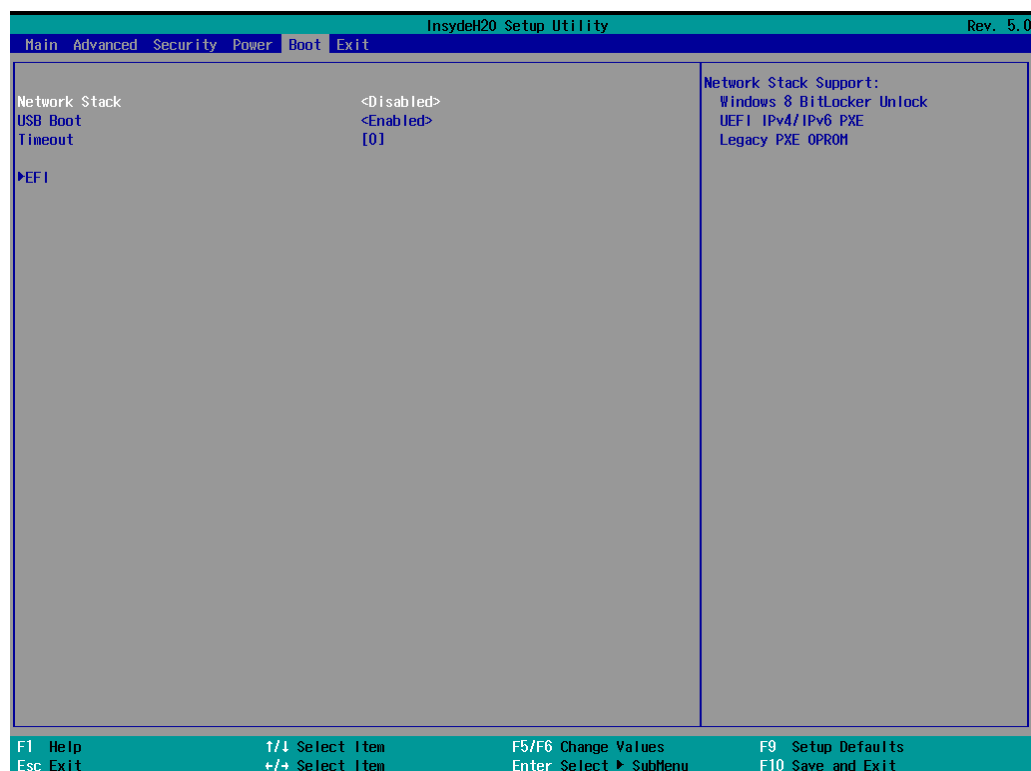
Power On USB Port X

This item allows users to power on or power off the USB ports.

Options: Disabled, Enabled (default)

Boot Settings

The section allows users to configure boot settings.



NOTE

If you do not add any storage, you will not see the EFI option.

Network Stack

It deploys an Internet Protocol (IP) stack. The IP stack provides an application library to open/close connections to remote devices and send/receive data between the remote devices.

Options: Disabled (default), Enabled

PXE Boot capability

This item will be shown only when you have enabled the Network Stack.

PXE Booting is booting a system over a network. This item allows users to start PXE over IPv4 or IPv6

Options: Disabled (default), UEFI: IPv4, UEFI: IPv6, UEFI: IPv4/IPv6

USB Boot

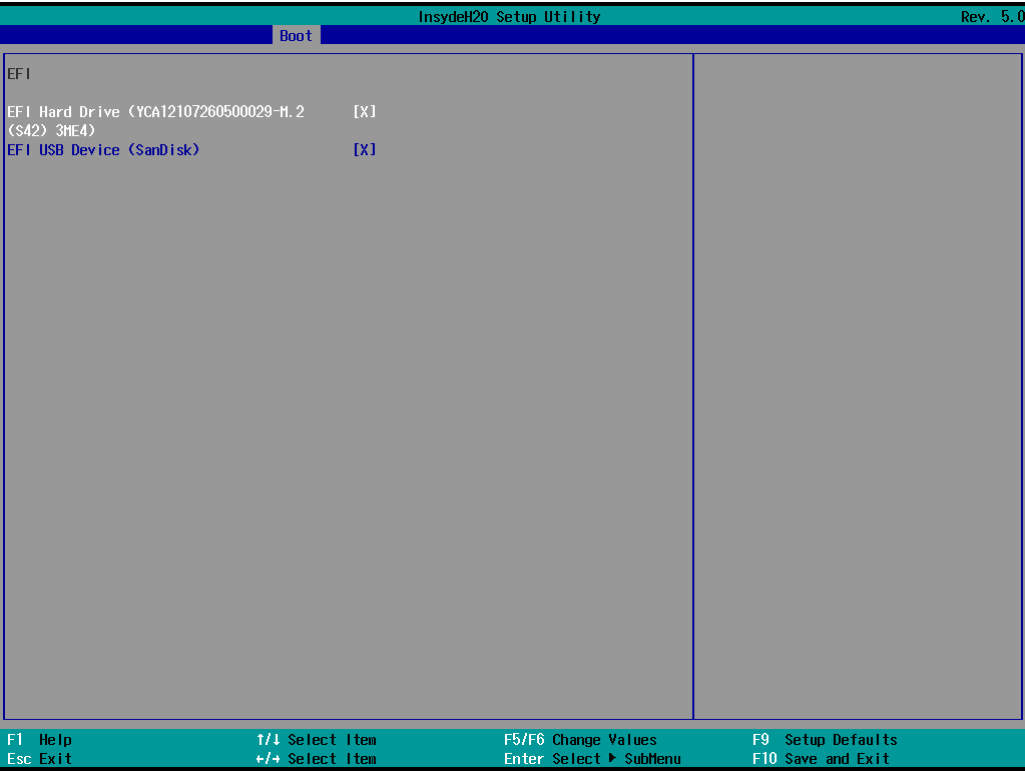
Set booting to USB boot devices capability.

Options: Enabled (default), Disabled

Timeout

Set This item allows users to set the number of second that the firmware will wait before booting the original default boot selection.

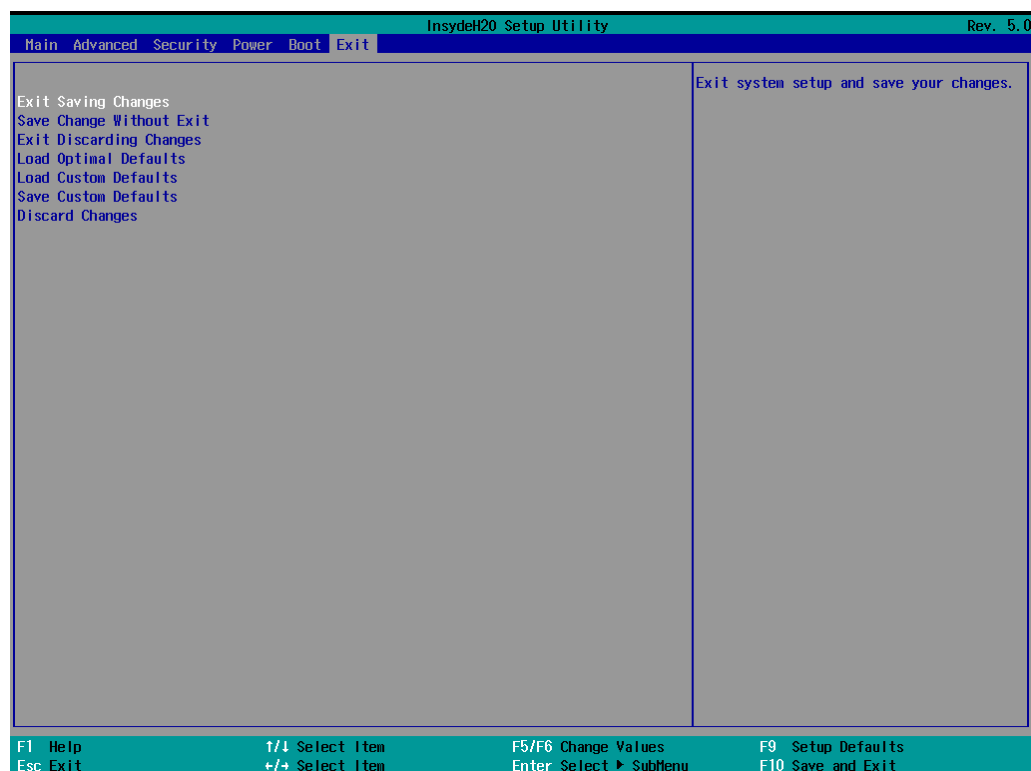
EFI



This item allows users to select the boot order. Use F5 (move down) or F6 (move up) to change the value

Exit Settings

The section allows users to exit the BIOS environment.



Exit Saving Changes

This item allows you to exit the BIOS environment and save the values you have just configured.

Options: Yes (default), No

Save Change Without Exit

This item allows you to save changes without exiting the BIOS environment.

Options: Yes (default), No

Exit Discarding Changes

This item allows you to exit without saving any changes that might have been made to the BIOS.

Options: Yes (default), No

Load Optimal Defaults

This item allows you to revert to the factory default BIOS values.

Options: Yes (default), No

Load Custom Defaults

This item allows you to load custom default values for the BIOS settings.

Options: Yes (default), No

Save Custom Defaults

This item allows you to save the current BIOS values as a “custom default” that may be reverted to at any time by the load custom defaults selection.

Options: Yes (default), No

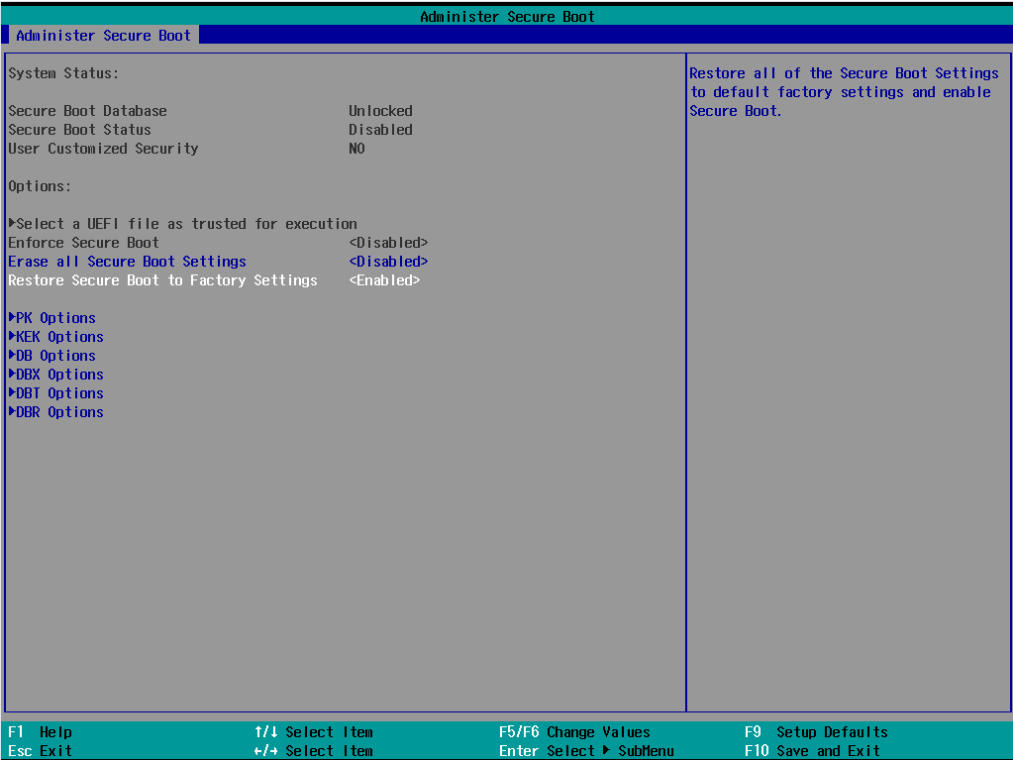
Discard Changes

This item allows you to discard all settings you have just configured.

Options: Yes (default), No

Administering Secure Boot (Standard Model)

Press F2 to go to the Administer Secure Boot.



Secure Boot helps computers resist attacks and infection from malware. The feature defines an interface between the operating system and BIOS. It detects tampering with boot loaders, key operation system files, and unauthorized option ROMs by validating their digital signatures.

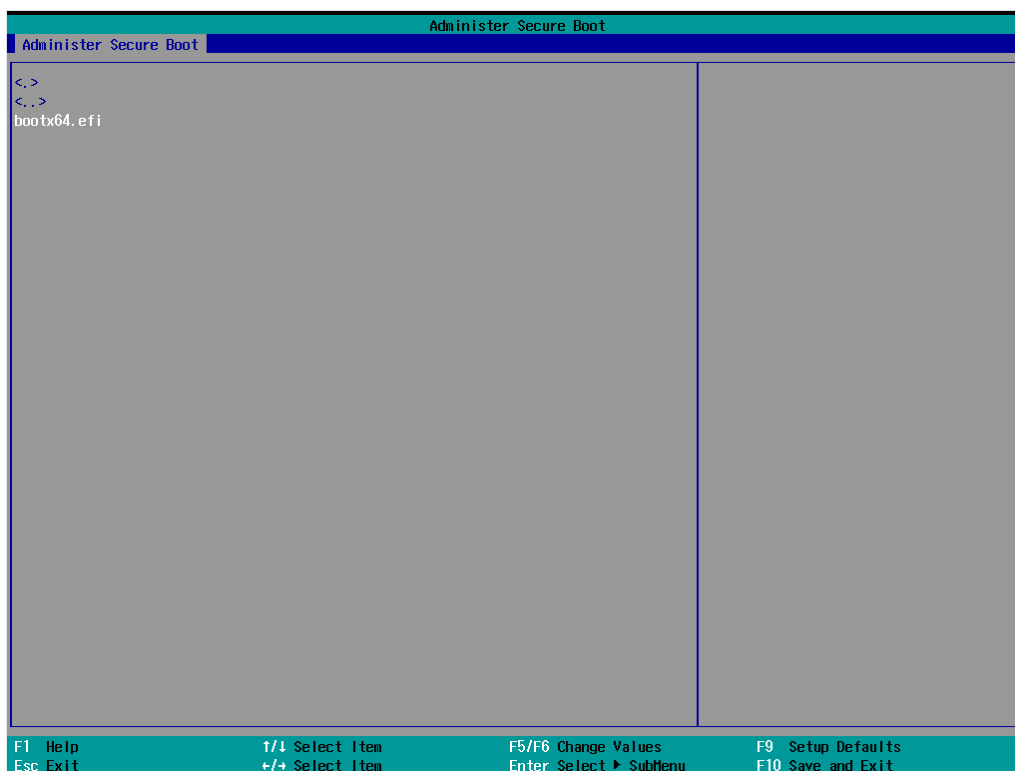
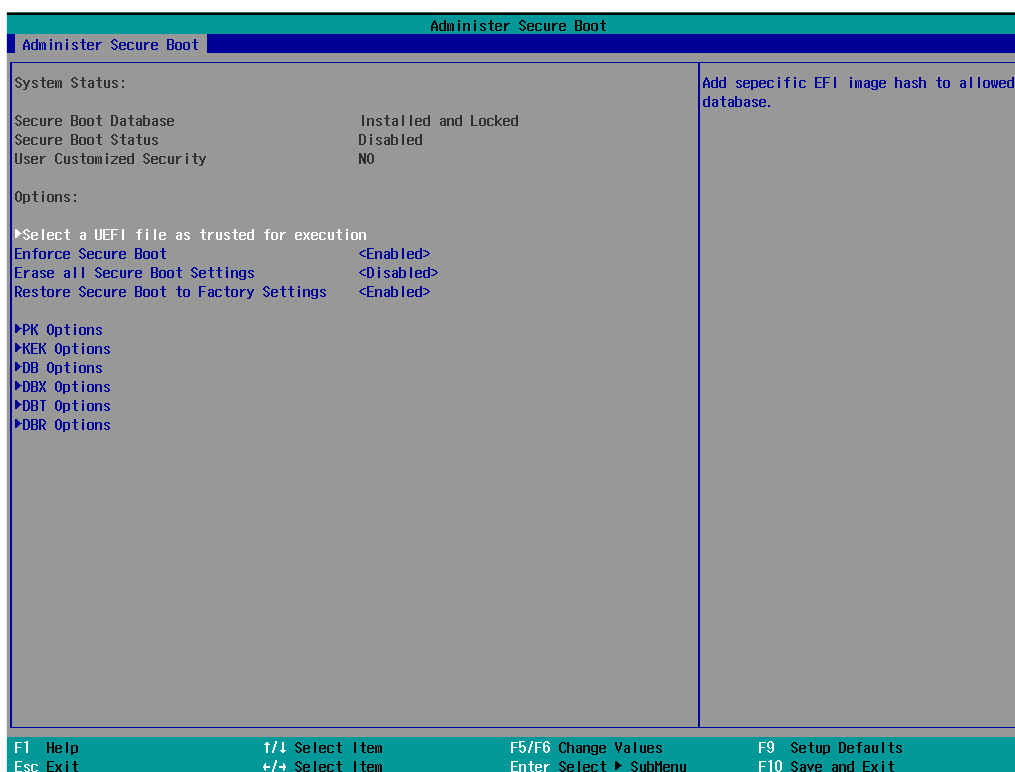
Enabling UEFI Secure Boot

Set as “enabled” in “Restore Secure Boot to Factory Settings” under Administer Secure Boot menu. Press F10 as save and exist.



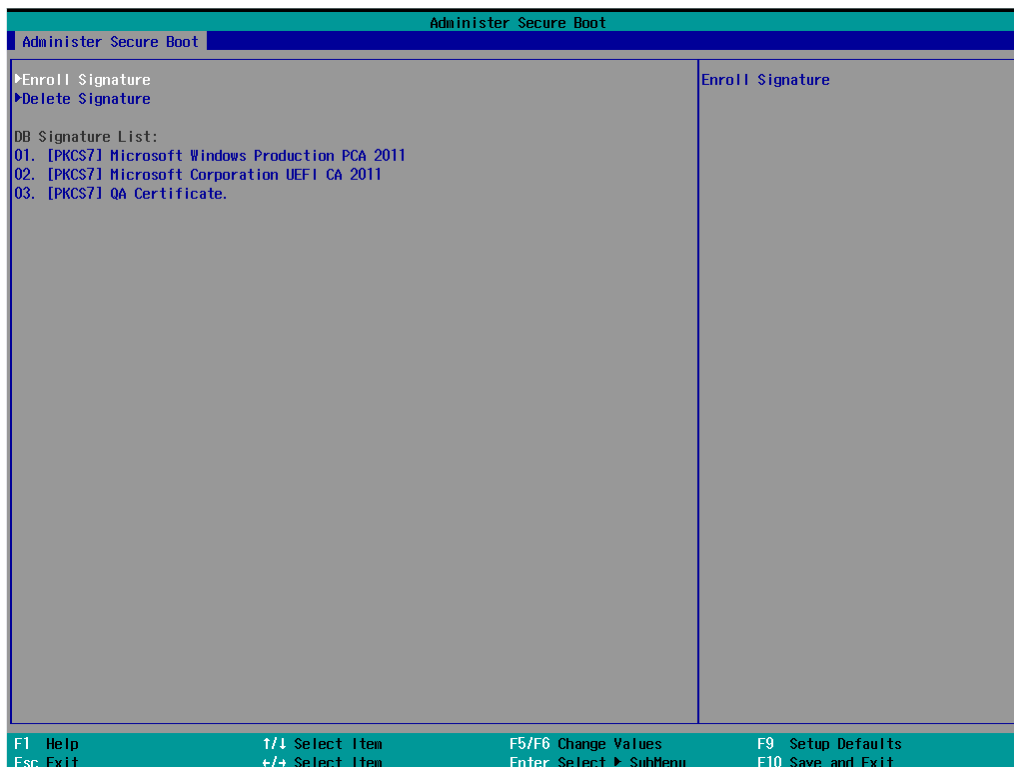
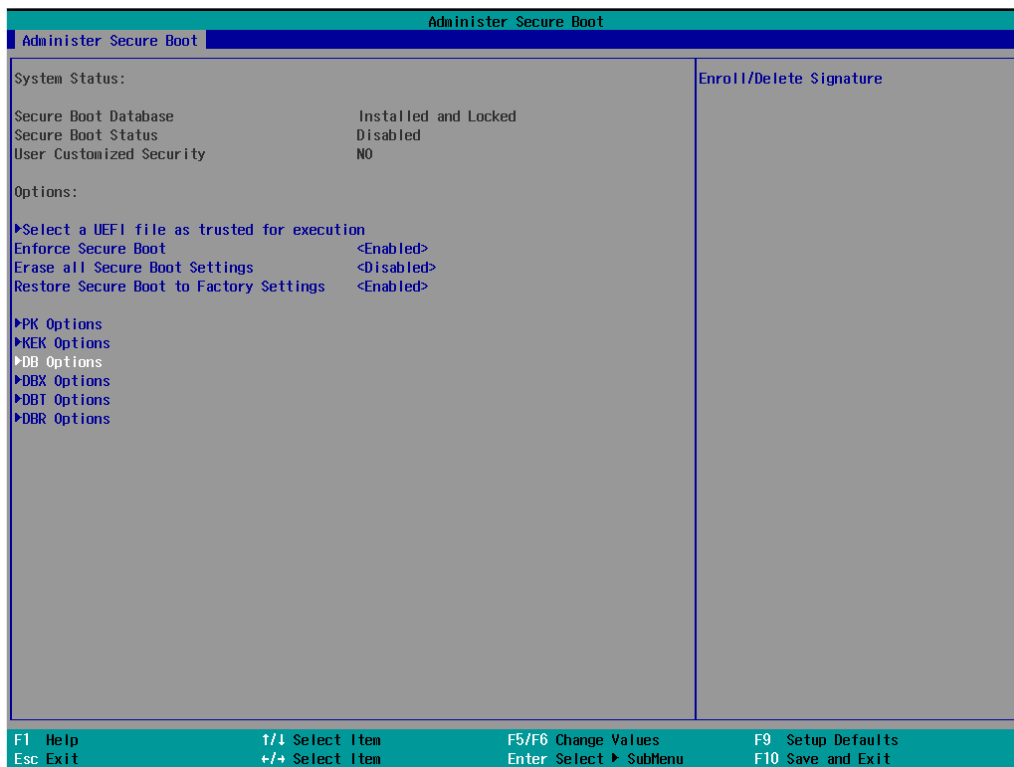
Moxa has put Microsoft key in BIOS in default; if users cannot boot up by “Non Windows OS”, use the following example.

Enroll EFI Image



Enter "Administer Secure Boot" once again and see "Select a UEFI file as trusted for execution", put loader into the database named and followed by the UEFI standard \EFI\BOOT\BOOT{machine type short-name}. E.g., efi\boot\BootX64.efi, Debian (EFI\debian\grubx64.efi), Suse (EFI\opensuse\grubx64.efi)

Enroll Customer Key



Enter "DB OPTION" and enroll your key. Please make sure your key is CRT format and uses RSA 2048 or better.

Upgrading the BIOS

This section describes how to upgrade the BIOS on your computer.



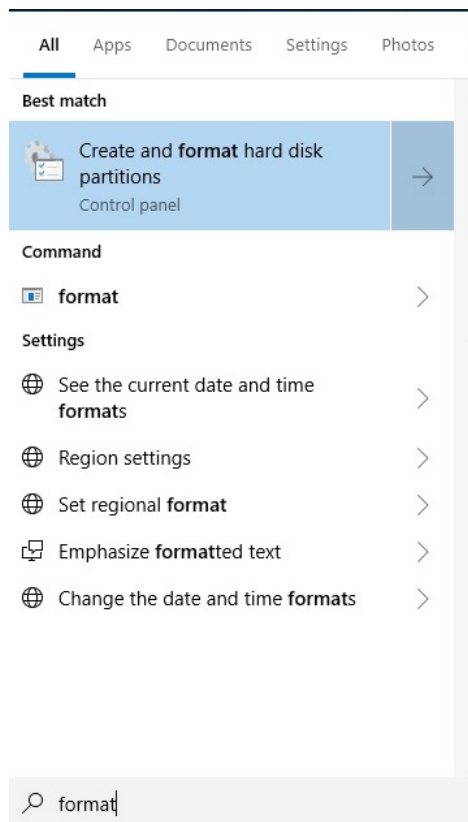
NOTE

It is possible to permanently damage the computer when upgrading the BIOS. We strongly recommend that you contact Moxa's technical support staff for assistance to obtain all the necessary tools and the most current advice before attempting to upgrade the BIOS on any Moxa device.

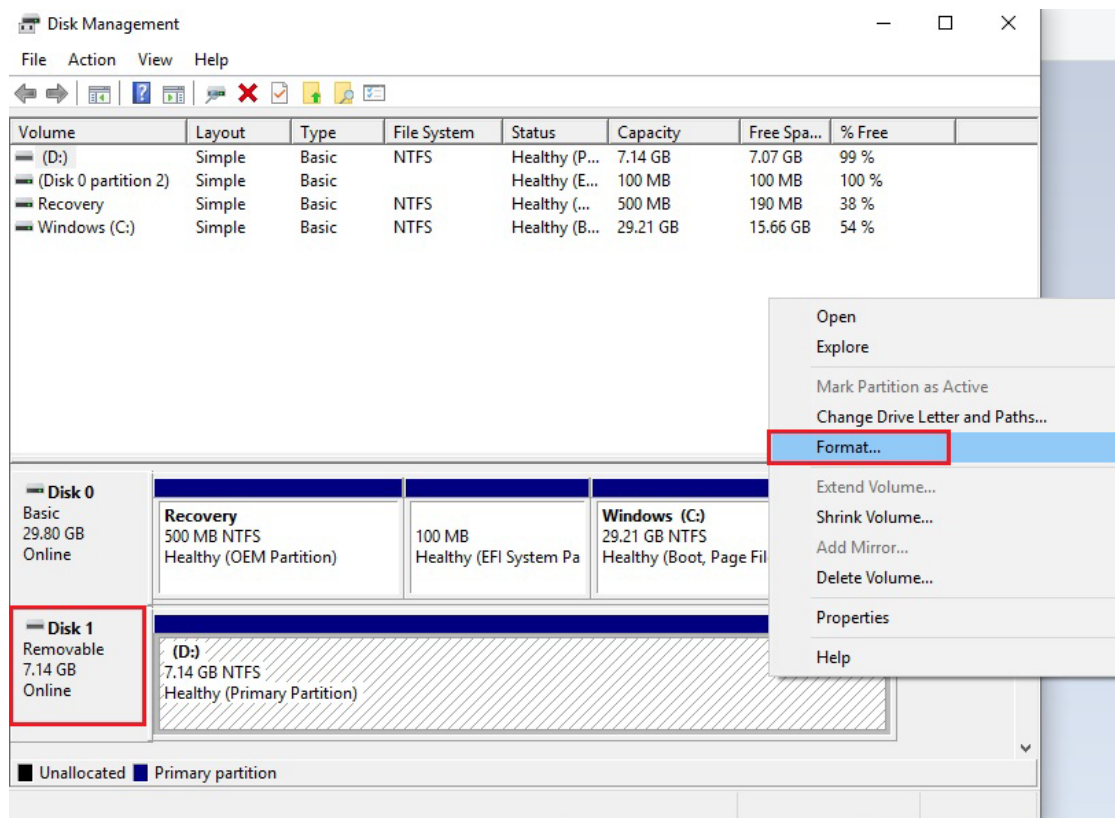
Step 1: Create a FAT32 format USB Disk

Before upgrading the BIOS, you must create a FAT32 format USB drive for use in the future.

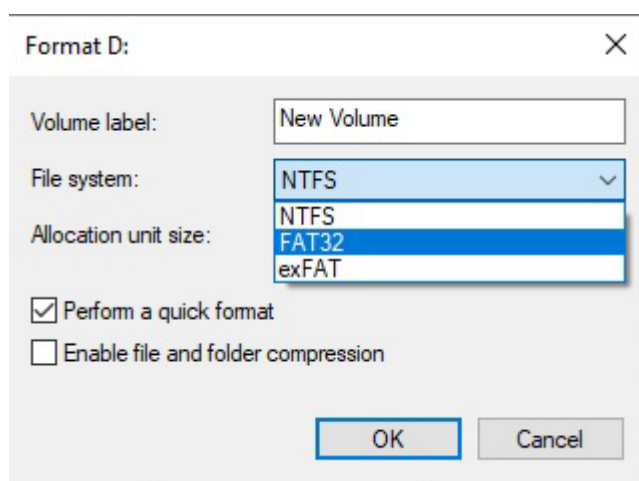
1. Insert a USB disk in the computer's USB drive.
2. Search for "format" and select **Create and format hard disk partitions**.



3. Right-click on the USB disk item and select **Format**.



4. Select **FAT32** and click **OK** to start formatting the disk.

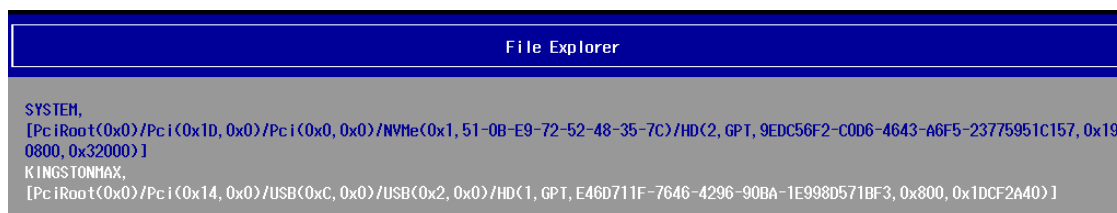


Step 2: Prepare the Upgrade File

You must use the BIOS upgrade installation file to upgrade the BIOS. Contact Moxa's technical department for assistance. The BIOS upgrade file is a **xxxx.efi** file. Copy the **xxxx.efi** file to the USB disk.

Step 3: Run the Upgrade Program on Your Computer

1. Reboot the computer with the USB disk and press F2 to go to the **Boot From File** page.
2. Select the USB Disk. If the BIOS cannot recognize the USB drive, the USB drive might not have a partition table. Use the Windows command line tool **diskpart** to rebuild the partition table.



3. Go to the directory where the upgrade file is located, and select **xxxx.efi** (the file name is based on the upgrade file from Moxa).

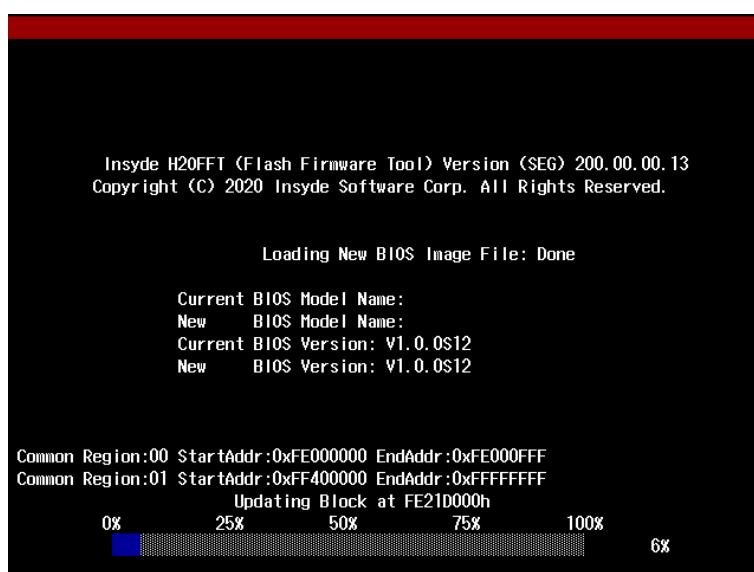


4. Wait until the upgrade procedure is completed.

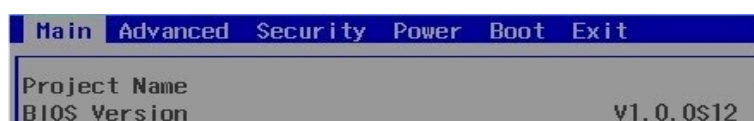


ATTENTION

Do NOT switch off the power supply during the BIOS upgrade, since doing so may cause the system to crash.



When the upgrade is finished, the computer will automatically reboot. You can check BIOS version on the Main page to confirm the upgrade.



A. Regulatory Approval Statement



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Class A: FCC Warning! This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



European Community



WARNING

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This device and its antenna must not be co located or operating in conjunction with any other antenna or transmitter.