



MODEL:
POCi-W22/24C-RPL

**Medical Panel PC with 13th Gen. Intel® Core™ i5/i7 CPU,
Up to 64 GB DDR5 RAM, P-CAP Touchscreen, HDIM Output,
M.2, COM, USB Type-C, Wi-Fi 6E, Dual 2.5GbE, Audio and RoHS**

User Manual



Revision



Date	Version	Changes
March 1, 2024	1.00	Initial release



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Manual Conventions



WARNING

Warnings appear where overlooked details may cause damage to the equipment or result in personal injury. Warnings should be taken seriously.



CAUTION

Cautionary messages should be heeded to help reduce the chance of losing data or damaging the product.



NOTE

These messages inform the reader of essential but non-critical information. These messages should be read carefully as any directions or instructions contained therein can help avoid making mistakes.

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Chapter

1

Introduction

1.1 Overview



Figure 1-1: POCi-W22/24C-RPL Medical Panel PC

The POCi-W22/24C-RPL is an 13th generation Intel® Core™ i7-1370PE / Core™ i5-1340PE processor powered medical-grade panel PC with a rich variety of functions and peripherals. All POCi-W22/24C-RPL models are designed for easy and simplified integration into point-of-care (POC) applications. The system supports a maximum of 64 GB DDR5 memory ensuring smooth data throughputs with reduced bottlenecks and fast system access.

Two RS-232 DB-9 serial ports, one USB Type-C port, four USB 3.2 Gen 2 ports and two USB 2.0 ports provide simplified connectivity to a variety of external peripheral devices. Wi-Fi 802.11ax high efficiency wireless and two RJ-45 2.5GbE connectors allow for smooth connection of the system to an external LAN.



NOTE:

The POCi-W22/24C-RPL medical panel PC is intended to be used to display general purpose medical images. The device shall not be used for diagnosis purpose or life supporting system.

POCi-W22/24C-RPL Medical Panel PC

1.2 Model Variations

There are four models in the POCi-W22/24C-RPL series. All models are preinstalled with an 802.11ax Wi-Fi 6E module. The model numbers and model variations are listed below.

	Size	CPU
POCi-W22-RPL-i5/PC	21.5"	Intel® Core™ i5-1340PE
POCi-W22-RPL-i7/PC	21.5"	Intel® Core™ i7-1370PE
POCi-W24-RPL-i5/PC	23.8"	Intel® Core™ i5-1340PE
POCi-W24-RPL-i7/PC	23.8"	Intel® Core™ i7-1370PE

Table 1-1: Model Variations

1.3 Features

The POCi-W22/24C-RPL features are listed below:

- FHD IPS panel with chemical etching AG coating, and optional DICOM preset module
- Projected capacitive type touchscreen allows 10-point multi-touch
- Intel® Core™ i7-1370PE / Core™ i5-1340PE processor
- Support DDR5 memory (system max. 64 GB)
- Support two M.2 NVMe and RAID function
- Dual reading light
- Two 2W internal speakers
- Built-in 150W power supply
- One HDMI port supports an additional display
- Two 2.5GbE RJ-45
- 802.11ax Wi-Fi 6E high efficiency wireless
- Four USB 3.2 Gen 2 ports (10Gb/s) and one USB Type-C port
- Two RS-232 DB-9



1.4 Front Panel

The front side of the POCi-W22/24C-RPL is a flat-bezel panel with a TFT LCD screen surrounded by an aluminum frame (**Figure 1-2**).

The bottom surface contains several backlit touch buttons, a power indicator and an optional RFID reader.

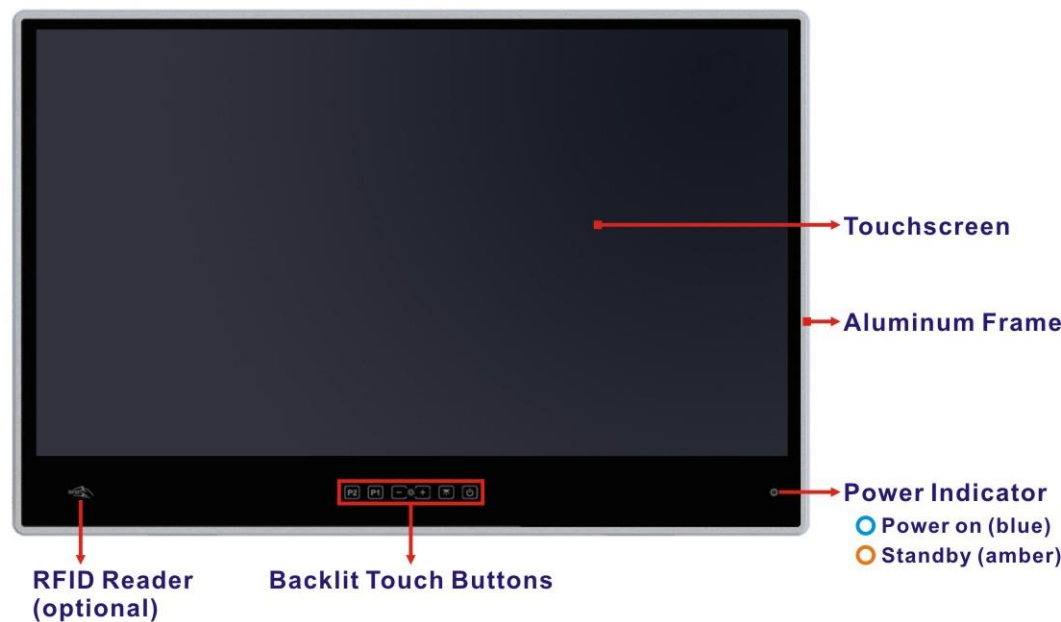


Figure 1-2: Front View



POCi-W22/24C-RPL Medical Panel PC

1.4.1 Backlit Touch Buttons

The front panel of the POCi-W22/24C-RPL contains several backlit touch buttons that control reading light, LCD brightness and some other system components.



Figure 1-3: Backlit Touch Buttons

The following table describes the function of each button.

Button	Function
	Power on/off: Long-press for 2 seconds to power on the system.
	Reading light on/off: Short-press (over 0.5 second) to turn on/off the reading light.
	— : Brightness down (minimum brightness: 5%) + : Brightness up (maximum brightness: 100%) Short-press (over 0.5 second) for increasing / decreasing brightness 5%. Long-press (over 1.5 seconds) for increasing / decreasing brightness 10%.
	LCD & touch lock on/off: Long-press for 2 seconds to turn on/off the LCD and the touch function. <i>*The touch buttons blink and lock (except P1) when the LCD is off. The touch function is also locked in this mode.</i>
	DICOM mode on/off: Short-press (over 0.5 seconds) to turn on/off the DICOM mode. <i>*The P2 button is activated only when the optional DICOM module is installed. The touch buttons blink and lock (except P2) when the DICOM mode is on. The touch function is also locked in this mode.</i>

Note: Press the touch button for at least 0.5 second to activate it.

1.5 Bottom Panel

The bottom panel of the POCi-W22/24C-RPL has the following connectors and components (**Figure 1-4**):

- 1 x AC power inlet
- 1 x HDMI output connector
- 2 x 2.5GbE RJ-45
- 2 x RS-232 DB-9 serial port
- 1 x USB Type-C connector
- 4 x USB 3.2 Gen 2 connector (10Gb/s)
- 1 x Audio-out and mic-in combo connector
- 1 x Clear CMOS button
- 1 x AT/ATX power mode switch
- 1 x Reset button
- 2 x 2 W speaker
- 2 x LED reading light
- 1 x Equipotentiality conductor (*Note: When connected together, bring the various parts of an equipment or of a system to the same potential.*)

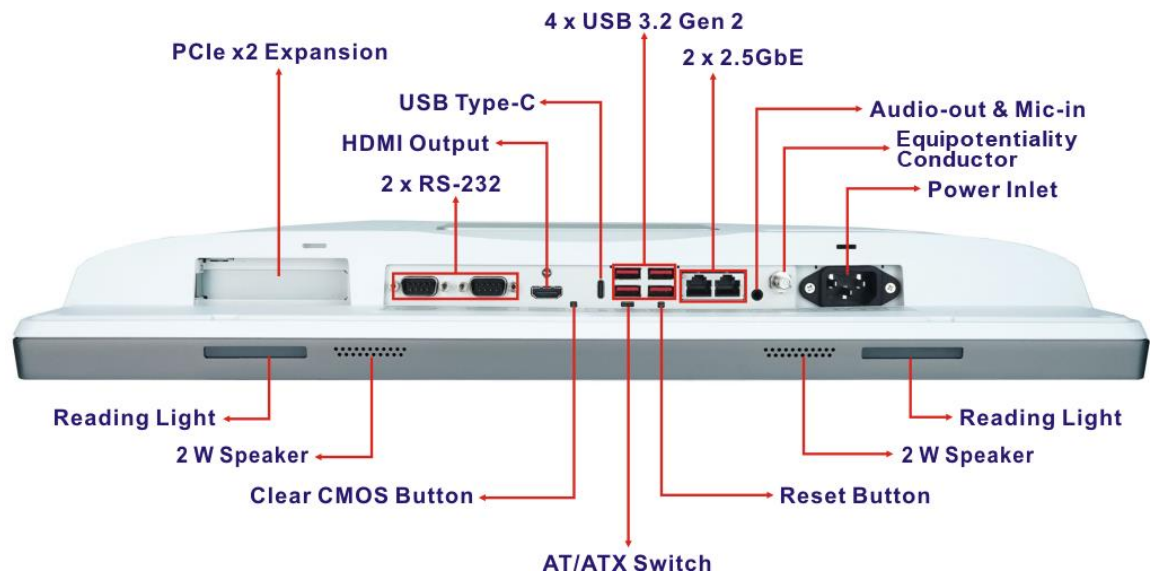


Figure 1-4: Bottom Panel

POCi-W22/24C-RPL Medical Panel PC

1.6 Side Panels

The right side panel has two USB 2.0 ports protected by a cover, and a power button.

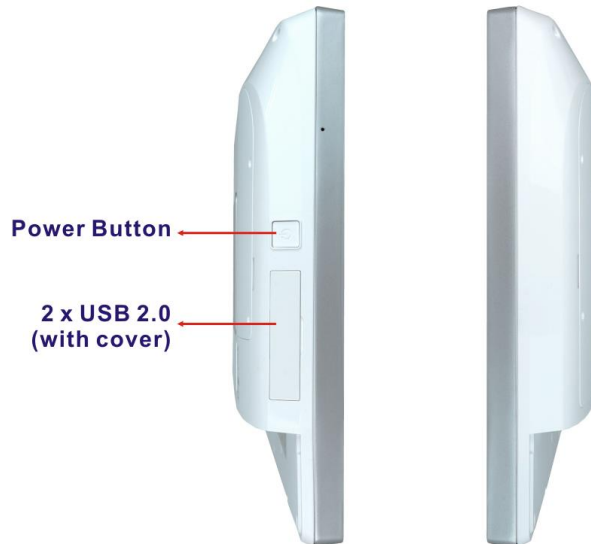


Figure 1-5: Side View

1.7 Rear Panel

The rear panel contains the retention screw holes that support VESA 75/100 mounting (**Figure 1-6**). M.2 M-key modules and PCIe x2 expansion card can be installed by removing the covers located on the rear panel.

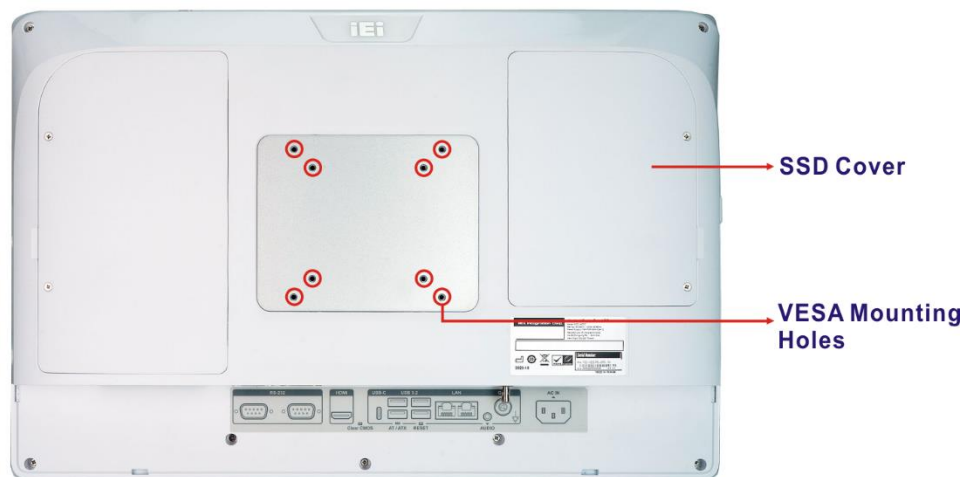


Figure 1-6: Rear View



1.8 System Specifications

The technical specifications for the POCi-W22/24C-RPL systems are listed below.

	POCi-W22C-RPL	POCi-W24C-RPL
LCD Size	21.5" (16:9)	23.8" (16:9)
Max. Resolution	1920 (W) x 1080 (H)	1920 (W) x 1080 (H)
Brightness (cd/m²)	350	350
Contrast Ratio	1000:1	1000:1
LCD Color	16.7M RGB 8-bit	16.7M RGB 8-bit
Pixel Pitch (mm)	0.24795 (H) x 0.24795 (V)	0.2745 (H) x 0.2745 (V)
Viewing Angle (H-V)	178°/178°	178°/178°
Backlight MTBF	50,000 hrs (LED backlight)	30,000 hrs (LED backlight)
Touchscreen	Projected capacitive type with USB interface	
Multi-touch	10-point touch	
Touch Controller	EETI	
Surface Hardness	6H	
Coating	Chemical etching AG	
System		
CPU	Intel® Core™ i7-1370PE (code-named Raptor Lake-P) Intel® Core™ i5-1340PE (code-named Raptor Lake-P)	
Memory	2 x 262-pin 4800MT/s dual-channel DDR5 SO-DIMM slots (system max. 64GB)	
GbE Controller	2 x Intel® I226 Ethernet controller	
Wi-Fi and Bluetooth	IEEE 802.11ax 2T2R (Wi-Fi 6E) + Bluetooth v5.2 (via M.2 2230 A-E key module)	
I/O Ports	1 x AC input jack 1 x HDMI output 2 x 2.5GbE LAN (RJ-45) 2 x RS-232 (DB-9)	



POCi-W22/24C-RPL Medical Panel PC

	1 x USB Type-C (DP + USB 5V / 0.9A) 4 x USB 3.2 Gen 2 (10Gb/s, 5V / 0.9A) 2 x USB 2.0 (side panel, 5V / 0.5A) 1 x Audio out / Mic-in combo	
Storage	2 x M.2 2280 M-key slot (PCIe) with RAID	
Audio	2 x 2 W speakers	
Expansion Interface	1 x PCIe x2 slot	
TPM	TPM 2.0 (optional)	
RFID	Mifare RFID reader, 13.56MHz (optional)	
Other Features		
Function Keys	1 x Power on/off 1 x Reading light on/off 1 x Brightness up 1 x Brightness down 1 x LCD & touch lock on/off 1 x DICOM mode button (optional)	
LED	1 x Power indicator 2 x LED reading light 1 x RFID indicator (optional)	
Cooling Method	Fanless	
Physical		
Construction Material	Front bezel: Aluminum Rear cover: ABS+PC plastic	
Mounting	Wall, stand and arm VESA 75 mm x 75 mm or 100 mm x 100 mm	
Dimensions (W x H x D)	507.5 x 335.5 x 64.5 (mm)	567 x 370.6 x 63.9 (mm)
Net Weight	6.9 kg	8.1 kg

Environment		
Storage/Transportation	Temperature	-20°C – 60°C
	Humidity	10% – 95% (non-condensing)
	Pressure	700 hPa – 1060 hPa
Operating	Temperature	0°C – 40°C
	Humidity	10% – 95% (non-condensing)
	Pressure	700 hPa – 1060 hPa
Vibration	1G	
Shock	Operating Shock: 5G peak acceleration (11ms duration) Non-Operating Shock: 10G peak acceleration (11ms duration)	
EMC & Safety	CE, FCC Class B Part 18 IEC 60601-1: 2005+AMD1:2012 (Edition 3.1) IEC 60601-1-2: 2014 (Edition 4.0)	
Built-in Medical Power	150W, medical power supply 100 V AC – 240 V AC, 47 Hz – 63 Hz, 2 A – 0.71 A	
Supported OS	Windows 11, Linux Ubuntu	

Table 1-2: System Specifications

POCi-W22/24C-RPL Medical Panel PC

1.9 Dimensions

The dimensions of the POCi-W22-RPL are shown below.

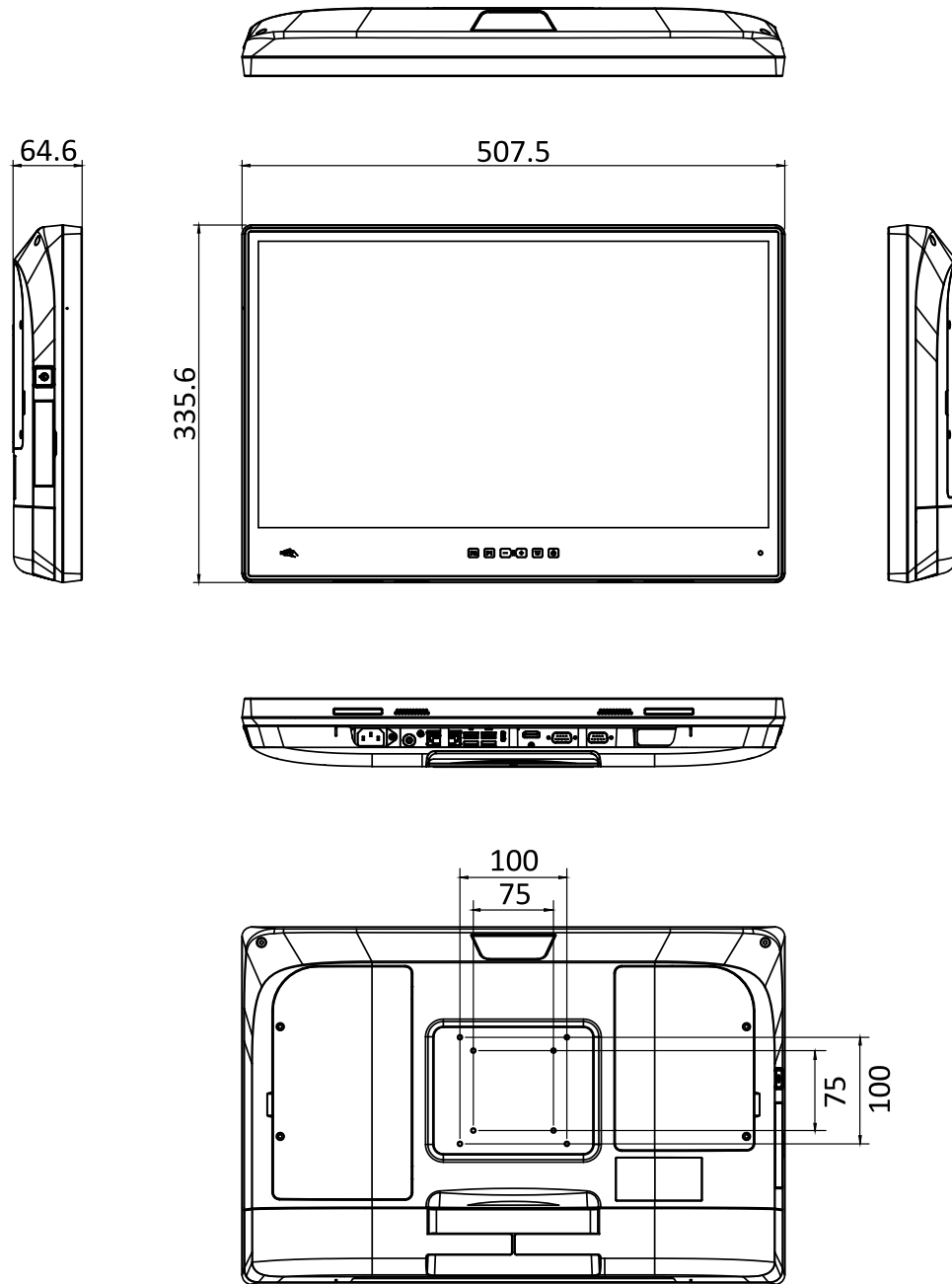


Figure 1-7: POCi-W22-RPL Dimensions (mm)

The dimensions of the POCi-W24-RPL are shown below.

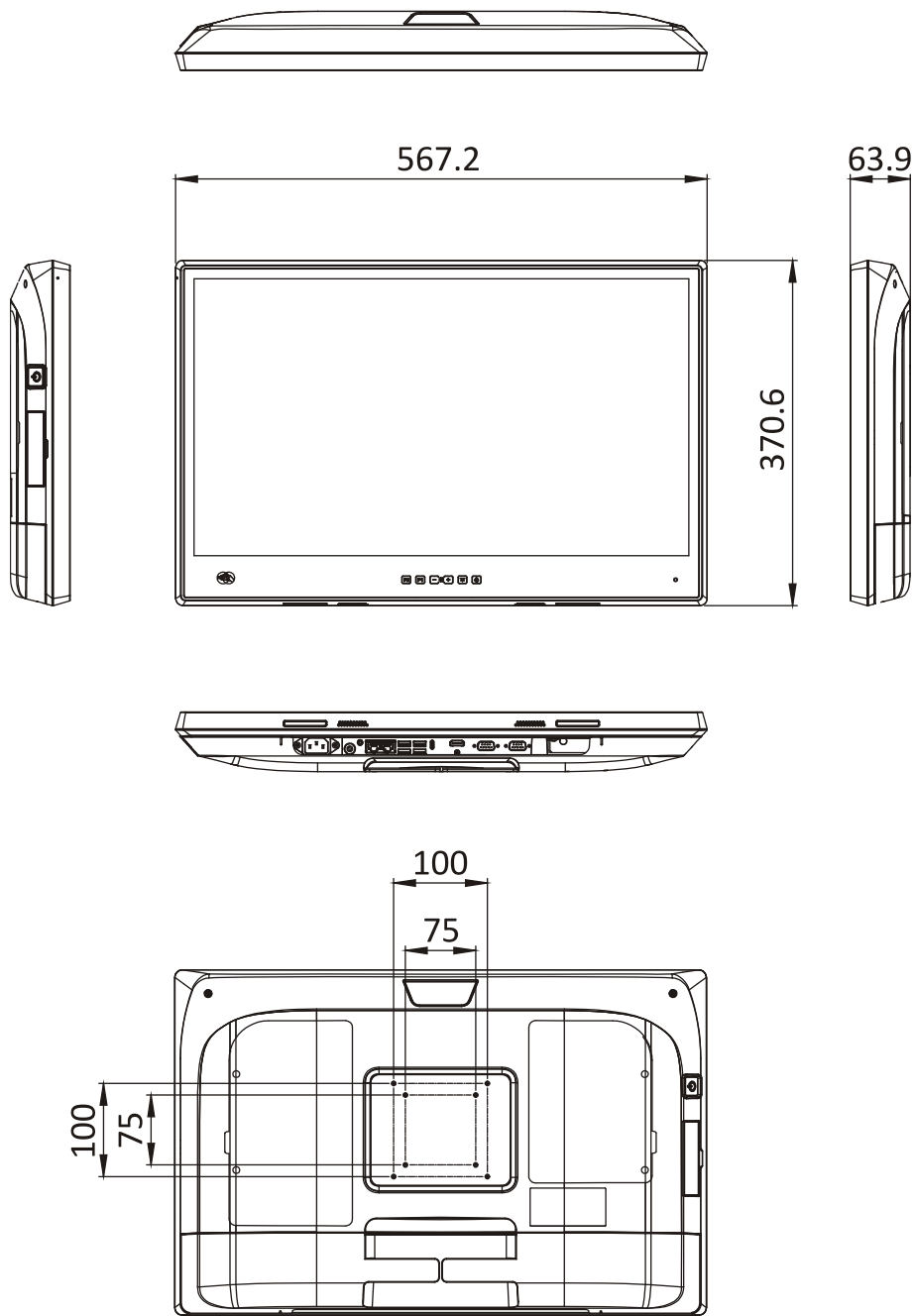


Figure 1-8: POCi-W24-RPL Dimensions (mm)

Chapter

2

Unpacking

2.1 Unpacking

To unpack the medical panel PC, follow the steps below:



WARNING / AVERTISSEMENT

The front side LCD screen has a protective plastic cover stuck to the screen. Only remove the plastic cover after the medical panel PC has been properly installed. This ensures the screen is protected during the installation process.

L'écran LCD avant a un couvercle en plastique de protection collé à l'écran. Retirez le couvercle en plastique uniquement une fois que le Panel PC médical a été correctement installé. Cela garantit que l'écran est protégé pendant le processus d'installation.

-
- Step 1:** Use a sharp tool to slice open the tape that seals the top side of the external (second) box.
 - Step 2:** Open the external (second) box.
 - Step 3:** Use a sharp tool to slice open the tape that seals the top side of the internal (first) box.
 - Step 4:** Lift the panel PC out of the boxes.
 - Step 5:** Remove both polystyrene ends, one from each side.
 - Step 6:** Pull the plastic cover off the medical panel PC.
 - Step 7:** Make sure all the components listed in the packing list are present.

POCi-W22/24C-RPL Medical Panel PC

2.2 Packing List

**NOTE:**

If any of the components listed in the checklist below are missing, do not proceed with the installation. Contact the IEI reseller or vendor the POCi-W22/24C-RPL was purchased from or contact an IEI sales representative directly by sending an email to sales@ieiworld.com.

The POCi-W22/24C-RPL medical panel PC is shipped with the following components:

Quantity	Item	Image
1	POCi-W22/24C-RPL medical panel PC	
1	Power cord (EU, 183cm)*	
	Power cord (US/Canada, 180cm)*	

*Either one; shipped according to the country code of the order.



2.3 Optional ATO Items

The following are optional, assemble-to-order components:

Item	Part Number
RFID reader for POCi-W22C-RPL (13.56MHz and 125KHz dual band)	27765-000003-RS
RFID reader for POCi-W24C-RPL (13.56MHz and 125KHz dual band)	27765-000001-RS
TPM 2.0 module	TPM-IN03-R10
OS image with Windows Embedded Standard 11 E High End 64-bit 2021 for POCi-RPL-i7 Series	POCi-RPL-W11E64-H-R10
OS Image with Windows Embedded Standard 11 E Value 64-bit 2021 for POCi-RPL-i5 Series	POCi-RPL-W11E64-V-R10



Chapter

3

Installation

3.1 Safety Precautions

Please ensure the following safety precautions are adhered to at all times.

- External equipment intended for connection to signal input /output or other connectors, shall comply with relevant UL /IEC standard (e.g. IEC60950 -1/IEC62368 -1 for IT equipment and ANSI/AAMI ES60601-1 AND CAN/CSA-C22.2 No. 60601-1/IEC 60601 series for systems—shall comply with the standard IEC 60601-1, Safety requirements for medical electrical systems. Equipment not complying with UL 60601-1 shall be kept outside the patient environment, as defined in the standard.
- ***Remove the Power cord form A.C. MAINS if it will not to be used for a long time.***
- ***To prevent the risk of electric shock, make sure power cord is unplugged from wall socket.*** To fully disengage the power to the unit, please disconnect the power cord from the ac outlet. Refer servicing to qualified service personnel. The AC outlet shall be readily available and accessible.
- ***Users must not allow SIP/SOPs and the patient to come into contact at the same time.***
- ***Grounding reliability*** can only be achieved when the equipment is connected to an equivalent receptacle marked “Hospital Only” or “Hospital Grade”.
- ***Follow the electrostatic precautions*** outlined below whenever the POCi-W22/24C-RPL is opened.
- ***Make sure the power is turned off and the power cord is disconnected*** whenever the POCi-W22/24C-RPL is being installed, moved or modified.
- ***Do not apply voltage levels that exceed the specified voltage range.*** Doing so may cause fire and/or an electrical shock. Use a power cord that matches the voltage of the power outlet, which has been approved and complies with the safety standard of your particular country.
- ***Electric shocks can occur*** if the POCi-W22/24C-RPL chassis is opened when the POCi-W22/24C-RPL is running. To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.

POCi-W22/24C-RPL Medical Panel PC

- **DO NOT LEAVE THIS EQUIPMENT IN AN UNCONTROLLED ENVIRONMENT WHERE THE STORAGE TEMPERATURE IS BELOW -20° C (-4°F) OR ABOVE 60° C (140° F). IT MAY DAMAGE THE EQUIPMENT.**
- ***Do not drop or insert any objects*** into the ventilation openings of the POCi-W22/24C-RPL.
- ***If considerable amounts of dust, water, or fluids enter the POCi-W22/24C-RPL***, turn off the power supply immediately, unplug the power cord, and contact the POCi-W22/24C-RPL vendor.
- ***Never replace or repair any components on your own.*** If the components of the POCi-W22/24C-RPL fails or malfunctions it must be shipped back to IEI to be repaired. Please contact the system vendor, reseller or an IEI sales person directly.
- **DO NOT:**
 - Drop the POCi-W22/24C-RPL against a hard surface.
 - Strike or exert excessive force onto the LCD panel.
 - Touch any of the LCD panels with a sharp object
 - In a site where the ambient temperature exceeds the rated temperature

3.2 Anti-static Precautions



WARNING / AVERTISSEMENT

Failure to take ESD precautions during the maintenance of the POCi-W22/24C-RPL may result in permanent damage to the POCi-W22/24C-RPL and severe injury to the user.

Le fait de ne pas prendre des précautions contre les décharges électrostatiques pendant la maintenance du POCi-W22/24C-RPL peut entraîner des dommages permanents au POCi-W22/24C-RPL et des blessures graves pour l'utilisateur.

Electrostatic discharge (ESD) can cause serious damage to electronic components, including the POCi-W22/24C-RPL. Dry climates are especially susceptible to ESD. It is therefore critical that whenever the POCi-W22/24C-RPL is accessed internally, or any other electrical component is handled, the following anti-static precautions are strictly adhered to.

- ***Wear an anti-static wristband:*** Wearing a simple anti-static wristband can help to prevent ESD from damaging the board.
- ***Self-grounding:*** Before handling the board, touch any grounded conducting material. During the time the board is handled, frequently touch any conducting materials that are connected to the ground.
- ***Use an anti-static pad:*** When configuring the POCi-W22/24C-RPL, place it on an anti-static pad. This reduces the possibility of ESD damaging the POCi-W22/24C-RPL.

POCi-W22/24C-RPL Medical Panel PC

3.3 Installation Precautions

When installing the medical panel PC, please follow the precautions listed below:

- **Certified Engineers:** Only certified engineers should install and modify the hardware settings.
- **Power turned off:** When installing the medical panel PC, make sure the power is off. Failing to turn off the power may cause severe injury to the body and/or damage to the system.
- **Anti-static Discharge:** If a user open the rear panel of the medical panel PC, to plug in added peripheral devices, ground themselves first and wear an anti-static wristband.
- **AC power plug:** AC plug is used as a means and device to be separated from the mains, and must be installed in a location where it can be easily unplugged



WARNING / AVERTISSEMENT

Do not modify this equipment without authorization of manufacturer.

Ne modifiez pas cet équipement sans l'autorisation du fabricant.



WARNING / AVERTISSEMENT

DO NOT power up the POCi-W22/24C-RPL while the front panel is facing down on a sheet of conductive foam. Doing so may cause the touch panel to malfunction due to the large surface area of contact between the conductive form and the touch panel.

NE mettez PAS le POCi-W22/24C-RPL sous tension lorsque le panneau avant est orienté vers le bas sur une feuille de mousse conductrice. Cela pourrait entraîner un dysfonctionnement de l'écran tactile en raison de la grande surface de contact entre la forme conductrice et l'écran tactile.

**WARNING / AVERTISSEMENT**

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

Cet équipement doit être installé et utilisé conformément aux instructions fournies et la ou les antennes utilisées pour cet émetteur doivent être installées pour fournir une distance de séparation d'au moins 20 cm de toutes les personnes et ne doivent pas être co-localisées ou fonctionner en conjonction avec toute autre antenne ou émetteur. Les utilisateurs finaux et les installateurs doivent recevoir les instructions d'installation de l'antenne et les conditions de fonctionnement de l'émetteur pour satisfaire à la conformité d'exposition RF.

3.4 Installation and Configuration Steps

The following installation steps must be followed.

Step 1: Unpack the medical panel PC.

Step 2: Install an M.2 SSD.

Step 3: Connect peripheral devices to the medical panel PC.

Step 4: Mount the medical panel PC.

POCi-W22/24C-RPL Medical Panel PC

3.5 M.2 M-Key SSD Installation

To install M.2 SSD into the system, please follow the steps below:

Step 1: Remove the two SSD cover retention screws on the rear panel (**Figure 3-1**).



Figure 3-1: SSD Cover Retention Screws

Step 2: Remove the SSD cover.

Step 3: Remove the three retention screws to lift the bracket off the panel PC.



Figure 3-2: Bracket Retention Screws

Step 4: Locate the M.2 M-key slot (**Figure 3-3**). Remove the on-board retention screw.

**2 x M.2 2280
M-key Slot**

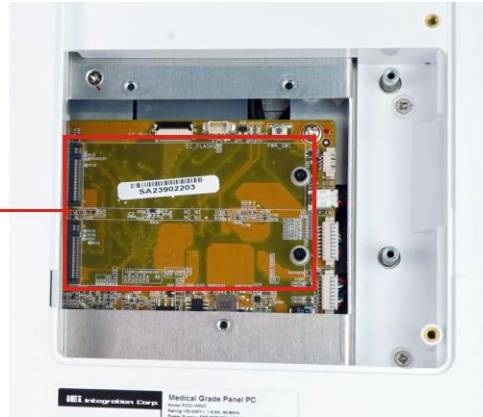


Figure 3-3: M.2 Slot Locations

Step 5: Line up the notch on the M.2 SSD with the notch on the slot. Slide the M.2 SSD into the socket at an angle of about 20° (**Figure 3-4**).

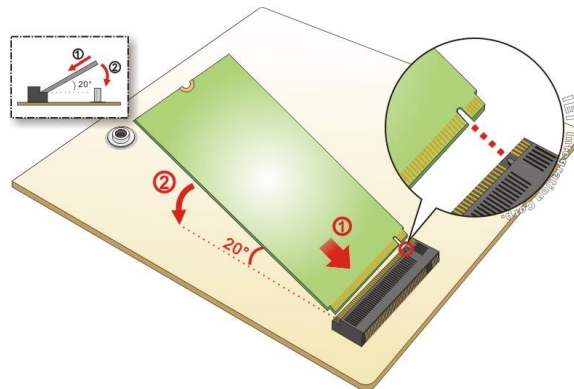


Figure 3-4: Inserting the M.2 SSD into the Slot at an Angle

POCi-W22/24C-RPL Medical Panel PC

Step 6: Push the M.2 module down and secure it with the previously removed retention screw (**Figure 3-5**).

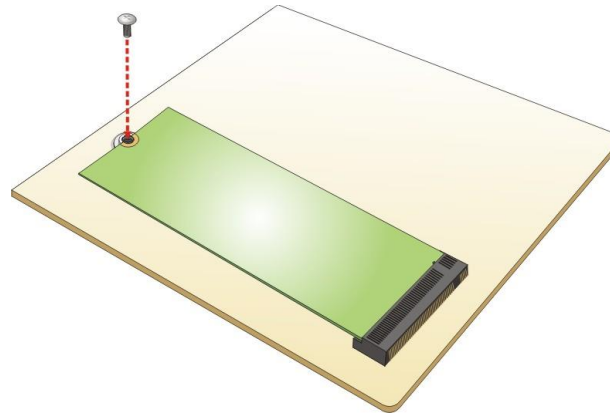


Figure 3-5: Securing the M.2 SSD

Step 7: Re-install the brackets and the SSD cover.

3.6 RS-232 Serial Port Connection

The bottom panel of the POCi-W22/24C-RPL has two DB-9 male connectors for RS-232 connection. The pinouts of the DB-9 connector are listed below.

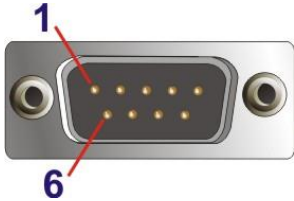
Pin	RS-232	
1	DCD	
2	RX	
3	TX	
4	DTR	
5	GND	
6	DSR	
7	RTS	
8	CTS	
9	RI	

Table 3-1: RS-232 Serial Port Pinouts

3.7 Wall VESA Mounting

The POCi-W22/24C-RPL is VESA (4 screws: M4 type, 8 mm length min.) compliant and is designed to be mounted on a wall mounting device with a 75 mm or a 100 mm interface pad. The POCi-W22/24C-RPL VESA mount retention screw holes are shown below. Refer to the installation guide that came with the wall mounting device to mount the POCi-W22/24C-RPL.

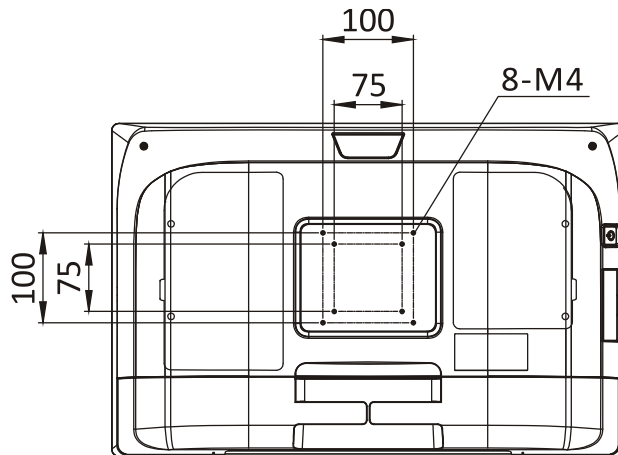


Figure 3-6: VESA Mounting Retention Screw Holes



WARNING / AVERTISSEMENT

1. The panel PC can only be mounted on the wall.

Le Panel PC ne peut être monté qu'au mur.

2. When mounting the panel PC, it is better to have more than one person to help with the installation to make sure the panel PC does not fall down and get damaged.

Lors du montage du Panel PC, il est préférable d'avoir plus d'une personne pour aider à l'installation afin de s'assurer que le Panel PC ne tombe pas et ne soit pas endommagé.

3. Use suitable mounting apparatus and be sure to secure the screws of the mounting apparatus tightly to avoid risk of injury.

Utilisez un appareil de montage approprié et assurez-vous de bien fixer les vis de l'appareil de montage pour éviter tout risque de blessure.

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3.8 Powering On the System

**WARNING / AVERTISSEMENT**

To avoid risk of electric shock, this equipment must only be connected to supply mains with protective earth.

Pour éviter tout risque d'électrocution, cet équipement ne doit être connecté qu'au secteur avec mise à la terre de protection.

To power on the system, follow the steps below:

- Step 1:** Connect the power cord to the power connector of the POCi-W22/24C-RPL.
Connect the other end of the power cord to a power source.



Figure 3-7: Power Input Connector

- Step 2:** Locate the power button on the right panel (**Figure 1-5**).
- Step 3:** Short press the power button to turn on the POCi-W22/24C-RPL.

**NOTE:**

1. The user can also long-press the touch button  on the front panel for 2 seconds to power on the system (please refer to **Section 1.4.1**).
2. Long-press the power button for 10 seconds to force shutdown the panel PC.

Chapter

4

BIOS Setup

POCi-W22/24C-RPL Medical Panel PC

4.1 Introduction

A licensed copy of the BIOS is preprogrammed into the ROM BIOS. The BIOS setup program allows users to modify the basic system configuration. This chapter describes how to access the BIOS setup program and the configuration options that may be changed.



NOTE:

Some of the BIOS options may vary throughout the life cycle of the product and are subject to change without prior notice.

4.1.1 Starting Setup

The UEFI BIOS is activated when the computer is turned on. The setup program can be activated in one of two ways.

1. **Using keyboard:** Press the **DEL** or **F2** as soon as the system is turned on.
2. **Using touchscreen:** Press the **Setup** button on the upper right corner of the BIOS Starting Menu.

If the message disappears before the **DEL** or **F2** key is pressed, restart the computer and try again, then the BIOS Starting Menu will appear. Select "Setup" and press Enter to get into the BIOS Setup.





4.1.2 Using Setup

The BIOS Setup menu can be navigated by using a keyboard or a touchscreen.

4.1.2.1 Keyboard Navigation

For keyboard navigation, use the navigation keys shown in **Table 4-1**.

Key	Function
Up arrow	Move to previous item
Down arrow	Move to next item
Left arrow	Move to the item on the left hand side
Right arrow	Move to the item on the right hand side
+	Increase the numeric value or make changes
-	Decrease the numeric value or make changes
Page Up	Move to the previous page
Page Dn	Move to the next page
Esc	Main Menu – Quit and not save changes into CMOS Status Page Setup Menu and Option Page Setup Menu -- Exit current page and return to Main Menu
F1	General help, only for Status Page Setup Menu and Option Page Setup Menu
F2	Load previous values
F3	Load optimized defaults
F4	Save changes and Exit BIOS
<K>	Scroll help area upwards
<M>	Scroll help area downwards

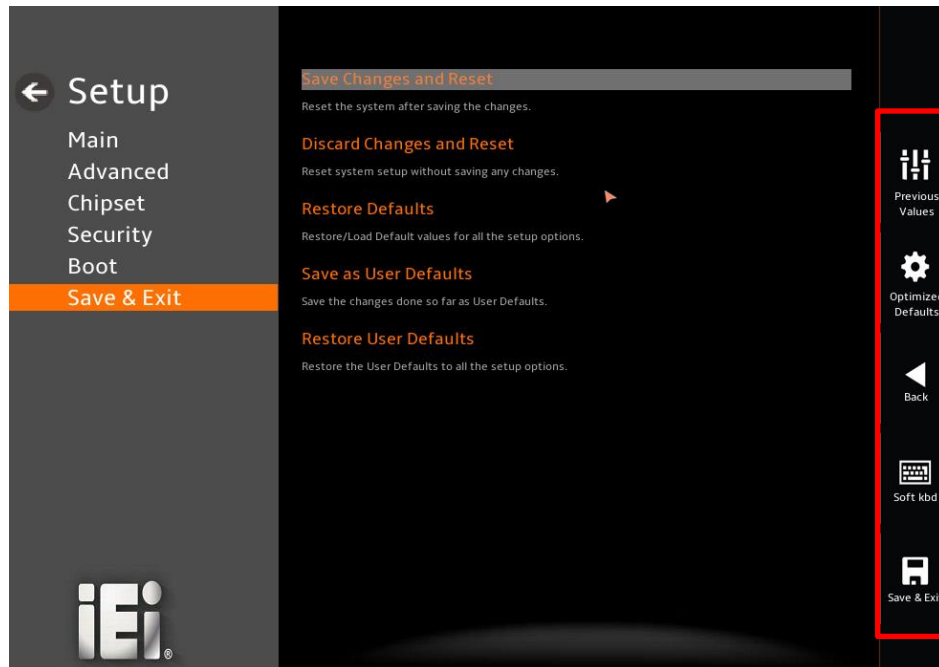
Table 4-1: BIOS Navigation Keys



POCi-W22/24C-RPL Medical Panel PC

4.1.2.2 Touch Navigation

For touchscreen navigation, use the on-screen navigation keys shown below.



On-screen Button	Function
Previous Values	Load the last value you set.
Optimized Defaults	Load the factory default values in order to achieve the best performance.
Back	Return to the previous menu.
Soft kbd	Display the on-screen keyboard.
Save & Exit	Save the changes made to the BIOS options and reset the system.

Table 4-2: BIOS On-screen Navigation Keys

4.1.3 Getting Help

When **F1** is pressed a small help window describing the appropriate keys to use and the possible selections for the highlighted item appears. To exit the Help Window press **Esc** or the **F1** key again.

4.1.4 Unable to Reboot after Configuration Changes

If the computer cannot boot after changes to the system configuration are made, CMOS defaults.

4.1.5 BIOS Menu Bar

The **menu bar** on top of the BIOS screen has the following main items:

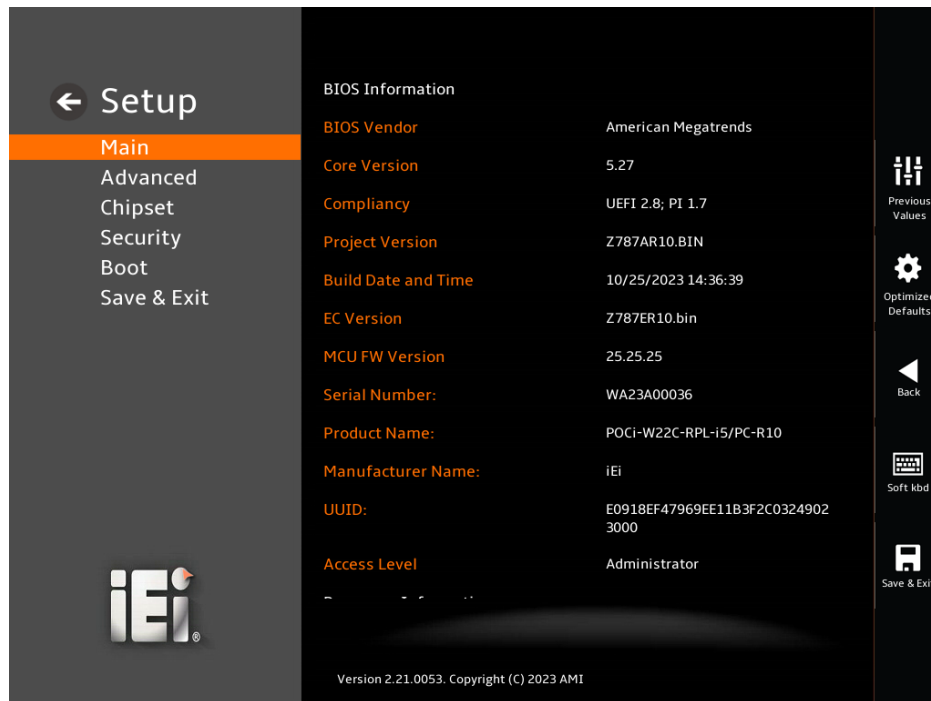
- Main – Changes the basic system configuration.
- Advanced – Changes the advanced system settings.
- Chipset – Changes the chipset settings.
- Boot – Changes the system boot configuration.
- Security – Sets User and Supervisor Passwords.
- Save & Exit – Selects exit options and loads default settings

The following sections completely describe the configuration options found in the menu items at the top of the BIOS screen and listed above.

POCi-W22/24C-RPL Medical Panel PC

4.2 Main

The **Main** BIOS menu (**BIOS Menu 1**) appears when the **BIOS Setup** program is entered.
The **Main** menu gives an overview of the basic system information.



BIOS Menu 1: Main

→ System Date [xx/xx/xx]

Use the **System Date** option to set the system date. Manually enter the day, month and year.

→ System Time [xx:xx:xx]

Use the **System Time** option to set the system time. Manually enter the hours, minutes and seconds.

4.3 Advanced

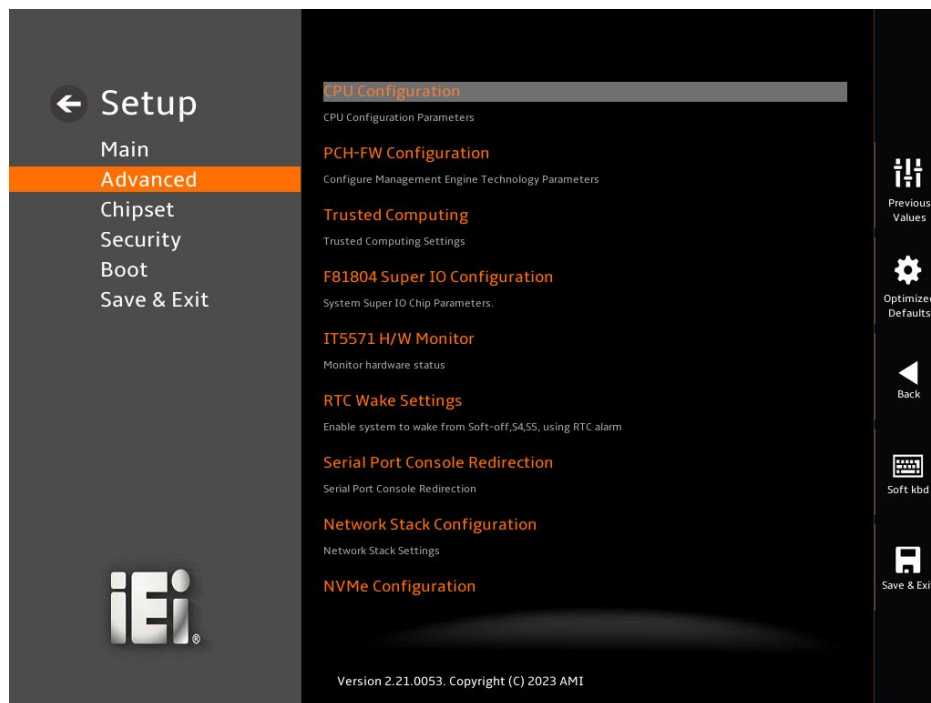
Use the **Advanced** menu (**BIOS Menu 2**) to configure the CPU and peripheral devices through the following sub-menus:



WARNING:

Setting the wrong values in the sections below may cause the system to malfunction. Make sure that the settings made are compatible with the hardware.

La définition de valeurs erronées dans les sections ci-dessous peut entraîner un dysfonctionnement du système. Assurez-vous que les paramètres définis sont compatibles avec le matériel.



BIOS Menu 2: Advanced

POCi-W22/24C-RPL Medical Panel PC

4.3.1 CPU Configuration

Use the **CPU Configuration (BIOS Menu 3)** to view detailed CPU specifications and configure the CPU.



BIOS Menu 3: CPU Configuration

→ Intel® SpeedStep(tm) [Enabled]

Use the **Intel® SpeedStep™** option to enable or disable the Intel® SpeedStep Technology.

- **Disabled** Disables the Intel® SpeedStep Technology.
- **Enabled** **DEFAULT** Enables the Intel® SpeedStep Technology.

→ C States [Enabled]

Use the **C States** option to enable or disable CPU C state.

- | | | | |
|---|-----------------|----------------|-----------------------|
| → | Disabled | | Disables CPU C state. |
| → | Enabled | DEFAULT | Enables CPU C state. |

→ Intel (VMX) Virtualization Technology [Enabled]

Use the **Intel (VMX) Virtualization Technology** option to enable or disable virtualization on the system. When combined with third party software, Intel® Virtualization technology allows several OSs to run on the same system at the same time.

- | | | | |
|---|-----------------|----------------|---|
| → | Disabled | | Disables Intel Virtualization Technology. |
| → | Enabled | DEFAULT | Enables Intel Virtualization Technology. |

→ Active Performance-cores [All]

Use the **Active Performance-cores** BIOS option to enable numbers of P-cores in the processor package.

- | | | | |
|---|------------|----------------|--|
| → | All | DEFAULT | Enable all cores in the processor package. |
| → | 3 | | Enable 3 P-cores in the processor package. |
| → | 2 | | Enable 2 P-cores in the processor package. |
| → | 1 | | Enable 1 P-core in the processor package. |

→ Active Efficient-cores [All]

Use the **Active Efficient-cores** BIOS option to enable numbers of E-cores in the processor package.

- | | | | |
|---|------------|----------------|--|
| → | All | DEFAULT | Enable all cores in the processor package. |
| → | 7 | | Enable 7 E-cores in the processor package. |
| → | 6 | | Enable 6 E-cores in the processor package. |
| → | 5 | | Enable 5 E-cores in the processor package. |

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- ➔ 4 Enable 4 E-cores in the processor package.
- ➔ 3 Enable 3 E-cores in the processor package.
- ➔ 2 Enable 2 E-cores in the processor package.
- ➔ 1 Enable 1 E-core in the processor package.
- ➔ 0 Disable all E-cores in the processor package.

➔ **Hyper-Threading [Enabled]**

Use the **Hyper-Threading** option to enable or disable the Intel® Hyper-Threading Technology.

- ➔ **Disabled** Disable Intel® Hyper-Threading Technology
- ➔ **Enabled** **DEFAULT** Enable Intel® Hyper-Threading Technology

➔ **Intel Trusted Execution Technology [Disabled]**

Use the **Intel Trusted Execution Technology** option to enable or disable utilization of additional hardware capabilities provided by Intel® Trusted Execution Technology.

- ➔ **Disabled** **DEFAULT** Disable Intel® Trusted Execution Technology
- ➔ **Enabled** Enable Intel® Trusted Execution Technology

➔ **Power Limit 1**

Use the Power Limit 1 to set Power Limit in Milli Watts. BIOS will round to the nearest 1/8W when programming. 0 = no custom override. For 12.50W, enter 12500. Overclocking SKU: Value must be between Max and Min Power Limits. Other SKUs: This value must be between Min Power limit and TDP Limit. If value is 0, BIOS will program TDP value.

➔ **Power Limit 2**

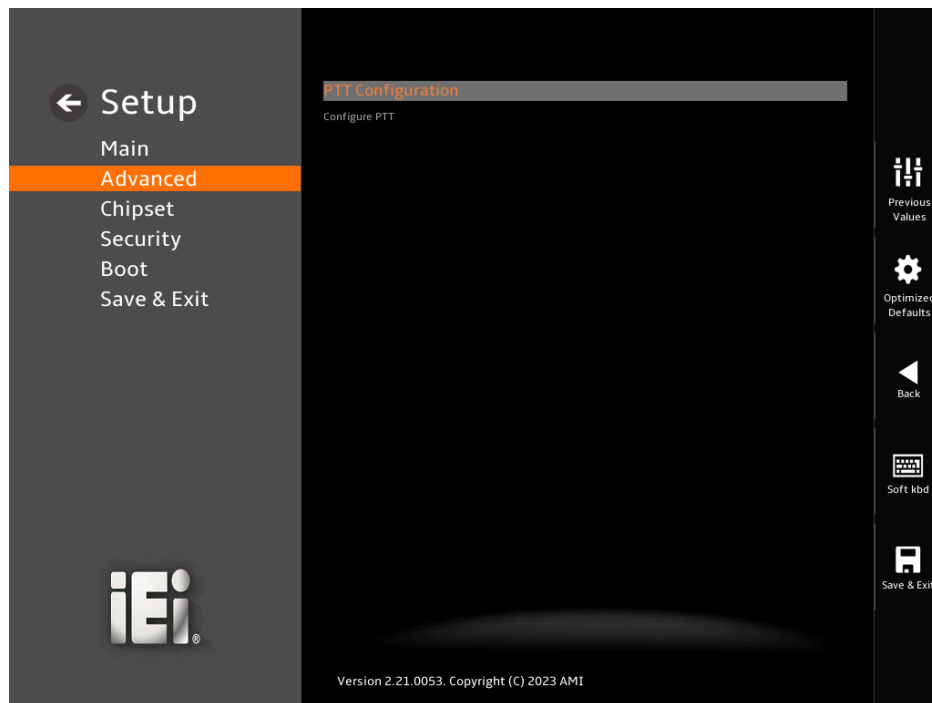
Use the Power Limit 2 to set Power Limit in Milli Watts. BIOS will round to the nearest 1/8W when programming. If the value is 0, BIOS will program this value as 1.25*TDP. For 12.50W, enter 12500. Processor applies control policies such that the package power does not exceed this limit.

→ Power Limit 1 Time Window

Power Limit 1 Time Window value in second. The value may vary from 0 to 128.0, 0 = default value (28 sec for mobile and 8 sec for desktop). Defines time window which TDP value should be maintained.

4.3.2 PCH-FW Configuration

The **PCH-FW Configuration** menu (**BIOS Menu 4**) allows PTT options to be configured.



BIOS Menu 4: PCH-FW Configuration

→ TPM Device Selection [PTT]

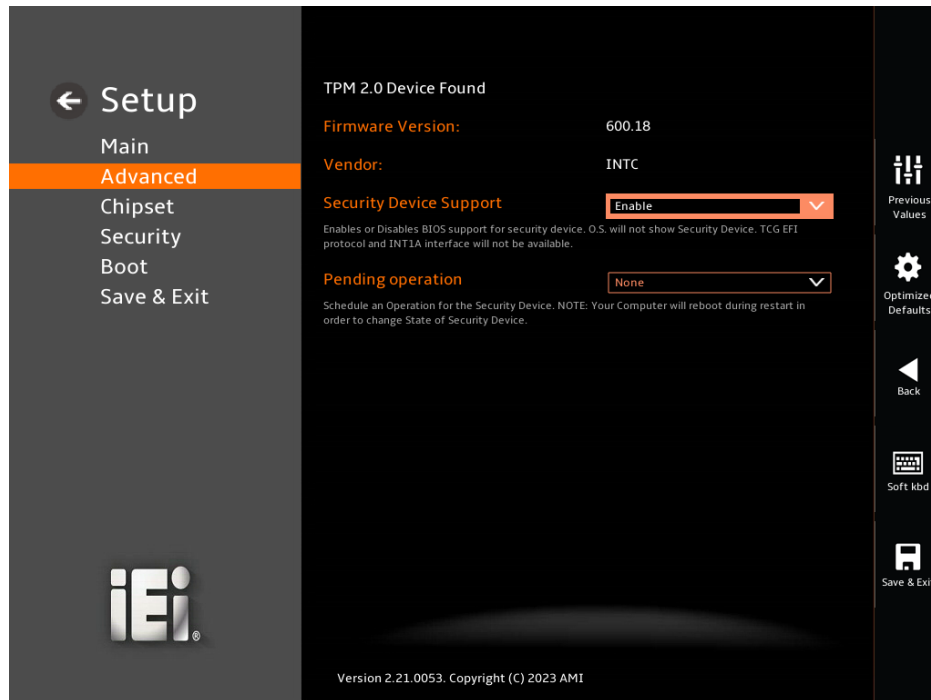
Use the **TPM Device Selection** option to configure support for the TPM.

- **dTPM** Disable PTT in SkuMgr.
- **PTT** **DEFAULT** Enable PTT in SkuMgr

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4.3.3 Trusted Computing

Use the **Trusted Computing** menu (**BIOS Menu 5**) to configure settings related to the Trusted Computing Group (TCG) Trusted Platform Module (TPM).



BIOS Menu 5: Trusted Computing

→ Security Device Support [Enable]

Use the **Security Device Support** option to configure support for the security devices.

- **Disable** Security device support is disabled.
- **Enable** **DEFAULT** Security device support is enabled.

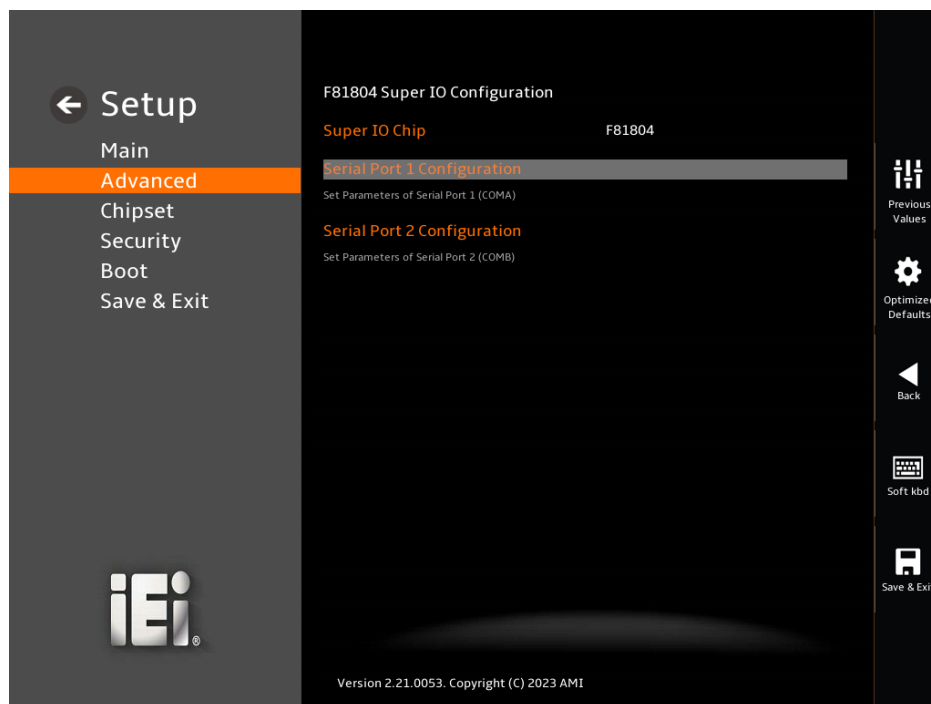
→ Pending Operation [None]

Use the **Pending Operation** option to specify a TPM operation which will be performed during the next boot process.

- **None** **DEFAULT** No TPM operation will be performed.
- **TPM Clear** TPM is reset to the factory setting. All data in the TPM will be deleted.

4.3.4 F81804 Super IO Configuration

Use the **F81804 Super IO Configuration** menu (**BIOS Menu 6**) to set or change the configurations for the serial ports.

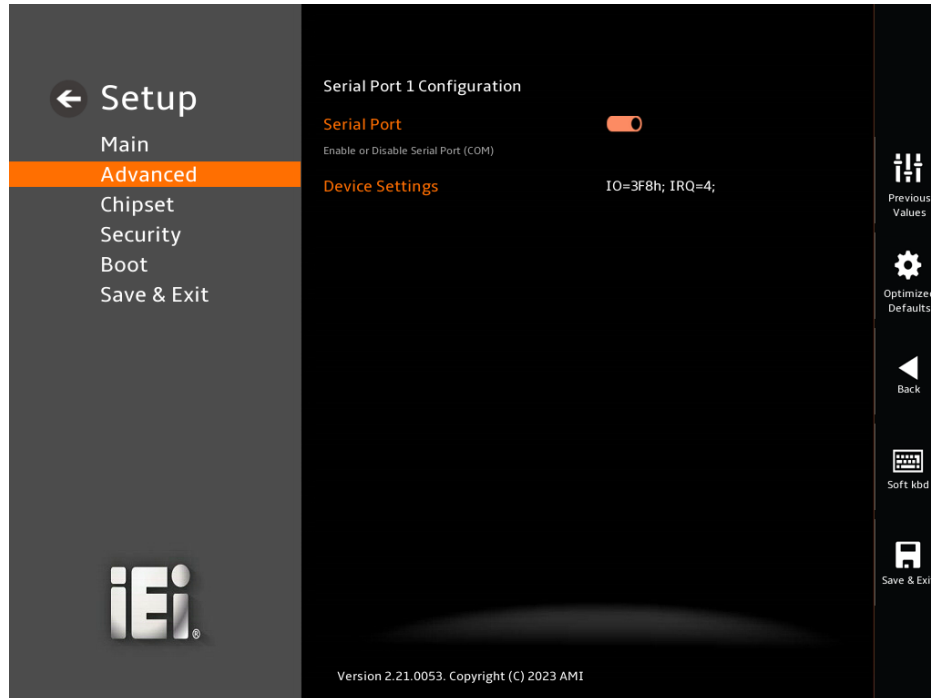


BIOS Menu 6: F81804 Super IO Configuration

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4.3.4.1 Serial Port 1 Configuration

Use the **Serial Port 1 Configuration** menu (**BIOS Menu 7**) to configure the serial port 1.



BIOS Menu 7: Serial Port 1 Configuration Menu

→ **Serial Port [Enabled]**

Use the **Serial Port** option to enable or disable the serial port.

- **Disabled** Disable the serial port
- **Enabled** **DEFAULT** Enable the serial port

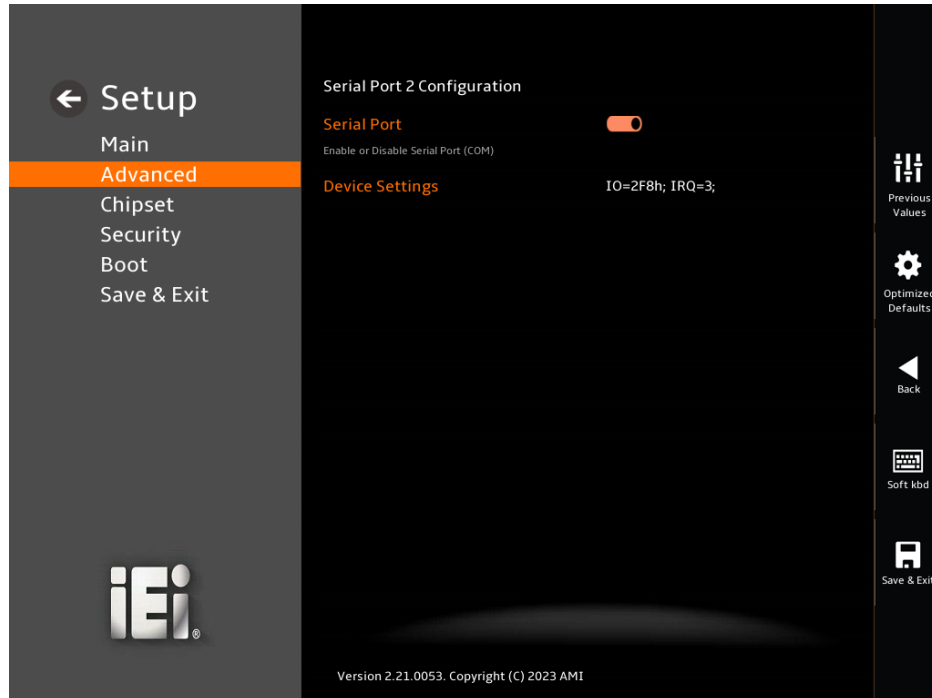
→ **Change Settings [Auto]**

The Device Settings option shows the serial port IO port address and interrupt address.

- **IO=3F8h;** Serial Port I/O port address is 3F8h and the interrupt
IRQ=4 address is IRQ4

4.3.4.2 Serial Port 2 Configuration

Use the **Serial Port 2 Configuration** menu (**BIOS Menu 7**) to configure the serial port 2.



BIOS Menu 8: Serial Port 2 Configuration Menu

→ Serial Port [Enabled]

Use the **Serial Port** option to enable or disable the serial port.

→ **Disabled** Disable the serial port

→ **Enabled** **DEFAULT** Enable the serial port

→ Change Settings [Auto]

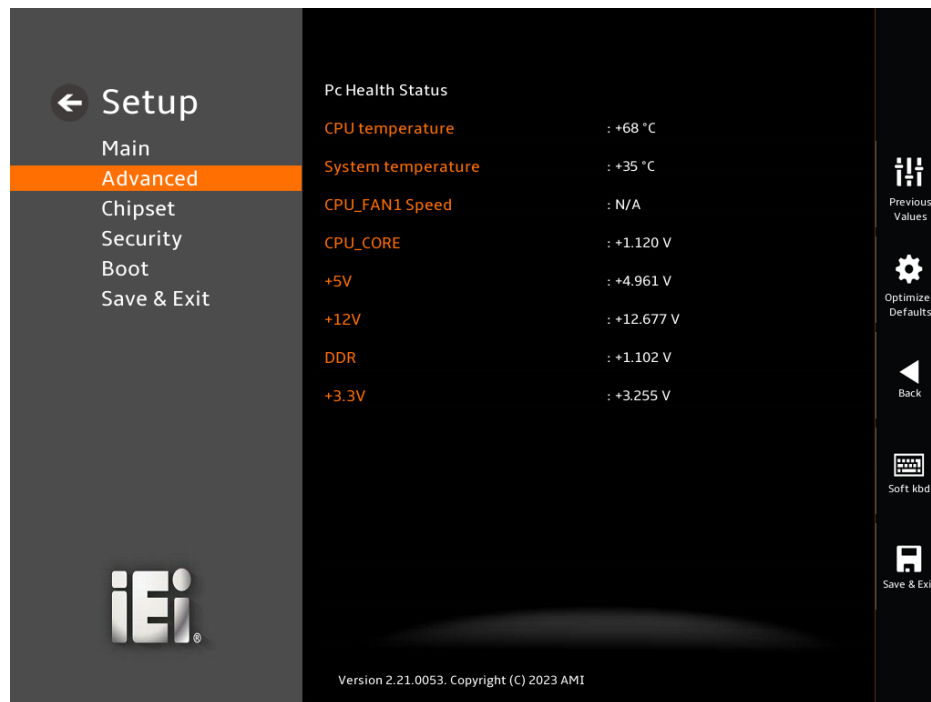
The Device Settings option shows the serial port IO port address and interrupt address.

→ **IO=2F8h;** Serial Port I/O port address is 2F8h and the interrupt
IRQ=3 address is IRQ3

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4.3.5 IT5571 H/W Monitor

The **IT5571 H/W Monitor** menu (**BIOS Menu 9**) shows the operating temperatures and voltages.



BIOS Menu 9: IT5571 H/W Monitor

→ PC Health Status

The following system parameters and values are shown. The system parameters that are monitored are:

- Temperature:
 - CPU Temperature
 - System Temperature
- Voltages:
 - CPU_CORE
 - +5V
 - +12V
 - DDR
 - +3.3V

4.3.6 RTC Wake Settings

The **RTC Wake Settings** menu (**BIOS Menu 10**) configures RTC wake event.



BIOS Menu 10: RTC Wake Settings

→ Wake System with Fixed Time [Disabled]

Use the **Wake System with Fixed Time** option to specify the time the system should be roused from a suspended state.

- | | | | |
|---|-----------------|----------------|--|
| → | Disabled | DEFAULT | The real time clock (RTC) cannot generate a wake event |
|---|-----------------|----------------|--|

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➔ **Enabled**

If selected, the following appears with values that can be selected:

*Wake up every day

*Wake up date

*Wake up hour

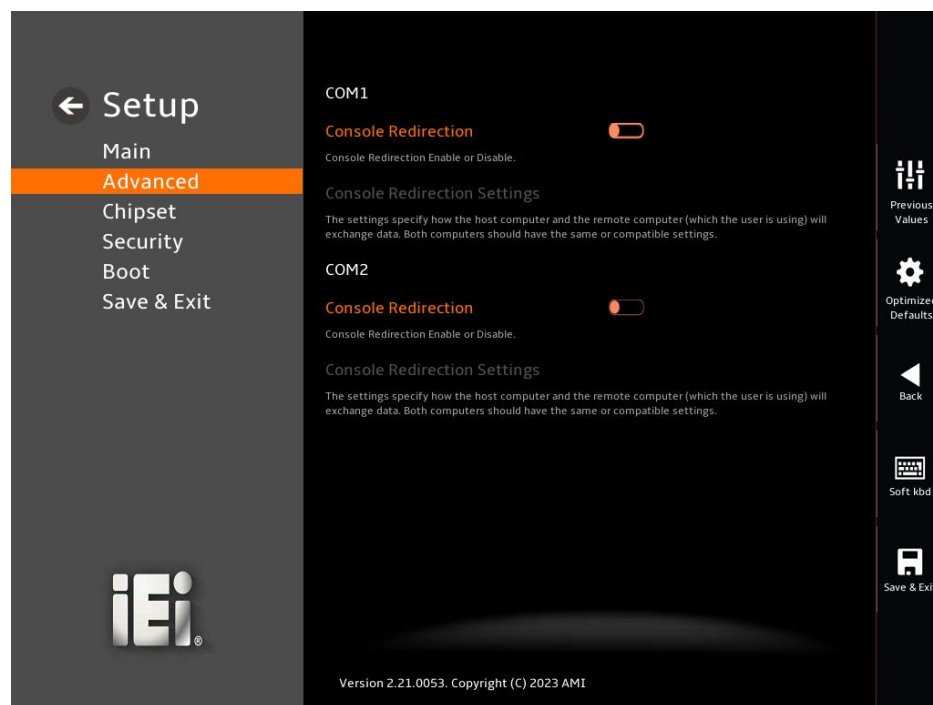
*Wake up minute

*Wake up second

After setting the alarm, the computer turns itself on from a suspend state when the alarm goes off.

4.3.7 Serial Port Console Redirection

The **Serial Port Console Redirection** menu (**BIOS Menu 11**) allows the console redirection options to be configured. Console redirection allows users to maintain a system remotely by re-directing keyboard input and text output through the serial port.



BIOS Menu 11: Serial Port Console Redirection

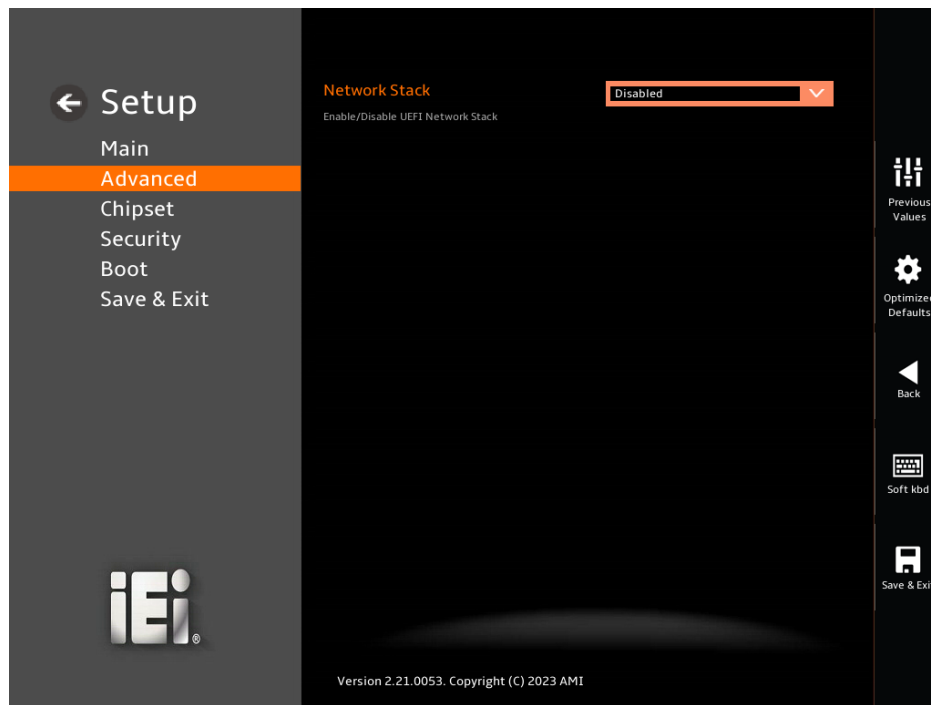
→ Console Redirection [Disabled]

Use **Console Redirection** option to enable or disable the console redirection function.

- **Disabled** **DEFAULT** Disabled the console redirection function
- **Enabled** Enabled the console redirection function

4.3.8 Network Stack Configuration

Use the **Network Stack Configuration** menu (**BIOS Menu 12**) to configure network stack settings.



BIOS Menu 12: Network Stack Configuration

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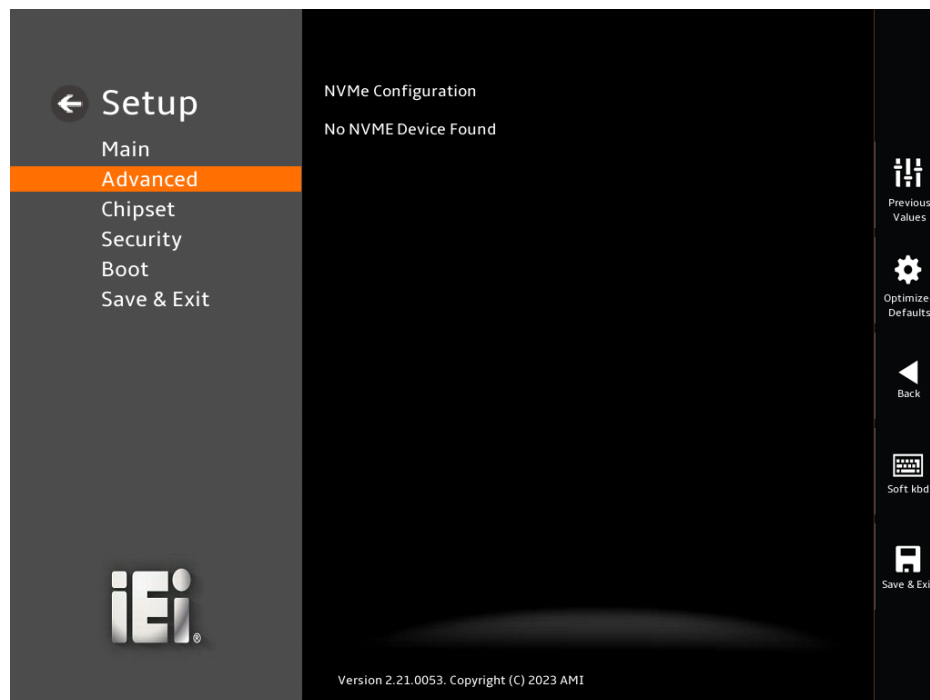
→ Network Stack [Disabled]

Use the **Network Stack** BIOS option to enable or disable UEFI network stack.

- **Disabled** **DEFAULT** UEFI network stack disabled
- **Enabled** UEFI network stack enabled

4.3.9 NVMe Configuration

Use the **NVMe Configuration (BIOS Menu 13)** menu to display the NVMe controller and device information.



BIOS Menu 13: NVMe Configuration

4.4 Chipset

Use the **Chipset** menu (**BIOS Menu 14**) to configure the system chipset.

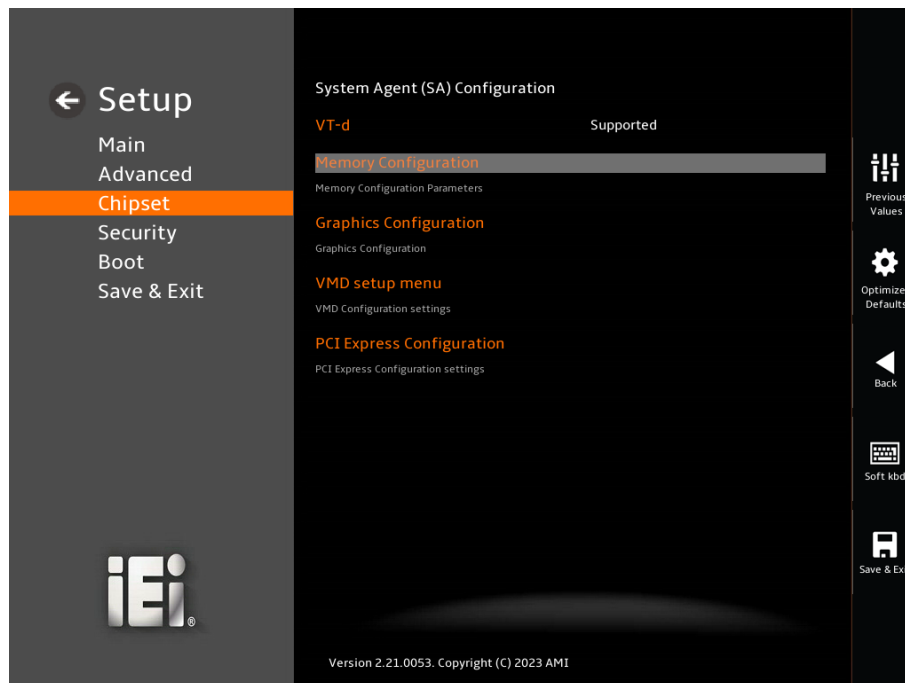


BIOS Menu 14: Chipset

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4.4.1 System Agent (SA) Configuration

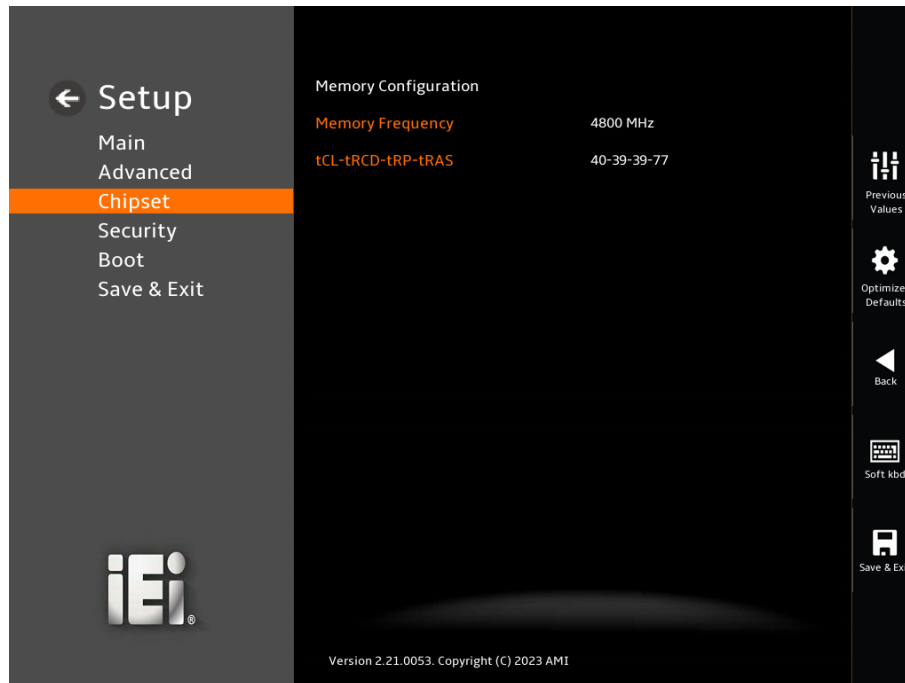
Use the **System Agent (SA) Configuration** menu (**BIOS Menu 15**) to configure the System Agent (SA) parameters.



BIOS Menu 15: System Agent (SA) Configuration

4.4.1.1 Memory Configuration

Use the **Memory Configuration** submenu (**BIOS Menu 16**) to display the memory information.

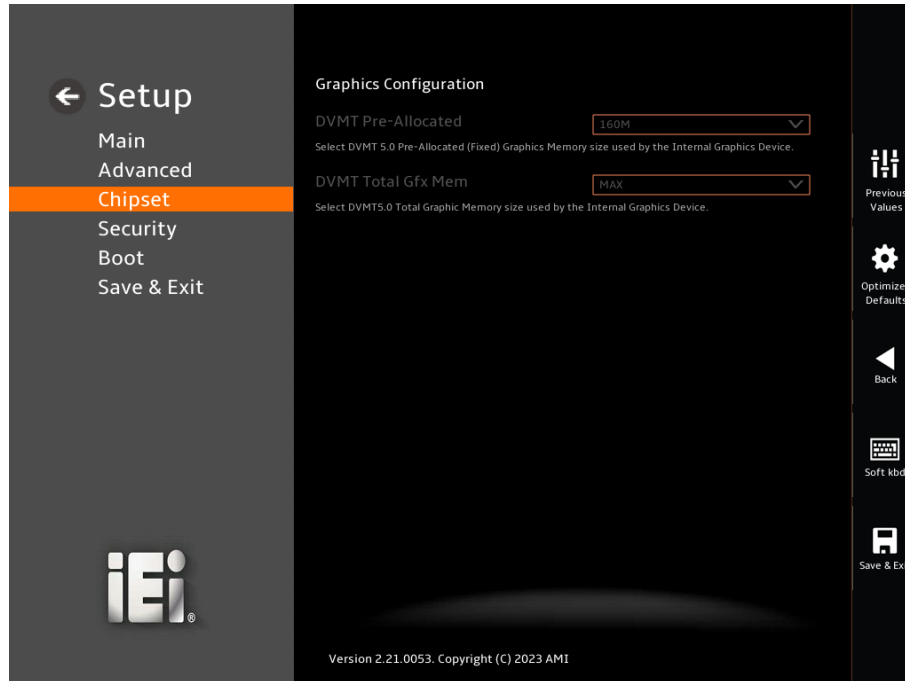


BIOS Menu 16: Memory Configuration

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4.4.1.2 Graphics Configuration

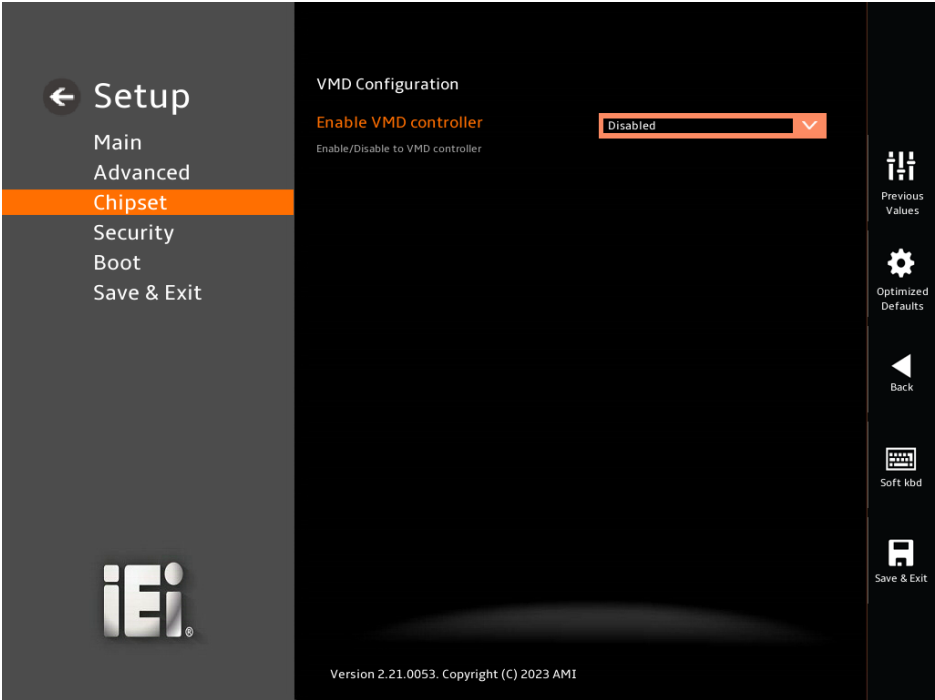
Use the **Graphics Configuration** menu (**BIOS Menu 17**) to view the graphics settings.



BIOS Menu 17: Graphics Configuration

4.4.1.3 VMD Setup Menu

Use the **VMD Setup Menu (BIOS Menu 18)** to configure VMD settings.



BIOS Menu 18: VMD Setup Menu

➔ **Enable VMD Controller [Disabled]**

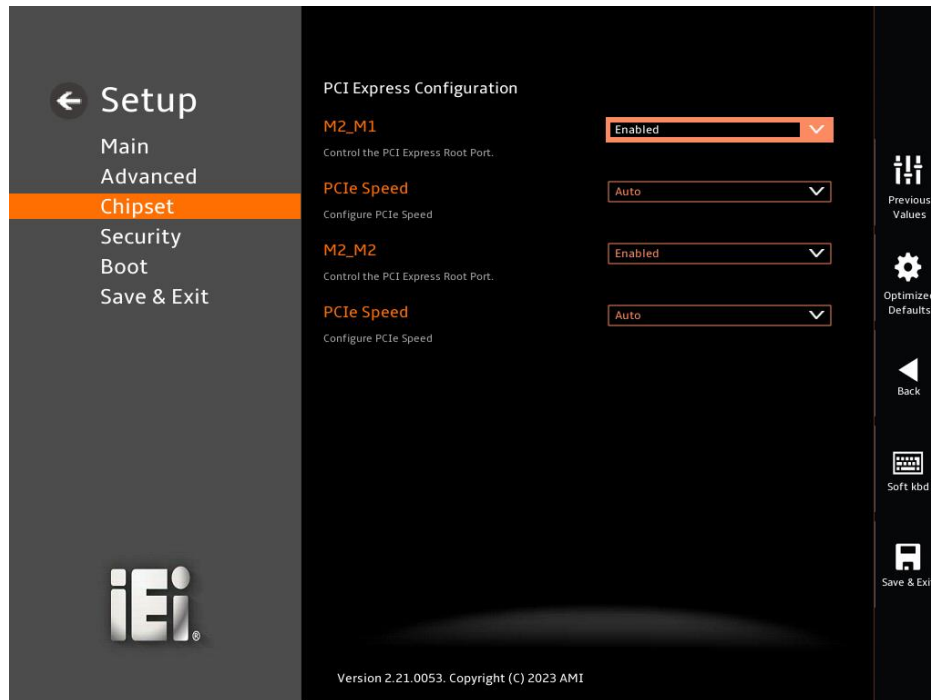
Enable/Disable to VMD controller.

- ➔ Disabled **DEFAULT** Disable the VMD controller
- ➔ Enabled Enable the VMD controller

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4.4.1.4 PCI Express Configuration

Use the **PCI Express Configuration** submenu (**BIOS Menu 19**) to configure the PCI Express slots.



BIOS Menu 19: PCI Express Configuration

→ M2_M1 / M2_M2 [Enabled]

Use the **M2_M1** or the **M2_M2** option to enable or disable the M.2 M key slot.

- **Disabled** Disable the M.2 M key slot
- **Enabled** **DEFAULT** Enable the M.2 M key slot

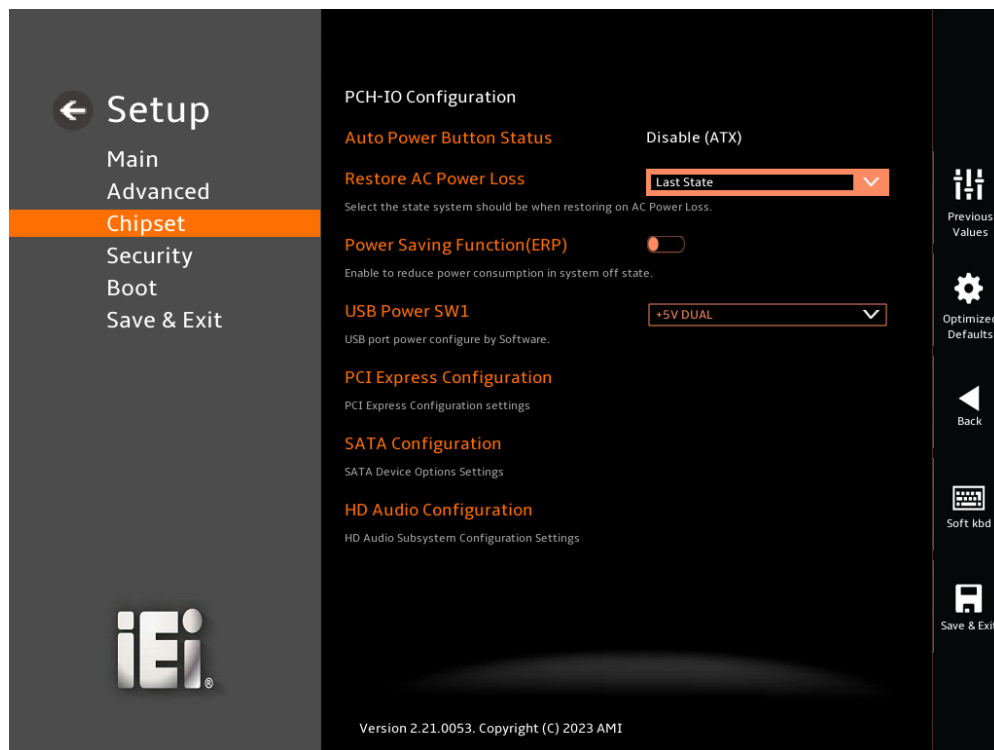
→ PCIe Speed [Auto]

Use the **PCIe Speed** option to configure the PCIe interface speed.

- Auto **DEFAULT**
- Gen 1
- Gen 2
- Gen 3
- Gen 4

4.4.2 PCH-IO Configuration

Use the **PCH-IO Configuration** menu (**BIOS Menu 20**) to configure the PCH-IO chipset.



BIOS Menu 20: PCH-IO Configuration

→ Restore on AC Power Loss [Last State]

Use the **Restore on AC Power Loss** BIOS option to specify what state the system returns to if there is a sudden loss of power to the system.

POCi-W22/24C-RPL Medical Panel PC

- ➔ **Power Off** The system remains turned off
- ➔ **Power On** The system turns on
- ➔ **Last State DEFAULT** The system returns to its previous state. If it was on, it turns itself on. If it was off, it remains off.

➔ **Power Saving Function(ERP) [Disabled]**

Use the **Power Saving Function(ERP)** BIOS option to enable or reduce power consumption in the S5 state. When enabled, the system can only be powered-up using the power button.

- ➔ **Disabled DEFAULT** Power Saving Function support disabled
- ➔ **Enabled** Power Saving Function support enabled

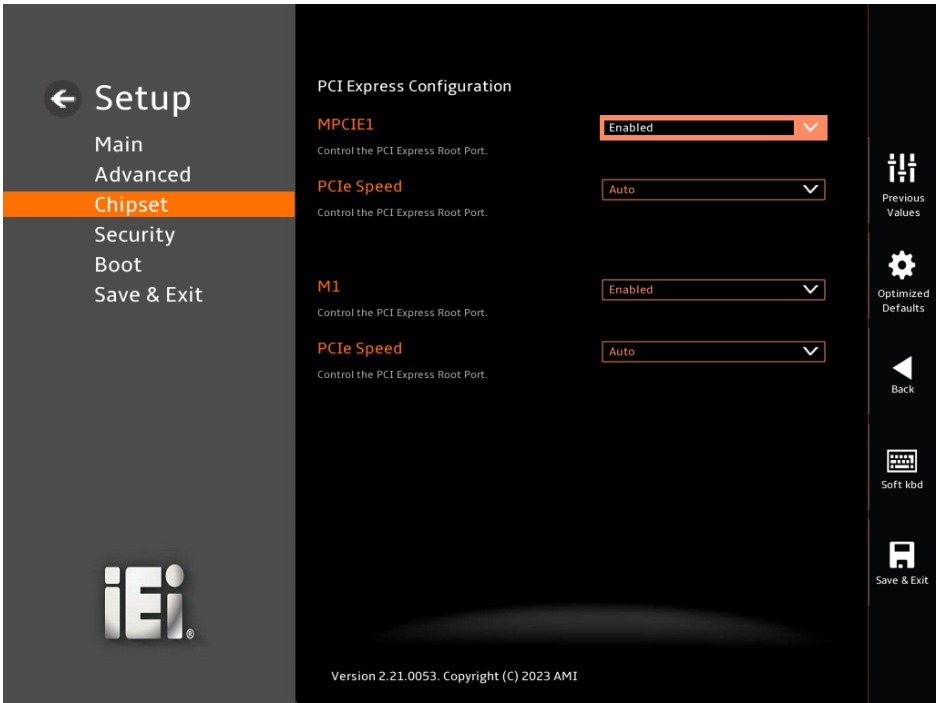
➔ **USB Power SW1 [+5V]**

Use the **USB Power SW1** BIOS option to configure the USB power source for all of the USB 3.2 Gen 2 and USB 2.0 connectors of the panel PC.

- ➔ **+5V DEFAULT** Set the USB power source to +5V
- ➔ **+5V DUAL** Set the USB power source to +5V dual

4.4.2.1 PCI Express Configuration

Use the **PCI Express Configuration** submenu (**BIOS Menu 21**) to configure the PCI Express slots.



BIOS Menu 21: PCI Express Configuration

➔ **MPCIE1 / M1 [Enabled]**

Use the **MPCIE1** or the **M1** option to enable or disable the PCI Express root port.

- ➔ **Disabled** Disable the PCI Express root port
- ➔ **Enabled** **DEFAULT** Enable the PCI Express root port

➔ **PCIe Speed [Auto]**

Use the **PCIe Speed** option to configure the PCIe interface speed.

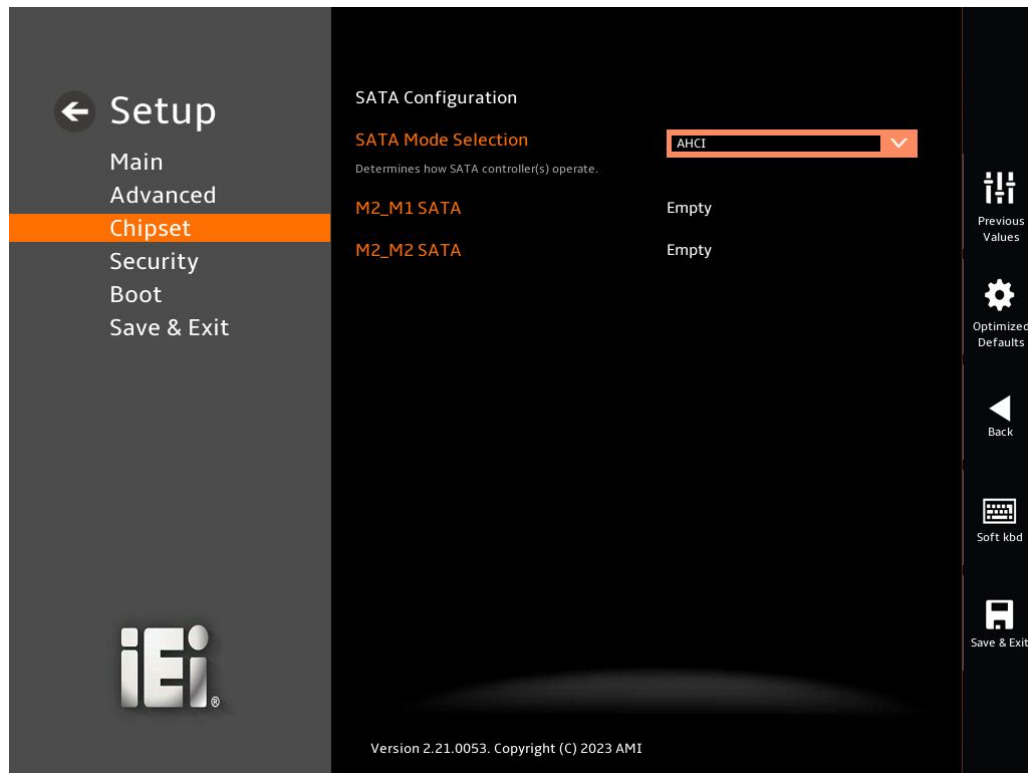
- Auto **DEFAULT**
- Gen 1
- Gen 2

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- Gen 3

4.4.2.2 SATA Configuration

Use the **SATA Configuration** menu (**BIOS Menu 22**) to change and/or set the configuration of the SATA devices installed in the system.



BIOS Menu 22: SATA Configuration

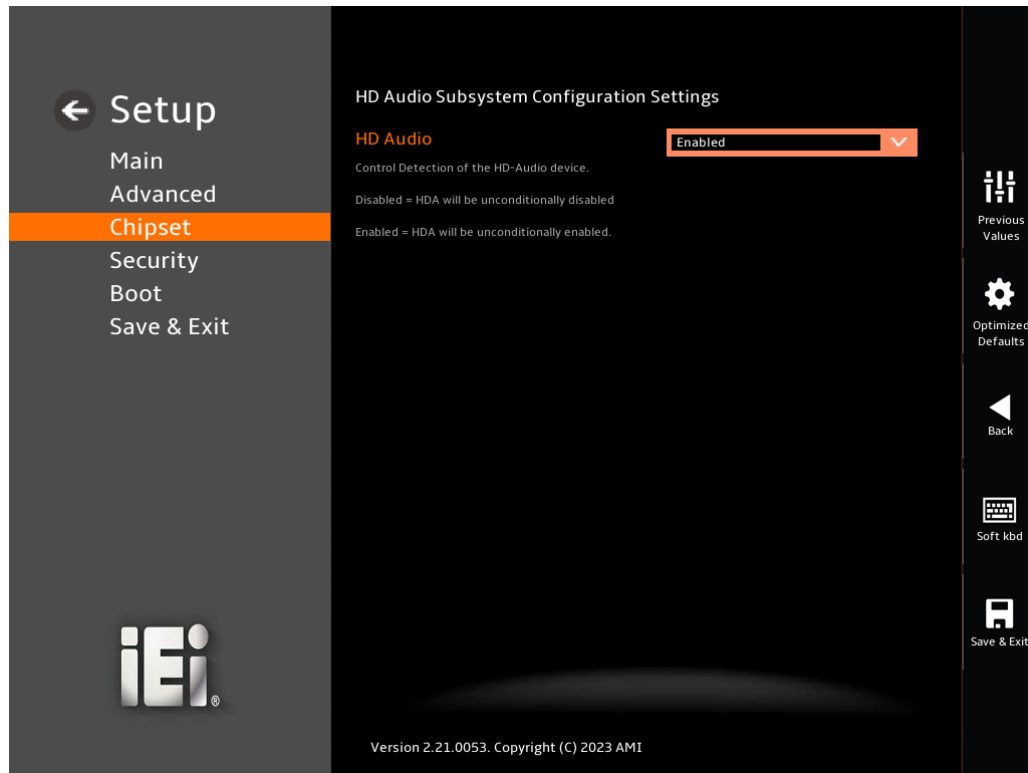
→ SATA Mode Selection [AHCI]

Use the **SATA Mode Selection** option to determine how SATA devices operate.

- **AHCI** **DEFAULT** Configures SATA devices as AHCI device.

4.4.2.3 HD Audio Configuration

Use the **HD Audio Configuration** submenu (**BIOS Menu 23**) to configure the High Definition Audio codec.



BIOS Menu 23: HD Audio Configuration

→ HD Audio [Enabled]

Use the **HD Audio** BIOS option to enable or disable the High Definition Audio controller.

- | | | | |
|---|-----------------|----------------|---|
| → | Disabled | | The High Definition Audio controller is disabled. |
| → | Enabled | DEFAULT | The High Definition Audio controller is enabled. |

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4.5 Security

Use the **Security** menu (**BIOS Menu 24**) to set system and user passwords.



BIOS Menu 24: Security

→ Administrator Password

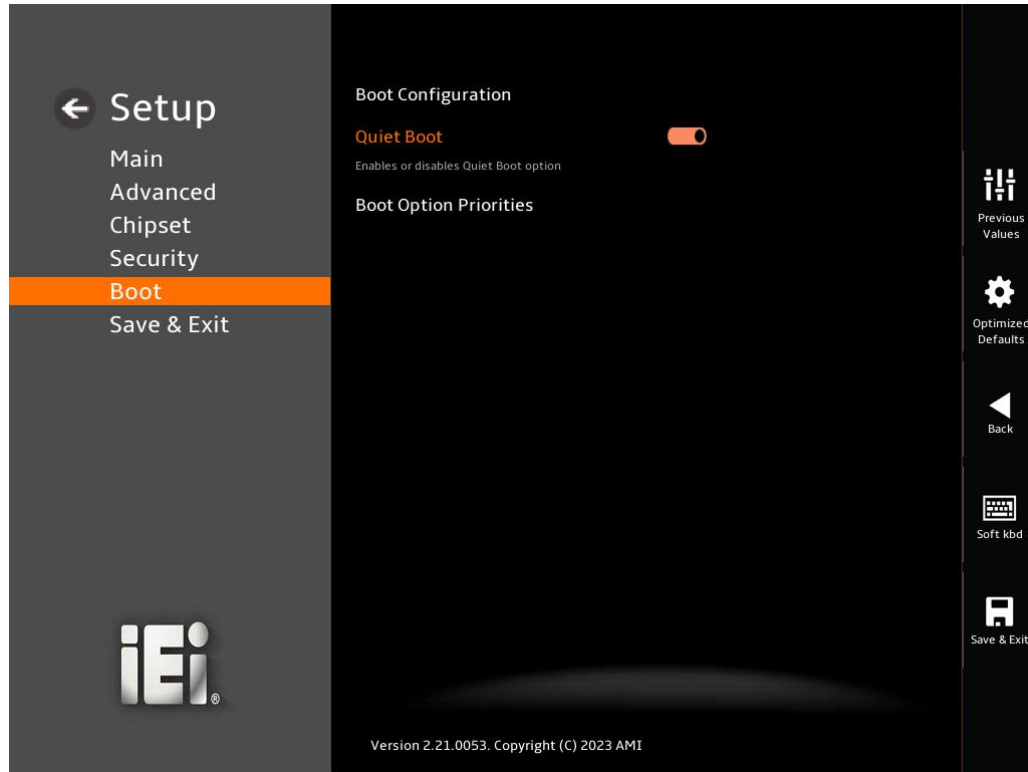
Use the **Administrator Password** field to set or change an administrator password.

→ User Password

Use the **User Password** field to set or change a user password.

4.6 Boot

Use the **Boot** menu (**BIOS Menu 25**) to configure system boot options.



BIOS Menu 25: Boot

→ Quiet Boot [Enabled]

Use the **Quiet Boot** BIOS option to select the screen display when the system boots.

- **Disabled** Normal POST messages displayed
- **Enabled** **DEFAULT** OEM Logo displayed instead of POST messages

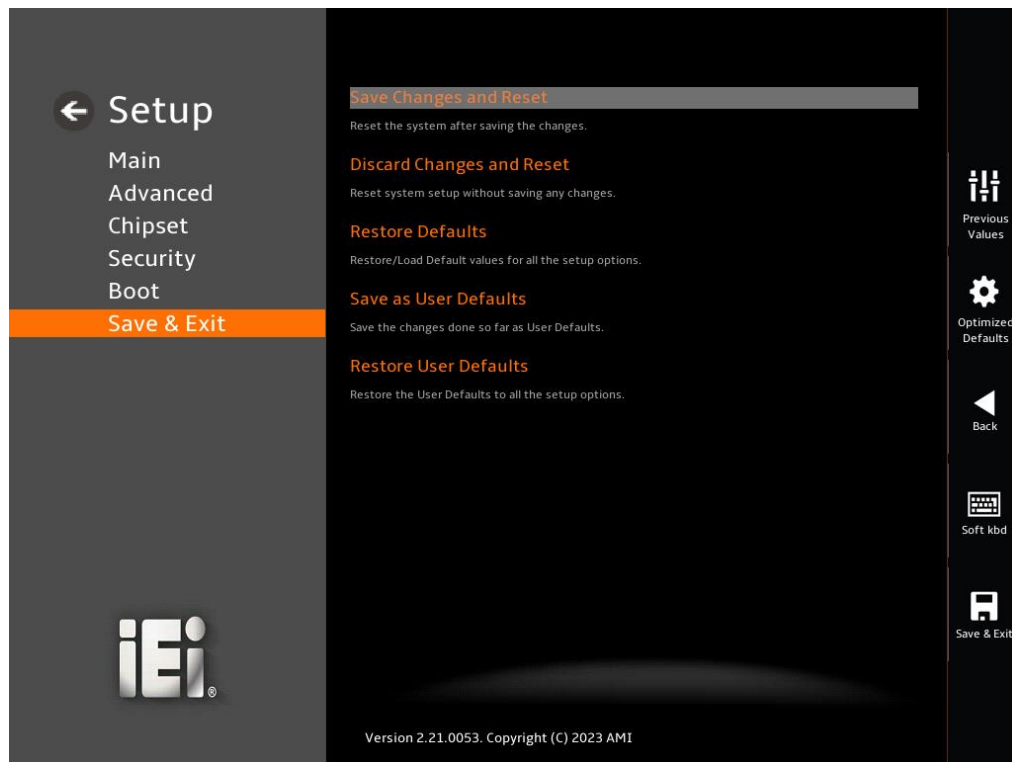
→ Boot Option Priorities

Use the Boot Option # N to choose the system boots from the peripherals you selected.

POCi-W22/24C-RPL Medical Panel PC

4.7 Save & Exit

Use the **Save & Exit** menu (**BIOS Menu 26**) to load default BIOS values, optimal failsafe values and to save configuration changes.



BIOS Menu 26: Save & Exit

→ Save Changes and Reset

Use the **Save Changes and Reset** option to save the changes made to the BIOS options and reset the system.

→ Discard Changes and Reset

Use the **Discard Changes and Reset** option to exit the system without saving the changes made to the BIOS configuration setup program.

→ Restore Defaults

Use the **Restore Defaults** option to load the optimal default values for each of the parameters on the Setup menus. **F3 key can be used for this operation.**

➔ **Save as User Defaults**

Use the **Save as User Defaults** option to save the changes done so far as user defaults.

➔ **Restore User Defaults**

Use the **Restore User Defaults** option to restore the user defaults to all the setup options.

Chapter

5

Driver Installation



5.1 Available Drivers

All the drivers for the POCi-W22/24C-RPL are available on IEI Resource Download Center (<https://download.ieiworld.com>). Type the model name, and press Enter to find all the relevant software, utilities, and documentation.

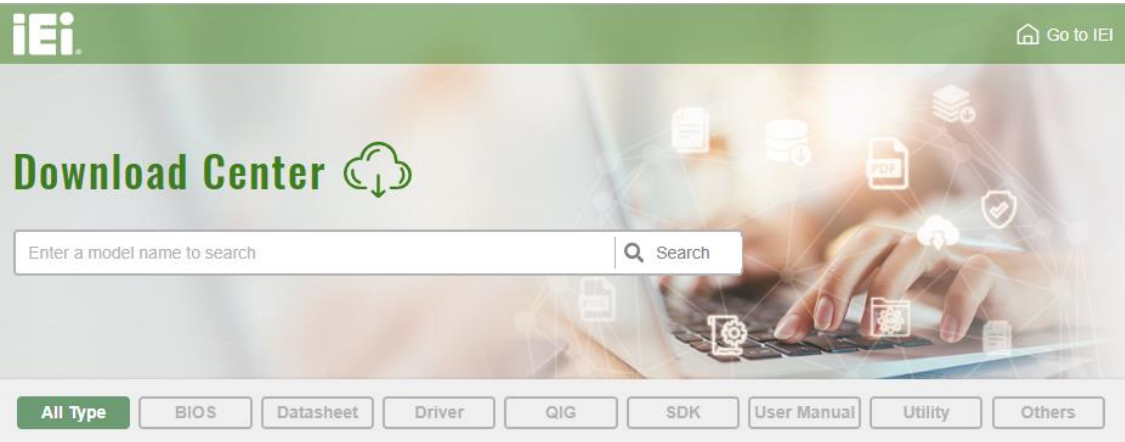
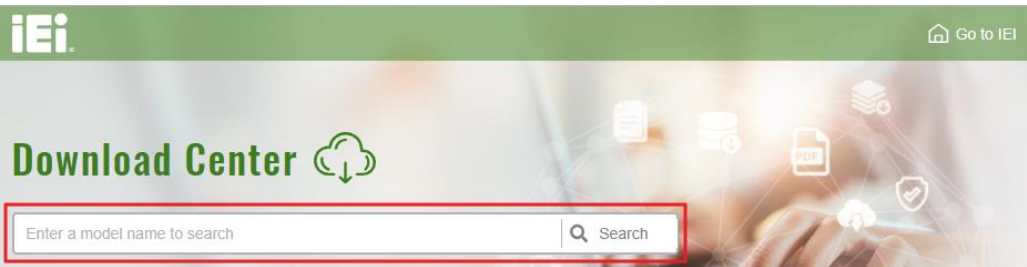


Figure 5-1: IEI Resource Download Center

5.2 Driver Download

To download drivers from IEI Resource Download Center, follow the steps below.

Step 1: Go to <https://download.ieiworld.com>. Type POCi-W22C-RPL or POCi-W24C-RPL, and press Enter.



Step 2: All product-related software, utilities, and documentation will be listed. You can choose **Driver** to filter the result.



POCi-W22/24C-RPL Medical Panel PC

[All Type](#)
[BIOS](#)
[Datasheet](#)
[Driver](#)
[QIG](#)
[SDK](#)
[User Manual](#)
[Utility](#)
[Others](#)

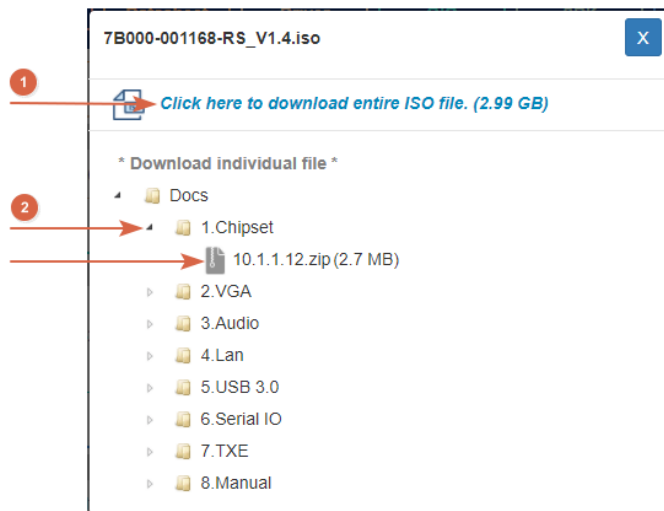
WAFER-BT-i1 [Product Info](#)

[Embedded Computer](#) ▶ [Single Board Computer](#) ▶ [Embedded Board](#)
 3.5" SBC with Intel® 22nm Atom™/Celeron® on-board SoC

Driver

File Name	Published	Version	File Checksum
7B000-001033-RS V2.3.iso (2.23 GB)	2017/10/03	2.30	3B2DB1F792779A93A8F50DDBC3943E30

Step 3: Click the driver file name on the page and you will be prompted with the following window. You can download the entire ISO file (❶), or click the small arrow to find an individual driver and click the file name to download (❷).

**NOTE:**

To install software from the downloaded ISO image file in Windows 8, 8.1 or 10, double-click the ISO file to mount it as a virtual drive to view its content.

Appendix

A

Regulatory Compliance

DECLARATION OF CONFORMITY

This equipment is in conformity with the following EU directives:

- EMC Directive (2004/108/EC, 2014/30/EU)
- Low-Voltage Directive (2006/95/EC, 2014/35/EU)
- RoHS II Directive (2011/65/EU, 2015/863/EU)
- Medical Device Directive 93/42/EEC: EN 60601-1

If the user modifies and/or install other devices in the equipment, the CE conformity declaration may no longer apply.

If this equipment has telecommunications functionality, it also complies with the requirements of the Radio Equipment Directive 2014/53/EU.

English

IEI Integration Corp declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Български [Bulgarian]

IEI Integration Corp. декларира, че този оборудване е в съответствие със съществените изисквания и другите приложими правила на Директива 2014/53/EU.

Česky [Czech]

IEI Integration Corp tímto prohlašuje, že tento zařazení je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 2014/53/EU.

Dansk [Danish]

IEI Integration Corp erklærer herved, at følgende udstyr overholder de væsentlige krav og øvrige relevante krav i direktiv 2014/53/EU.

Deutsch [German]

IEI Integration Corp, erklärt dieses Gerät entspricht den grundlegenden Anforderungen und den weiteren entsprechenden Vorgaben der Richtlinie 2014/53/EU.

Eesti [Estonian]

IEI Integration Corp deklareerib seadme vastavust direktiivi 2014/53/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.

Español [Spanish]

IEI Integration Corp declara que el equipo cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 2014/53/EU.

Ελληνική [Greek]

IEI Integration Corp ΔΗΛΩΝΕΙ ΟΤΙ ΕΞΟΠΛΙΣΜΟΣ ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 2014/53/EU.

Français [French]

IEI Integration Corp déclare que l'appareil est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 2014/53/EU.

Italiano [Italian]

IEI Integration Corp dichiara che questo apparecchio è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 2014/53/EU.

Latviski [Latvian]

IEI Integration Corp deklarē, ka iekārta atbilst būtiskajām prasībām un citiem ar to saistītajiem noteikumiem Direktīvas 2014/53/EU.

Lietuvių [Lithuanian]

IEI Integration Corp deklaruoja, kad šis įranga atitinka esminius reikalavimus ir kitas 2014/53/EU Direktyvos nuostatas.

Nederlands [Dutch]

IEI Integratie Corp dat het toestel toestel in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 2014/53/EU.

Malti [Maltese]

IEI Integration Corp jiddikjara li dan prodott jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Direttiva 2014/53/EU.

Magyar [Hungarian]

IEI Integration Corp nyilatkozom, hogy a berendezés megfelel a vonatkozó alapvető követelményeknek és az 2014/53/EU irányelvé egyéb előírásainak.

Polski [Polish]

IEI Integration Corp oświadcza, że wyrobu jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 2014/53/EU.

Português [Portuguese]

IEI Integration Corp declara que este equipamento está conforme com os requisitos essenciais e outras disposições da Directiva 2014/53/EU.

POCi-W22/24C-RPL Medical Panel PC

Româna [Romanian]

IEI Integration Corp declară că acest echipament este în conformitate cu cerințele esențiale și cu celelalte prevederi relevante ale Directivei 2014/53/EU.

Slovensko [Slovenian]

IEI Integration Corp izjavlja, da je ta opreme v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 2014/53/EU.

Slovensky [Slovak]

IEI Integration Corp týmto vyhlasuje, že zariadenia spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 2014/53/EU.

Suomi [Finnish]

IEI Integration Corp vakuuttaa täten että laitteet on direktiivin 2014/53/EU oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

Svenska [Swedish]

IEI Integration Corp förklarar att denna utrustning i styp står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2014/53/EU.

UL CLASSIFIED



The label on the product indicates this product complies with the requirements of ANSI/AAMI ES60601-1:2005/(R)2012 and A1:2012/(R)2012 and A2:2021; CAN/CSA-C22.2 No. 60601-1 (Amendment 2:2022 (MOD) to CAN/CSA-C22.2 No. 60601-1:14).

FCC WARNING

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

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.

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

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

This equipment complies with part 18 of the FCC Rules.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

POCi-W22/24C-RPL Medical Panel PC

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

ROHS STATEMENT



The label on the product indicates this product conforms to European (EU) Restriction of Hazardous Substances (RoHS) that set maximum concentration limits on hazardous materials used in electrical and electronic equipment.

KC MARK



The label on the product indicates this product complies with Korea's product safety requirements for electrical and electronic equipment.

CHINA ROHS



The label on the product indicates the estimated "Environmentally Friendly Use Period" (EFUP). This is an estimate of the number of years that these substances would "not leak out or undergo abrupt change." This product may contain replaceable sub-assemblies/components which have a shorter EFUP such as batteries and lamps. These components will be separately marked.

Appendix

B

Product Disposal

**CAUTION / ATTENTION**

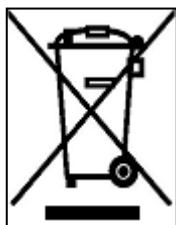
Risk of explosion if battery is replaced by an incorrect type. Only certified engineers should replace the on-board battery.

Risque d'explosion si la batterie est remplacée par un type incorrect.
Seuls les ingénieurs certifiés doivent remplacer la batterie embarquée.

Dispose of used batteries according to instructions and local regulations.

Jetez les piles usagées conformément aux instructions et aux réglementations locales.

- Outside the European Union - If you wish to dispose of used electrical and electronic products outside the European Union, please contact your local authority so as to comply with the correct disposal method.
- Within the European Union–The device that produces less waste and is easier to recycle is classified as electronic device in terms of the European Directive 2012/19/EU (WEEE), and must not be disposed of as domestic garbage.



EU-wide legislation, as implemented in each Member State, requires that waste electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes monitors and electrical accessories, such as signal cables or power cords. When you need to dispose of your display products, please follow the guidance of your local authority, or ask the shop where you purchased the product. The mark on electrical and electronic products only applies to the current European Union Member States.

Please follow the national guidelines for electrical and electronic product disposal.



Appendix

C

Maintenance and Cleaning Precautions



POCi-W22/24C-RPL Medical Panel PC

When maintaining or cleaning the POCi-W22/24C-RPL, please follow the guidelines below.



WARNING / AVERTISSEMENT

If you dropped any material or liquid such as water onto the panel PC when cleaning, unplug the power cable immediately and contact your dealer or the nearest service center. Always make sure your hands are dry when unplugging the power cable.

Si vous avez fait tomber du matériel ou du liquide tel que de l'eau sur le Panel PC lors du nettoyage, débranchez immédiatement le câble d'alimentation et contactez votre revendeur ou le centre de service le plus proche. Assurez-vous toujours que vos mains sont sèches lorsque vous débranchez le câble d'alimentation.



CAUTION / ATTENTION

- For safety reasons, turn-off the power switch and unplug the panel PC before cleaning.
Pour des raisons de sécurité, éteignez l'interrupteur d'alimentation et débranchez le Panel PC avant de le nettoyer.
- Do not scratch or rub the screen with a hard object.
Ne rayez pas et ne frottez pas l'écran avec un objet dur.
- Never use any of the following solvents on the medical panel PC. Harsh chemicals may cause damage to the cabinet and the touch sensor.
N'utilisez jamais l'un des solvants suivants sur le Panel PC médical. Les produits chimiques agressifs peuvent endommager le boîtier et le capteur tactile.

Thinner Spray-type cleaner, Benzene, Wax, Abrasive cleaner, Acid or Alkaline solvent.

Diluant nettoyant de type spray, benzène, cire, nettoyant abrasif, solvant acide ou alcalin.

C.1.1 Maintenance and Cleaning

Prior to cleaning any part or component of the POCi-W22/24C-RPL, please read the details below.

- To clean the POCi-W22/24C-RPL,
 - remove dirt with a lightly moistened cloth. Then wipe the external chassis with a soft dry cloth.
 - use 75% ethanol alcohol to clean the external chassis.
- Cleaning frequency: follow the cleaning method guidelines of the hospital.
- Except for the LCD panel, never spray or squirt liquids directly onto any other components.
- The interior of the POCi-W22/24C-RPL does not require cleaning. Keep fluids away from the POCi-W22/24C-RPL interior.
- Never drop any objects or liquids through the openings of the POCi-W22/24C-RPL.

C.1.2 Cleaning Tools

Some components in the POCi-W22/24C-RPL may only be cleaned using a product specifically designed for the purpose. In such case, the product will be explicitly mentioned in the cleaning tips. Below is a list of items to use when cleaning the POCi-W22/24C-RPL.

- **Cloth** – Although paper towels or tissues can be used, a soft, clean piece of cloth is recommended when cleaning the POCi-W22/24C-RPL.
- **Water/Ethanol alcohol** – A cloth moistened with water or 75% ethanol alcohol can be used to clean the POCi-W22/24C-RPL.
- **Using solvents** – The use of solvents is not recommended when cleaning the POCi-W22/24C-RPL as they may damage the plastic parts.
- **Cotton swabs** - Cotton swaps moistened with water are excellent tools for wiping hard to reach areas.
- **Foam swabs** - Whenever possible, it is best to use lint free swabs such as foam swabs for cleaning.

Appendix

D

Symbol Definitions

The following symbols appear on the product, its labeling, or the product packing. Each symbol carries a special definition, as defined below:

	Direct current		Fragile, handle with care
	AC current		Keep dry
	Protective earth (ground)		This side up
	Date of manufacture		Indicates the manufacturer
	Equipotentiality: When connected together, bring the various parts of an equipment or of a system to the same potential.		
	Refer to instruction manual		
	Indicates proof of conformity to applicable European Economic Community Council directives and to harmonized standards published in the official journal of the European Communities.		
	Tested to comply with FCC Class B standard.		
	This symbol indicates that the waste of electronic equipment must not be disposed as unsorted municipal waste and must be collected separately. Please contact the manufacturer or other authorized disposal company to decommission your equipment.		
	This product is recyclable.		

Appendix

E

BIOS Menu Options

System Date [xx/xx/xx]	33
System Time [xx:xx:xx]	33
Intel® SpeedStep(tm) [Enabled]	35
C States [Enabled]	36
Intel (VMX) Virtualization Technology [Enabled]	36
Active Performance-cores [All]	36
Active Efficient-cores [All]	36
Hyper-Threading [Enabled]	37
Intel Trusted Execution Technology [Disabled]	37
Power Limit 1	37
Power Limit 2	37
Power Limit 1 Time Window	38
TPM Device Selection [PTT]	38
Security Device Support [Enable]	39
Pending Operation [None]	40
Serial Port [Enabled]	41
Change Settings [Auto]	41
Serial Port [Enabled]	42
Change Settings [Auto]	42
PC Health Status	43
Wake System with Fixed Time [Disabled]	44
Console Redirection [Disabled]	46
Network Stack [Disabled]	47
Enable VMD Controller [Disabled]	52
M2_M1 / M2_M2 [Enabled]	53
PCIe Speed [Auto]	54
Restore on AC Power Loss [Last State]	54
Power Saving Function(ERP) [Disabled]	55
USB Power SW1 [+5V]	55
MPCIE1 / M1 [Enabled]	56
PCIe Speed [Auto]	56
SATA Mode Selection [AHCI]	57
HD Audio [Enabled]	58
Administrator Password	59
User Password	59

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Quiet Boot [Enabled]	60
Boot Option Priorities.....	60
Save Changes and Reset	61
Discard Changes and Reset	61
Restore Defaults	61
Save as User Defaults	62
Restore User Defaults	62

Appendix

F

Watchdog Timer

POCi-W22/24C-RPL Medical Panel PC

**NOTE:**

The following discussion applies to DOS. Contact IEI support or visit the IEI website for drivers for other operating systems.

The Watchdog Timer is a hardware-based timer that attempts to restart the system when it stops working. The system may stop working because of external EMI or software bugs. The Watchdog Timer ensures that standalone systems like ATMs will automatically attempt to restart in the case of system problems.

A BIOS function call (INT 15H) is used to control the Watchdog Timer.

INT 15H:

AH – 6FH Sub-function:	
AL – 2:	Sets the Watchdog Timer's period.
BL:	Time-out value (Its unit-second is dependent on the item "Watchdog Timer unit select" in CMOS setup).

Table F-1: AH-6FH Sub-function

Call sub-function 2 to set the time-out period of Watchdog Timer first. If the time-out value is not zero, the Watchdog Timer starts counting down. When the timer value reaches zero, the system resets. To ensure that this reset condition does not occur, calling sub-function 2 must periodically refresh the Watchdog Timer. However, the watchdog timer is disabled if the time-out value is set to zero.

A tolerance of at least 10% must be maintained to avoid unknown routines within the operating system (DOS), such as disk I/O that can be very time-consuming.

**NOTE:**

The Watchdog Timer is activated through software. The software application that activates the Watchdog Timer must also deactivate it when closed. If the Watchdog Timer is not deactivated, the system will automatically restart after the Timer has finished its countdown.

EXAMPLE PROGRAM:

; INITIAL TIMER PERIOD COUNTER

;

W_LOOP:

;

```
MOV      AX, 6F02H      ;setting the time-out value
MOV      BL, 30          ;time-out value is 48 seconds
INT      15H
```

;

; ADD THE APPLICATION PROGRAM HERE

;

```
CMP      EXIT_AP, 1      ;is the application over?
JNE      W_LOOP          ;No, restart the application
```

```
MOV      AX, 6F02H      ;disable Watchdog Timer
MOV      BL, 0           ;
INT      15H
```

;

; EXIT ;

Appendix

G

Hazardous Materials Disclosure



G.1 RoHS II Directive (2015/863/EU)

The details provided in this appendix are to ensure that the product is compliant with the RoHS II Directive (2015/863/EU). The table below acknowledges the presences of small quantities of certain substances in the product, and is applicable to RoHS II Directive (2015/863/EU).

Please refer to the following table.

Part Name	Toxic or Hazardous Substances and Elements									
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (CR(VI))	Polybrominated Biphenyls (PBBs)	Polybrominated Diphenyl Ethers (PBDEs)	Bis(2-ethylhexyl) phthalate (DEHP)	Butyl benzyl phthalate (BBP)	Dibutyl phthalate (DBP)	Diisobutyl phthalate (DIBP)
Housing	O	O	O	O	O	O	O	O	O	O
Display	O	O	O	O	O	O	O	O	O	O
Printed Circuit Board	O	O	O	O	O	O	O	O	O	O
Metal Fasteners	O	O	O	O	O	O	O	O	O	O
Cable Assembly	O	O	O	O	O	O	O	O	O	O
Fan Assembly	O	O	O	O	O	O	O	O	O	O
Power Supply Assemblies	O	O	O	O	O	O	O	O	O	O
Battery	O	O	O	O	O	O	O	O	O	O
O: This toxic or hazardous substance is contained in all of the homogeneous materials for the part is below the limit requirement in Directive (EU) 2015/863.										
X: This toxic or hazardous substance is contained in at least one of the homogeneous materials for this part is above the limit requirement in Directive (EU) 2015/863.										



POCi-W22/24C-RPL Medical Panel PC

G.2 China RoHS

此附件旨在确保本产品符合中国 RoHS 标准。以下表格标示此产品中某有毒物质的含量符合中国 RoHS 标准规定的限量要求。

本产品上会附有“环境友好使用期限”的标签，此期限是估算这些物质“不会有泄漏或突变”的年限。本产品可能包含有较短的环境友好使用期限的可替换元件，像是电池或灯管，这些元件将会单独标示出来。

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (CR(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
壳体	O	O	O	O	O	O
显示	O	O	O	O	O	O
印刷电路板	O	O	O	O	O	O
金属螺帽	O	O	O	O	O	O
电缆组装	O	O	O	O	O	O
风扇组装	O	O	O	O	O	O
电力供应组装	O	O	O	O	O	O
电池	O	O	O	O	O	O
O: 表示该有毒有害物质在该部件所有物质材料中的含量均在 SJ/T11364-2014 與 GB/T26572-2011 标准规定的限量要求以下。 X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11364-2014 與 GB/T26572-2011 标准规定的限量要求。						