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MÖDEL: POC-W22A-H81

ACARCELETION CONTRACT (00)-ECONTRACTOR (00)-ECONTRACTOR (00) (

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21.5" Medical Panel PC with 4th Generation Intel® Dual-Core CPU, Touchscreen, Anti-bacteria Cover, Dual USB 3.0, Dual GbE LAN, RS-232/422/485, HDMI, VGA, Front IP 65 Rating and RoHS

. .

User Manual



Rev. 1.01 - January 24, 2017

Revision

Date	Version	Changes
January 24, 2017	1.01	Minor update
October 17, 2016	1.00	Initial release



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CONTACT INFORMATION

IEI Integration Corp.

Address:	No. 29, Zongxing Rd., Xizhi Dist.,
	New Taipei City 221, Taiwan
Phone:	+886-2-8691-6798
Fax:	+886-2-6616-0028
Web Site:	www.ieiworld.com
Sales Email:	sales@ieiworld.com.tw

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Manual Conventions



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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.



HOT SURFACE

This symbol indicates a hot surface that should not be touched without taking care.



OPERATING INSTRUCTION

Follow operating instructions or consult instructions for use.



IEC 60417-5009: STAND-BY



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Introduction





1.1 Overview



Figure 1-1: POC-W22A-H81 Medical Panel PC

The POC-W22A-H81 is a 4th generation Intel® Core[™]/Pentium® CPU powered medical-grade panel PC with a rich variety of functions and peripherals. All POC-W22A-H81 models are designed for easy and simplified integration into point-of-care (POC) applications.

An Intel® Core[™] i5/Core[™] i3/Pentium® processor coupled with the Intel® H81 chipset delivers optimal memory, graphics, and peripheral I/O support. The system comes with 4.0 GB of pre-installed DDR3 SO-DIMMs and supports a maximum of 16.0 GB ensuring smooth data throughputs with reduced bottlenecks and fast system access. Dual display support is provided via the HDMI port or the VGA port.

One RS-232/422/485 serial port, two USB 3.0 ports and four USB 2.0 ports provide simplified connectivity to a variety of external peripheral devices. Wi-Fi 802.11a/b/g/n/ac high speed wireless and two RJ-45 GbE connectors allow for smooth connection of the system to an external LAN. The system also equips with a SATA interface, supporting both SATA HDD and SSD.

In addition, the POC-W22A-H81 features Intelligent Platform Management Interface 2.0 (IPMI 2.0) that helps lower the overall costs of server management by enabling users to maximize IT resource, save time and manage multiple systems. The POC-W22A-H81 supports IPMI 2.0 through the optional iRIS-2400 module.



The POC-W22A-H81 medical panel PC is intended to be used to review and update electronic medical records (EMR) in hospital information system (HIS). The device is not suitable for diagnosis display.

Equipment connected to analog or digital interfaces must comply with the respective IEC Standards (e.g. IEC 60950 for data processing equipment and IEC 60601-1 for medical equipment). Furthermore all configurations shall comply with the current version of the standard for SYSTEMS IEC 60601-1-1. Everybody who connects additional equipment to the signal input part or signal output part configure a medical system, and is therefore responsible that the system complies with current version of the requirements of the system standard IEC 60601-1-1. If in doubt, consult the technical service department or your local representative.

1.2 Model Variations

There are three models in the POC-W22A-H81 series. All models are preinstalled with two 2 GB DDR3 memory modules and an 802.11a/b/n/ac Wi-Fi module. The model numbers and model variations are listed below.

Model	CPU
POC-W22A-H81-P/PC/4G	Intel® Pentium® G3320TE (dual-core, 2.3 GHz, TDP 35 W)
POC-W22A-H81-i3/PC/4G	Intel® Core™ i3-4330TE (dual-core, 2.4 GHz, TDP 35 W)
POC-W22A-H81-i5/PC/4G	Intel® Core™ i5-4570TE (dual-core, 2.7 GHz, TDP 35 W)

Table 1-1: Model Variations

1.3 Features

The POC-W22A-H81 features are listed below:

- 21.5" (16:9) flat-bezel LCD with LED backlight
- Anti-bacteria cover
- 4th generation Intel® CoreTM i5, CoreTM i3 or Pentium ® processor
- Pre-installed with 4 GB of DDR3 SO-DIMM memory (system max. 16 GB)
- Projected capacitive type touchscreen
- Two PCIe GbE RJ-45 connectors and Wi-Fi 802.11a/b/g/n/ac high speed wireless
- Two internal 3 W speakers
- Four USB 2.0 ports and two USB 3.0 ports
- 12 V 28 V wide range DC power input
- Optional internal 54 W battery module
- One RS-232/422/485 serial port by D-sub 9 connector
- IP 65 compliant front panel
- Optional Mifare RFID reader
- Optional 3-in-1 card reader (supports magnetic stripe card, smart card and fingerprint)
- Optional VoIP phone handset
- Optional handle module with 1D/2D barcode scanner and reading light

1.4 Front Panel

The front side of the POC-W22A-H81 is a flat-bezel panel with a TFT LCD screen surrounded by a PC/ABS plastic frame (**Figure 1-2**).

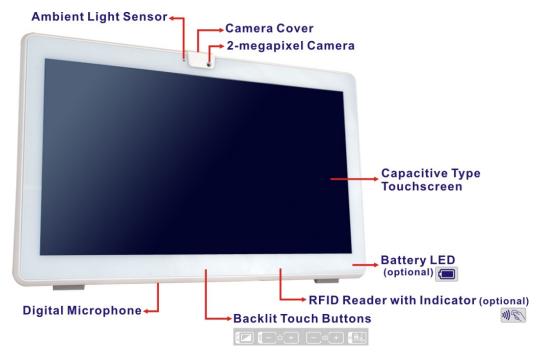


Figure 1-2: Front View

If the POC-W22A-H81 is installed with an optional UPS battery module, there will be a battery LED indicator located on the front panel. The UPS battery can provide backup power for 30 minutes in idle mode, and the maximum discharge voltage is 3.7 A. The POC-W22A-H81 will shutdown when the discharge voltage is over 3.7 A. The status descriptions of the battery LED indicator are listed below.

- Solid amber: the battery is being charged
- Solid blue: the system is using battery power or the battery is fully charged.
- Blinking amber: the battery is low (<30%). The battery indicator blinks regularly then turns off after 5 minutes.

Detail information about the UPS battery is described in Section 3.6.

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1.4.1 Backlit Touch Buttons

The front panel of the POC-W22A-H81 contains several backlit touch buttons that control audio volume, LCD brightness and some other system components.



Figure 1-3: Backlit Touch Buttons

The following table describes the function of each button.

Button	Function	
F	LCD on/off (the touch buttons blink when the LCD is turned off)	
٩ −.;ö:(+)	 -: Brightness down or lock/unlock OSD (with function key) (minimum brightness: 5%) 	
	+: Brightness up (maximum brightness: 100%)	
(-) d»(+)	–: Volume down +: Volume up	
	Touch lock for cleaning: long-press for 3 seconds to lock or unlock the touch function of the screen. The touch buttons blink when the touch function is locked. The lock will be automatically disabled after 2 minutes.	
f □ + f −.ÿ:	Lock or unlock the touch buttons: long-press for 3 seconds to lock or unlock the touch buttons. The touch buttons blink when the touch buttons are locked.	
	Power on: long-press for 3 seconds. All touch buttons blink 3 times, and the system starts to boot.	
	Power off: long-press for 3 seconds. All touch buttons blink 3 times, and the system starts to shut down.	

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



1.5 Side Panels

The left side panel has two USB 2.0 ports which are protected by a waterproof cover. The right side panel has a space for I/O interface expansion by installing a PCIe Mini I/O card.

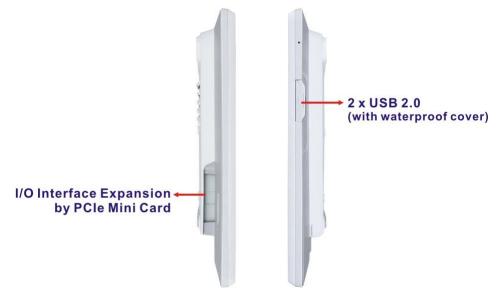


Figure 1-4: Side View

1.6 Bottom Panel

The bottom panel of the POC-W22A-H81 has the following connectors and switches (**Figure 1-5**):

- 1 x 12 V ~ 28 V DC input power jack
- 1 x RS-232/422/485 DB-9 connector
- 1 x Barcode reader RJ-11connector
- 2 x GbE RJ-45 connector
- 2 x USB 3.0 connector
- 2 x USB 2.0 connector
- 1 x HDMI connector
- 1 x VGA connector
- 1 x AT/ATX switch
- 1 x Power button
- 1 x Reset button

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1.7 Rear Panel

The rear panel provides access to retention screw holes that support VESA mounting. See **Figure 1-6**.

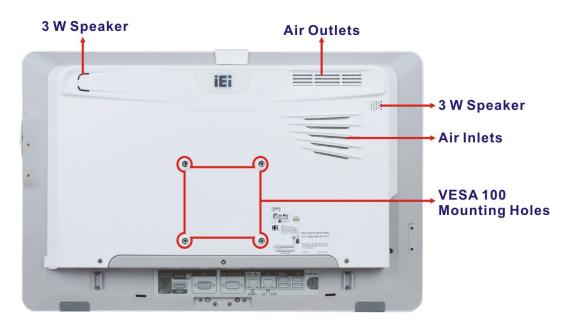


Figure 1-6: Rear View

1.8 System Specifications

The technical specifications for the POC-W22A-H81 systems are listed in Table 1-3.

Specification	POC-W22A-H81
CPU	Intel® Pentium® G3320TE (dual-core, 2.3 GHz, TDP 35 W)
	Intel® Core™ i3-4330TE (dual-core, 2.4 GHz, TDP 35 W)
	Intel® Core™ i5-4570TE (dual-core, 2.7 GHz, TDP 35 W)
Chipset	Intel® H81
Memory	Two 204-pin 1600/1333 MHz dual-channel DDR3 SO-DIMM slots
	preinstalled with two 2 GB SDRAM (system max. 16 GB)
Storage	One PCIe Mini card slot for mSATA module installation (ATO)
	One 2.5" SATA HDD bay
Auto-dimming	Built-in ambient light sensor for panel brightness adjustment
LCD and Touchscreen	
LCD Size	21.5" (16:9)
Max. Resolution	1920 (W) x 1080 (H)
Brightness (cd/m ²)	250
Contrast Ratio	1000:1
LCD Color	16.7M
Pixel Pitch (mm)	0.24825 (H) x 0.24825 (V)
Viewing Angle (H-V)	170° / 160°
Backlight MTBF	30,000 hrs
Backlight	LED
Touchscreen	Projected capacitive type with USB interface
Surface Hardness	6Н

Network Connection		
Wireless	One pre-installed wireless LAN module (half-size PCIe Mini card)	
	supports 802.11a/b/g/n/ac	
LAN	Dual GbE connector	
Audio		
Audio	Realtek ALC892 HD Audio codec	
Internal Speaker	Two 3 W speakers	
Camera	2-megapixel with auto focus and digital microphone	
Handset	Optional VoIP phone handset	
Optional Features		
Battery	Optional 3550 mAH, 54 W internal Li-Ion battery with LED indicator	
Remote Management	One iRIS-2400 slot supports iRIS remote management module	
RFID Reader	Optional Mifare 13.56 MHz card reader (with LED indicator)	
Card Reader	Optional 3-in-1 card reader supports magnetic stripe card, smart	
	card and fingerprint	
Handle	Optional handle with/without 1D/2D barcode reader and reading	
	light	
Connectors		
I/O Ports	1 x 12 V ~ 28 V DC input jack	
	1 x Barcode reader connector (RJ-11)	
	1 x HDMI connector	
	1 x RS-232/422/485 serial port (DB-9 connector)	
	2 x GbE LAN (RJ-45 connector)	
	2 x USB 3.0 connectors	
	4 x USB 2.0 connectors	

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	1 x VGA connector		
Buttons, Switches and In	dicators		
Backlit Touch Buttons	Six touch buttons (LCD on/off, brightness up, brightness down,		
	volume up, volume down, lock/unlock touch function)		
Buttons & Switches	1 x Power button		
	1 x AT/ATX switch		
	1 x Reset button		
LED Indicators	2-light battery status LED indicator (optional)		
	RFID LED indi	cator (optional)	
Physical			
Construction Material	PC+ABS plastic with anti-bacterial material		
VESA Mount	100 mm x 100 mm		
Dimensions (W x H x D)	542.5 mm x 349.5 mm x 52 mm		
Net Weight	7.3 kg		
Environment			
	Temperature -20°C ~ 60°C		
Transportation/Storage	Humidity 10% ~ 95% (non-condensing)		
	Pressure 700 hPa ~ 1060 hPa		
	Temperature 0°C ~ 40°C		
Operating	Humidity 10% ~ 95% (non-condensing)		
	Pressure 700 hPa ~ 1060 hPa		
Vibration	1G		
Shock	Operating Shock: 5G peak acceleration (11ms duration)		
	Non-Operating Shock: 15G peak acceleration (11ms duration)		



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IP Level	IP 65 compliant front panel	
Safety/EMC	CE, FCC class B part 18, UL 60601-1, EN 60601-1	
Power		
Power Supply	120 W medical-grade power adapter (FSP PMP120-13-2)	
	Input: 100 V AC ~ 240 V AC, 47 Hz ~ 63 Hz, 1.4 A ~ 0.6 A	
	Output: 120 W Max., 19 V 6.32 A	
Power Requirement	12 V ~ 28 V DC	

Table 1-3: System Specifications

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1.9 Dimensions

The POC-W22A-H81 dimensions are shown below.

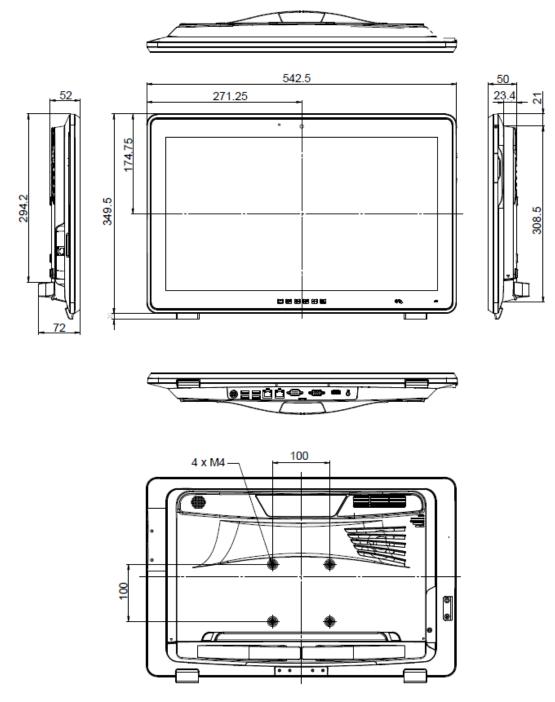


Figure 1-7: Dimensions (mm)



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Unpacking

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2.1 Unpacking

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

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.

- Step 1: Use box cutters, a knife or a sharp pair of scissors that seals the top side of the external (second) box.
- **Step 2:** Open the external (second) box.
- **Step 3:** Use box cutters, a knife or a sharp pair of scissors that seals the top side of the internal (first) box.
- **Step 4:** Lift the monitor 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.

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2.2 Packing List



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 POC-W22A-H81 was purchased from or contact an IEI sales representative directly by sending an email to <u>sales@ieiworld.com</u>.

The POC-W22A-H81 medical panel PC is shipped with the following components:

Quantity	Item	Image
1	POC-W22A-H81 medical panel PC	
1	Medical-grade power adapter (120 W, 19 V DC output) (P/N : 63040-010120-010-RS)	
1	Power cord (P/N : 32702-000200-100-RS)	
4	Pan-head screw (M3*5) for HDD installation (P/N : 44043-030051-RS)	??? ?
1	Quick Installation Guide	



1	Utility CD	
1	One Key Recovery CD	

2.3 Optional Items

The following are optional components which may be separately purchased:

Item and Part Number	Image
3-in-1 reader (smart card / magnetic card / fingerprint) (P/N : MEDP-CR-R10)	
Handle	t
(P/N : MEDP-HD-R10)	
Handle with 1D/2D barcode reader and reading light	t
(P/N : MEDP-HD-BR-R10)	



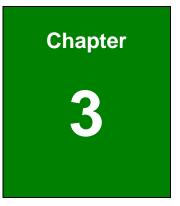
Item and Part Number	Image
Handset (USB interface) and holder (P/N : MEDP-HS-R10)	0
Cable cover (P/N : POCP-CC01-R10)	
EZ Stand with cabling hole, VESA 100 (P/N : MEDP-EZS-R10)	
VESA 100 wall mount kit (four M3*6 screws included) (P/N : AFLWK-19B)	R C C C C C C C C C C C C C C C C C C C
Arm (P/N : ARM-31-RS)	Toronto and the second se
Stand (P/N : STAND-A21-R10)	

Item and Part Number	Image
iRIS module (assemble-to-order)	RIS-2400-RIO VER 10
(P/N : iRIS-2400-R10)	
Trusted platform module (assemble-to-order)	
(P/N : MEDP-TPM-R10)	88888888888888888888888888888888888888
14.8 V 3550 mAH Li-ion battery	
(Getac BAT003-4S1P3550-0, assemble-to-order)	
(P/N : MEDP-BAT-R10)	
Mifare RFID reader compliant with ISO 14443A, ISO	Ello- PENSORI
14443B and ISO 15693 protocols (assemble-to-order)	
(P/N : MEDP-MF-RFID-R10)	

If any of these items are missing or damaged, contact the distributor or sales representative immediately.

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Installation

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3.1 Anti-static Precautions



Failure to take ESD precautions during the maintenance of the POC-W22A-H81 may result in permanent damage to the POC-W22A-H81 and severe injury to the user.

Electrostatic discharge (ESD) can cause serious damage to electronic components, including the POC-W22A-H81. Dry climates are especially susceptible to ESD. It is therefore critical that whenever the POC-W22A-H81 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 POC-W22A-H81, place it on an anti-static pad. This reduces the possibility of ESD damaging the POC-W22A-H81.
- Only handle the edges of the PCB: When handling the PCB, hold the PCB by the edges.

3.2 Installation Precautions

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

- Manufacturer authorization: Do not modify this equipment without authorization of manufacturer.
- 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 configure the jumpers or plug in added peripheral devices, ground themselves first and wear an anti-static wristband.

3.3 Installation and Configuration Steps

The following installation steps must be followed.

- Step 1: Unpack the medical panel PC.
- Step 2: Install a HDD.
- Step 3: Install necessary accessories (handset, handle or combo reader)
- Step 4: Configure the system.
- Step 5: Connect peripheral devices to the medical panel PC.
- Step 6: Mount the medical panel PC.

3.4 Removing the Back Cover

To access the POC-W22A-H81 internally the back cover must be removed. To remove the back cover, please follow the steps below.

Step 1: Remove the two retention screws from the back cover (Figure 3-1).



Figure 3-1: Back Cover Retention Screws

Step 2: The back cover is attached to the chassis through a magnetic force. To remove the back cover, grasp the back cover finger grips (as shown in Figure 3-2) and lift the cover up.



Figure 3-2: Remove the Back Cover

3.5 HDD Installation

To install the HDD into the system, please follow the steps below:

- **Step 1:** Remove the back cover. See **Section 3.4** above.
- **Step 2:** Remove the two HDD bracket retention screws (**Figure 3-3**) and lift the HDD bracket off the panel PC.

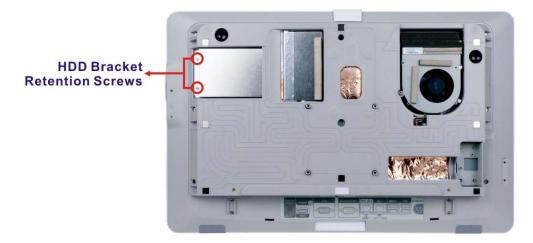


Figure 3-3: HDD Bracket Retention Screws

Step 3: Slide the bottom bracket to remove it from the HDD cover (**Figure 3-4**).

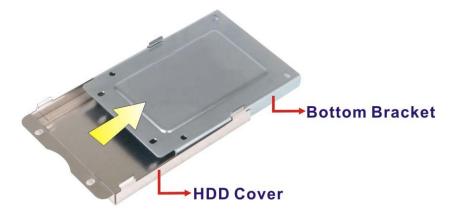


Figure 3-4: HDD Bottom Bracket Removal

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POC-W22A-H81 Medical Panel PC

Step 4: Attach the bottom bracket to the HDD. To do this, align the four retention screw holes in the bottom of the HDD bracket with the retention screw holes on the bottom of the HDD. Insert four retention screws (M3*5) into the bracket (Figure 3-5).



Figure 3-5: HDD Retention Screws

Step 5: Slide the bottom bracket into the HDD cover (Figure 3-6).



Figure 3-6: HDD Cover Installation

Step 6: Install the HDD into the POC-W22A-H81 by inserting and connecting the HDD to the SATA connectors. Then, secure the HDD bracket to the chassis with the previously removed retention screws. See Figure 3-7.





Figure 3-7: HDD Installation

Step 7: Replace the back cover and secure it using two retention screws.

3.6 UPS Battery

An optional UPS battery can be assembled to order to provide backup power for up to 30 minutes in case of a power interruption. The battery LED indicator is located on the front panel. The LED status descriptions are described in **Section 1.4**.



The following precautions should be followed when using the battery:

- Do not use battery power to boot up the POC-W22A-H81.
- Charge the battery with a voltage higher than 16.8 V.
- Charging time (from 30% to 100%):
 - O System off: 3 hours
 - O System on: 2 hours
- Risk of explosion if battery is replaced by an incorrect type. Only certified engineers should replace the on-board battery.
- Dispose of used batteries according to instructions and local regulations.



3.7 Handset Installation (Optional)

An optional phone handset can be installed on the side of the POC-W22A-H81 to make VoIP calls. To install the handset and the holder, please follow the instruction below.

- **Step 1:** Locate the two retention screw holes for installing the handset holder on the rear panel.
- Step 2: Secure the handset holder with the POC-W22A-H81 by two retention screws (M3*8, flat head).



Figure 3-8: Handset Holder Retention Screws

- Step 3: Plug the handset cord into a USB connector on the bottom panel.
- Step 4: Place the handset in the holder.





Figure 3-9: Handset Installation

3.7.1 Using VoIP Handset

The VoIP handset is designed for Skype. To use the handset to place or receive a call via Skype, please follow the steps below.

- Step 1: Install the Skype program (<u>http://www.skype.com/en/</u>).
- Step 2: Select Other from the list of the driver CD. Double click the setup file in the POCP-W22A-HS-R10_U-2000H folder to install the handset driver (Figure 3-10).

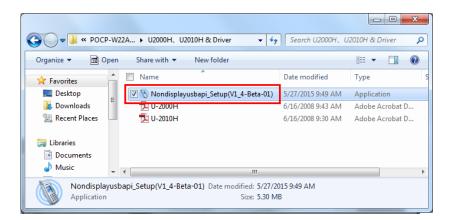


Figure 3-10: Handset Driver Folder

Step 3: Follow the step-by-step instruction of the installation wizard (Figure 3-11) to

install the handset driver.

🛞 Setup - Nondisplayusbapi	
	Welcome to the Wondershare Time Freeze Setup Wizard.
	It is recommended that you close all other applications before continuing.
	Click Next to continue, or Cancel to exit Setup.
	Next > Cancel

Figure 3-11: Handset Driver Installation

Step 4: Launch Skype. Press the Allow access button on Skype (Figure 3-12) to allow handset API access.

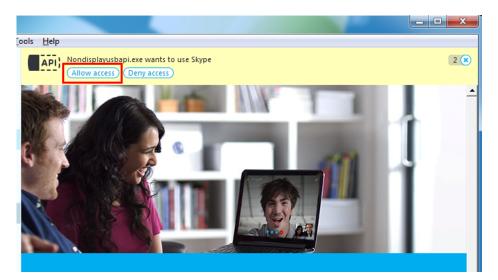


Figure 3-12: Allow API Access

API access can also be managed through **Tools** → **Options** → **Advanced settings** in Skype. See **Figure 3-13**.



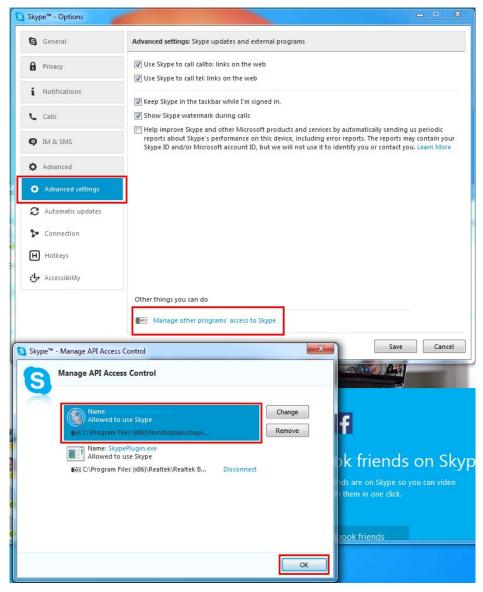


Figure 3-13: Manage Program Access to Skype

Step 5: The user can now use Skype via the handset. The function description of each button on the handset is listed in the following table.

Button	Function
	LED indicator:
	Clear - no call activity
	Blinking green – incoming call ringing
	Steady green – active call
\bullet	Hot key:
	No call activity - launch Skype and select menus
	* long-press the hot key for 2 seconds to turn off Skype
	Ringing - terminate the incoming call
	Active call - mute or unmute the handset microphone
	No call activity – scroll up through incoming and outgoing call history
	Active call – handset speaker volume up
	No call activity – scroll down through incoming and outgoing call history
	Active call – handset speaker volume down
~	Place, answer or hang up a call.

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Table 3-1: Handset Button Functions

3.8 Handle Installation (Optional)

An optional handle can be installed on the POC-W22A-H81 for the user to easily adjust the viewing angle and the position of the POC-W22A-H81. To install the handle, please follow the instruction below.

- **Step 1:** Locate the retention screw holes for installing the handle on the rear panel. If a cable cover is installed on the rear panel, please remove it first.
- Step 2: Secure the handle with the POC-W22A-H81 by inserting eight retention screws (M3*6L, flat head).





Figure 3-14: Handle Installation

3.8.1 Barcode Reader Installation

The optional handle may come with a barcode reader set which also contains a reading light with three levels of brightness. To install the barcode reader set, please follow the instruction below.

- **Step 1:** Follow the instruction described above to install the handle.
- Step 2: Insert the barcode reader set into the slot in the center of the handle. To be able to insert the barcode reader, the side with barcode reader must face toward the right side of the POC-W22A-H81 as shown in Figure 3-15.



Figure 3-15: Insert Barcode Reader Set

- **Step 3:** Push the barcode reader set all the way down, and then rotate the barcode reader anti-clockwise to a proper position (**Figure 3-16**).
- Step 4: Connect the barcode reader cable to the RJ-11 connector on the bottom panel of the POC-W22A-H81 (Figure 3-16).



Figure 3-16: Install and Connect Barcode Reader Set

- Step 5: Install the driver for the barcode reader by following the instructions described inSection 4.13.
- **Step 6:** After driver installation is complete, push the barcode reader button to trigger the barcode reader.





Figure 3-17: Barcode Reader Button



Do not stare into beam of the laser light. The human eye can be damaged. Avoid that the laser beam hits reflective surfaces such as mirrors, etc. Any changes at the device are forbidden these could cause a dangerous laser light.

3.8.2 Reading Light

The barcode reader is also equipped with a reading light with 3-level of brightness. Push the reading light button to turn on or to toggle illumination brightness levels.

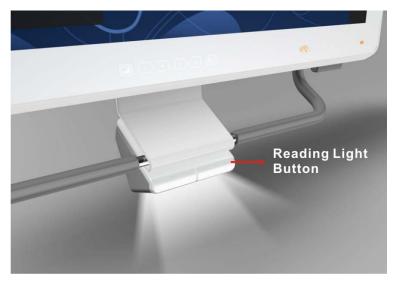


Figure 3-18: Reading Light

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3.9 3-in-1 Combo Reader Installation (Optional)

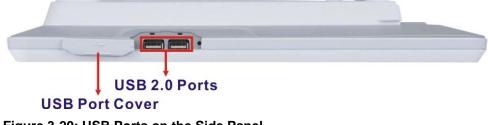
The 3-in-1 combo reader is an optional item for the POC-W22A-H81. The combo reader combines fingerprint reader, smart card reader (SCR) and magnetic stripe reader (MSR) into one compact device.



Figure 3-19: 3-in-1 Combo Reader

To install the combo reader to the POC-W22A-H81, please follow the steps below.

Step 1: Open the USB port cover on the side panel of the POC-W22A-H81. Secure the cover by rotating the cover and inserting the stub into the hole on the side panel.



- Figure 3-20: USB Ports on the Side Panel
- Step 2: Align the USB connectors on the reader with the two USB connectors on the side panel of the POC-W22A-H81.
- Step 3: Insert and connect the USB connectors to install the combo reader. See Figure 3-21.







Figure 3-21: Combo Reader Installation

Step 4: Secure the combo reader to the system by inserting two retention screws (M3x5L) into the rear panel of the POC-W22A-H81 and tightening them.



Figure 3-22: Secure the Combo Reader

Step 5: Install the drivers for these three readers by following the instructions described

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in Chapter 4:

- Section 4.12.1: SCR Driver
- Section 4.12.2: MSR Driver
- Section 4.12.3: Fingerprint Reader Driver

3.10 Using RFID Reader (Optional)

The POC-W22A-H81 may come with an optional RFID reader pre-installed inside the bottom of the front panel. To use the RFID reader, follow the steps below.

Step 1: Install the RFID driver (refer to Section 4.11).

Step 2: Locate the **IRFR-100.exe** file in the following folder of the driver CD:

\Docs\10.Other\POCP-MF-RFID-R10\RFID\D490. Copy the **IRFR-100.exe** program to the desktop.

	P-MF-RFID-R10 ▶ RFID ▶ D490 ▶	f Search D490	Ļ
Organize 🔻 Inclu	de in library Share with New folder		= • 🔟 🔞
쑦 Favorites	Name	Date modified	Туре
🧮 Desktop	ush driver	10/8/2015 3:18 PM	File folder
鷆 Downloads	E IRFR-100	10/6/2010 6:05 PM	Application
🖳 Recent Places	IRFR-100_AP_UserGuide	6/19/2012 2:12 PM	Adobe Acrobat D
🥽 Libraries			
Documents			
🌙 Music			
Pictures	• • III		
3 items			

Figure 3-23: RFID Program Location

Step 3: Double click the IRFR-100 icon on the desktop.



Figure 3-24: IRFR-100 Icon

Step 4: The IRFR-100 window appears (Figure 3-25).

IRFR-100 Control			- • •
15693 Find tags			1
Commands C Inventory Read Single Block Vrite Single Block C Lock Block Read Multiple Blocks Write Multiple Blocks	Tag Flags Double Sub-carrier High Data Rate Aft is present One slot Dption	Data Coding Mode 1 out of 4 v G Full Power C Half Power Set Protocol	Special functions
C Stay Quiet Select Reset to Ready Virite AFI Lock AFI Lock DSFID Get System Info	Tag Data UID (First) Block Number Number of Blocks Data DSFID AFI	Tag Info Number of Blocks Block Size	Select Port
C Get Mult.Blk.Sel Status		Execute	
01:54:47.329 COM7 01:54:47.376 → 01080003 01:54:47.423 ~ -> 01080003 TRF7960 EVM 01:54:47.532 **** COM Port	04FF0000		E Clear Log

Figure 3-25: IRFR Screen

Step 5: Select the **Find tags** tab and click the **Run** button to enable the RFID reader

(Figure 3-26).

IRFR-100 Cont		
15693 Find tag 15693 Count UIDs	gs Count UIDs 144438 Count PUPIs PUPIs	Special functions AGC on Main channel AM Enable TRF7960
	▼ V T T T T T T T T T T T T T T T T T T	
00:45:33.763 00:45:33.826 00:45:33.872 TRF7960 EVM 00:45:33.997	COM7 > 0108000304FF0000 < 0108000304FF0000	E Clear Log

Figure 3-26: IRFR – Find Tags



Step 6: Place an RFID card near the RFID reader **M** on the bottom of the front

panel (**Figure 1-2**) then remove it. The card number will be shown in the UIDs column (**Figure 3-27**).

15693	Find tags	
- 1569 Count UIDs		R
0103		

Figure 3-27: IRFR – UIDs



Please refer to the IRFR-100 user guide in the driver CD (IRFR-100_AP_UserGuide.pdf) for detailed instruction on how to use the IRFR-100.



3.11 RS-232/422/485 Serial Port Connection

The bottom panel of the POC-W22A-H81 has one D-sub 9 male connectors for RS-232/422/485 connection. The serial communication mode selection can be made through the BIOS options. Please refer to **Section 5.3.7.1.1** for detail information. The pinouts of the D-sub 9 connector are listed below.

Pin	RS-232	RS-422	RS-485	.6
1	DCD	TXD422-	TXD485-	
2	RX	TXD422+	TXD485+	
3	ТХ	RXD422+		
4	DTR	RXD422-		
5	GND			
6	DSR			
7	RTS			
8	CTS			
9	RI			

Table 3-2: RS-232/422/485 Serial Port Pinouts

3.12 AT/ATX Mode Selection

AT or ATX power mode can be used on the POC-W22A-H81. The selection is made through an AT/ATX switch located on the bottom panel (**Figure 3-28**).



Figure 3-28: AT/ATX Switch Location

3.12.1 AT Power Mode

With the AT mode selected, the power is controlled by a central power unit rather than a power switch. The POC-W22A-H81 panel PC turns on automatically when the power is connected.

3.12.2 ATX Power Mode

With the ATX mode selected, the POC-W22A-H81 panel PC goes in a standby mode when it is turned off. The panel PC can be easily turned on via network or a power switch in standby mode.

3.13 Cable Cover Installation

An optional cable cover can be installed on the POC-W22A-H81 for the user to easily manage cables. To install the cable cover, please follow the instruction below.

Step 1: Align the three tabs on the rear of the cable cover with the slots on the bottom panel of the POC-W22A-H81 (**Figure 3-29**). Then, insert the tabs into the slots.

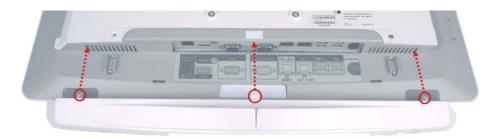


Figure 3-29: Aligning Tabs on the Bottom Panel

Step 2: Push the two tabs on the cable cover (as shown in Figure 3-30) into the slots on the rear panel of the POC-W22A-H81 one by one. More strength is required to push the tabs into the slots.

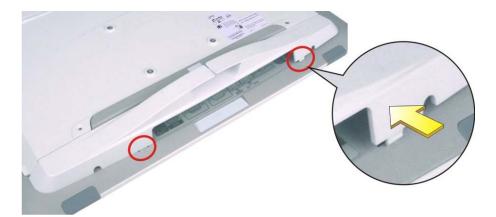


Figure 3-30: Cable Cover Installation



Step 3: To remove the cable cover, push the two tabs inwards to release the cover

(Figure 3-31), and lift the cover from the POC-W22A-H81.



Figure 3-31: Cable Cover Removal

3.14 Mounting the System

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The methods of mounting the POC-W22A-H81 are listed below.

- Wall mounting
- Arm mounting
- Stand mounting

The mounting methods are described below.



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

3.14.1 Wall Mounting

To mount the medical panel PC onto the wall, please follow the steps below.

- Step 1: Select the location on the wall for the wall-mounting bracket.
- Step 2: Carefully mark the locations of the four screw holes in the bracket on the wall.

- **Step 3:** Drill four pilot holes at the marked locations on the wall for the bracket retention screws.
- **Step 4:** Align the wall-mounting bracket screw holes with the pilot holes.
- Step 5: Secure the mounting-bracket to the wall by inserting the retention screws into the four pilot holes and tightening them (Figure 3-32).

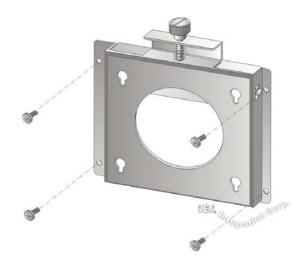


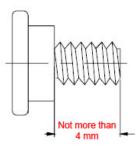
Figure 3-32: Wall-mounting Bracket



Step 6: Insert the four monitor mounting screws provided in the wall mount kit into the four screw holes on the real panel of the medical panel PC and tighten until the screw shank is secured against the rear panel (Figure 3-33).

🖄 WARNING:

Please use the M4 screws provided in the wall mount kit for the rear panel. If the screw is missing, the thread depth of the replacement screw should be not more than 4 mm.



- **Step 7:** Align the mounting screws on the monitor rear panel with the mounting holes on the bracket.
- Step 8: Carefully insert the screws through the holes and gently pull the monitor downwards until the monitor rests securely in the slotted holes (Figure 3-33).
 Ensure that all four of the mounting screws fit snugly into their respective slotted holes.



In the diagram below the bracket is already installed on the wall.



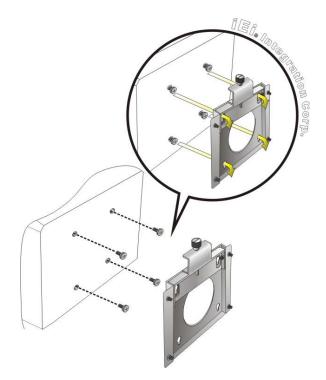


Figure 3-33: Chassis Support Screws

Step 9: Secure the panel PC by fastening the retention screw of the wall-mounting bracket (Figure 3-34).

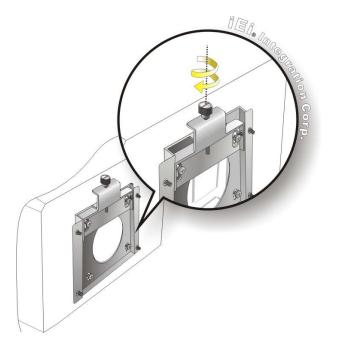


Figure 3-34: Secure the Panel PC



3.14.2 Arm Mounting

The POC-W22A-H81 is VESA (Video Electronics Standards Association) compliant and can be mounted on an arm with a 100 mm interface pad. To mount the POC-W22A-H81 on an arm, please follow the steps below.

Step 1: The arm is a separately purchased item. Please correctly mount the arm onto the surface it uses as a base. To do this, refer to the installation documentation that came with the mounting arm.



When purchasing the arm please ensure that it is VESA compliant and that the arm has a 100 mm interface pad. If the mounting arm is not VESA compliant it cannot be used to support the POC-W22A-H81 medical panel PC.

- **Step 2:** Once the mounting arm has been firmly attached to the surface, lift the panel PC onto the interface pad of the mounting arm.
- **Step 3:** Align the retention screw holes on the mounting arm interface with those in the panel PC (**Figure 3-35**).

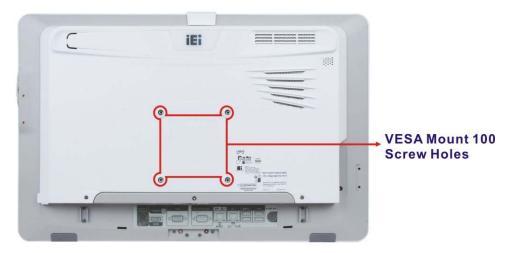


Figure 3-35: Arm Mounting Retention Screw Holes



Step 4: Secure the POC-W22A-H81 to the interface pad by inserting four retention screws through the mounting arm interface pad and into the POC-W22A-H81.

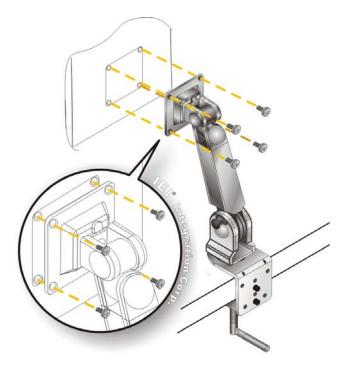


Figure 3-36: Arm Mounting

3.14.3 Stand Mounting

To mount the POC-W22A-H81 using the EZ stand mounting kit, please follow the steps below.

- Step 1: Locate the VESA mount screw holes on the rear of the POC-W22A-H81 (Figure 3-35). This is where the bracket will be attached.
- Step 2: Align the bracket with the screw holes.
- **Step 3:** To secure the bracket to the POC-W22A-H81 insert the retention screws into the screw holes and tighten them.





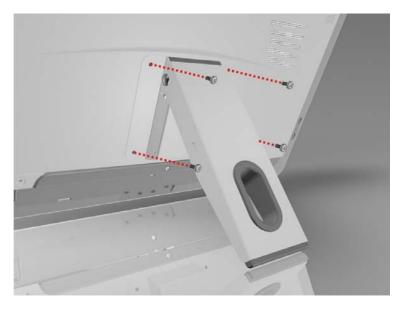


Figure 3-37: Stand Mounting with EZ Stand (MEDP-EZS-R10)



If the EZ stand is mounted, the handle (MEDP-HD-R10 or MEDP-HD-BR-R10) can not be installed.

3.15 Powering On the System



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



The FSP PMP120-13-2 power adapter came with the POC-W22A-H81 is a forming part of the medical device.

To power on the system, follow the steps below:

- Step 1: Connect the power cord to the power adapter. Connect the other end of the power cord to a power source.
- Step 2: Connect the power adapter to the power connector of the POC-W22A-H81.
- **Step 3:** Locate the power button on the I/O panel.
- **Step 4:** Short press the power button to turn on the POC-W22A-H81.

The user can also long-press the touch buttons **I** on the front panel for three seconds to power on the system (please refer to **Table 1-2**).



Figure 3-38: Powering On the System

3.16 Reset the System

The reset button enables user to reboot the system when the system is turned on. The reset button location is shown in **Figure 3-39**. Press the reset button to reboot the system.



Figure 3-39: Reset Button Location







Driver Installation

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4.1 Available Software Drivers



The contents of the driver folder may vary throughout the life cycle of the product and is subject to change without prior notice. Visit the IEI website or contact technical support for the latest updates.

All the drivers for the POC-W22A-H81 are on the utility CD that came with the system. To install the drivers, please follow the steps below.

Step 1: Insert the CD into a CD drive connected to the system.

Step 2: The driver main menu with a list of available drivers appears (Figure 4-1).



Figure 4-1: Available Drivers

Step 3: Install all of the necessary drivers in this menu.

4.2 Intel® Chipset Driver

To install the chipset driver, please follow the steps below.

- Step 1: Select Chipset from the list of the driver CD.
- Step 2: Double click the setup file in the folder. The Intel® Chipset Device Software

install wizard appears



Figure 4-2: Intel® Chipset Device Software Install Wizard

Step 3: Follow the step-by-step instruction of the installation wizard to install the driver.

4.3 Intel® Graphics Driver

To install the graphics driver, please follow the steps below.

- **Step 1:** Select **VGA** from the list of the driver CD. Locate the driver setup file for the corresponding operating system.
- Step 2: Double click the setup file in the folder. The Intel® Graphics Driver InstallShield Wizard appears (Figure 4-3).

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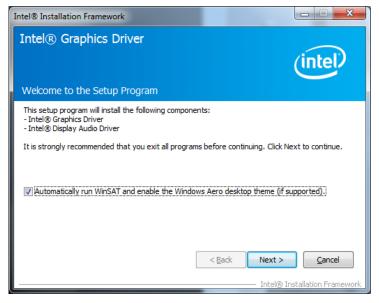


Figure 4-3: Intel® Graphics Driver InstallShield Wizard

Step 3: Follow the step-by-step instruction of the installation wizard to install the graphics driver.

4.4 Audio Driver

To install the driver for the speaker and the microphone, please follow the steps below.

- **Step 1:** Select **Audio** from the list of the driver CD.
- Step 2: Double click the setup file in the folder. The InstallShield Wizard screen appears (Figure 4-4).





Figure 4-4: Realtek HD Audio Driver InstallShield Wizard

Step 3: Follow the step-by-step instruction of the installation wizard to install the HD Audio driver.

4.5 LAN Driver

To install the LAN driver, please follow the steps below.

- **Step 1:** Select **LAN** from the list of the driver CD. Locate the driver setup file for the corresponding operating system.
 - PROWin7_Win8.1_32_18.7.exe: Windows 7 or 8.1 (32-bit)
 - PROWin7_Win8.1_64_18.7.exe: Windows 7 or 8.1 (64-bit)
- Step 2: Double click the setup file in the folder. The Install Wizard screen appears (Figure 4-4).





HINTER Intel(R) Network Connections Install Wizard	×
Welcome to the install wizard for Intel(R) Network Connections	(intel)
Installs drivers, Intel(R) Network Connections, and Advanced Networking Services.	
WARNING: This program is protected by copyright law and international treaties.	
< Back Next >	Cancel

Figure 4-5: LAN Driver Install Wizard

Step 3: Follow the step-by-step instruction of the installation wizard to install the Intel® Network Connection driver.

4.6 USB 3.0 Driver

To install the USB 3.0 driver, please follow the steps below.

- Step 1: Select USB 3.0 from the list of the driver CD. Locate the driver setup file.
- Step 2: Double click the setup file. The Intel® Installation Framework window appears (Figure 4-3).

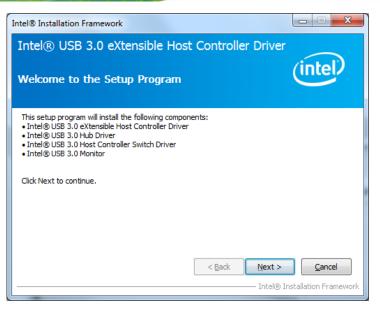


Figure 4-6: USB 3.0 Driver Install Wizard

Step 3: Follow the step-by-step instruction of the installation wizard to install the USB 3.0 driver.

4.7 Intel® Management Engine

To install the Intel® Management Engine Components, please follow the steps below.

- Step 1: Select **MEI** from the list of the driver CD. Locate the driver setup file.
- Step 2: Double click the setup file. The Intel® Installation Framework window appears (Figure 4-3).

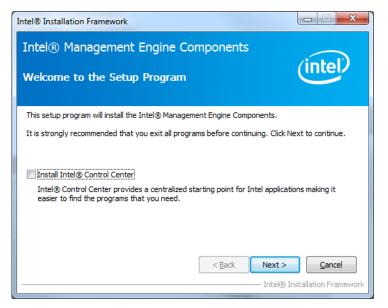


Figure 4-7: Intel® ME Components Install Wizard

Step 3: Follow the step-by-step instruction of the installation wizard to install the Intel® Management Engine Components.

4.8 Keypad AP

The Keypad AP is an OSD control tool developed by IEI. To install the Keypad AP, please follow the steps below.

- **Step 1:** Select **Keypad AP** from the list of the driver CD.
- Step 2: Double click the KeypadAP H779 v1.0_1.exe file. The following window appears (Figure 4-3).

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Figure 4-8: Keypad Setup Wizard

- **Step 3:** Follow the step-by-step instruction of the installation wizard to install the Keypad AP.
- Step 4: After the installation, the Keypad AP can be accessed by pressing the brightness up/down buttons or the volume up/down buttons on the bottom frame of the monitor. It allows users to control screen brightness, audio volume and auto-dimming function.



Figure 4-9: Keypad AP

4.9 Wireless LAN Driver

To install the wireless LAN driver, please follow the steps below.

Step 1: Select WiFi from the list of the driver CD. Locate the setup file in this folder:

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AZ_RTL8821AE_Win7_Win8.X_2012.9.0212.2014.

Step 2: Double click the setup file in the folder. The InstallShield Wizard screen appears (Figure 4-10).

REALTEK PCIE Wireless LAN Drive	r X		
	REALTEK PCIE Wireless LAN Driver		
	The InstallShield Wizard will install REALTEK PCIE Wireless LAN Driver on your computer. To continue, click Next.		
< Back Next > Cancel			

Figure 4-10: Wireless LAN InstallShield Wizard

Step 3: Follow the step-by-step instruction of the installation wizard to install the Wireless LAN driver.

4.10 Bluetooth Driver

To install the Bluetooth driver, please follow the steps below.

Step 1: Select WiFi from the list of the driver CD. Locate the setup file in this folder:

BT_805.806.806.0221.2014.

Step 2: Double click the setup file in the folder. The InstallShield Wizard screen appears.

REALTEK Bluetooth Driver	
	REALTEK Bluetooth Driver
	The InstallShield Wizard will install REALTEK Bluetooth Driver on your computer. To continue, click Next.
	< Back Next > Cancel

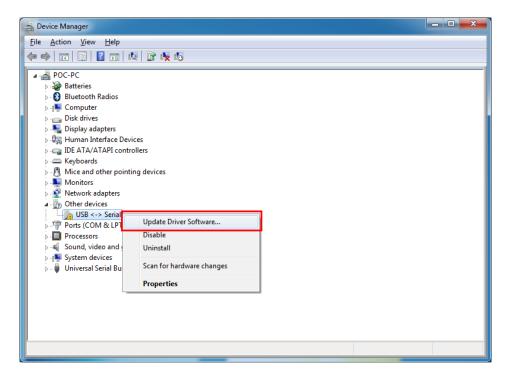
Figure 4-11: Bluetooth Driver InstallShield Wizard

Step 3: Follow the step-by-step instruction of the installation wizard to install the Bluetooth driver.

4.11 RFID Driver (Optional)

To install the RFID driver, please follow the steps below.

Step 1:Open the Device Manager window. Long press or right click USB <-> Serial.Select Update Driver Software from the pop-up window.



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Figure 4-12: Device Manager - Update Driver Software

Step 2: The Update Driver Software window appears. Select Browse my computer

for driver software.

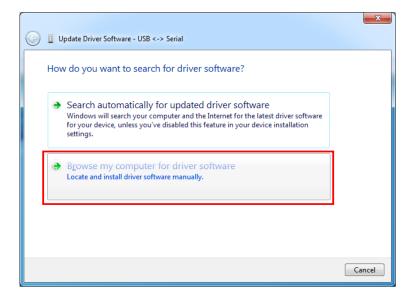


Figure 4-13: Update Driver Software Window

Step 3: The following window appears. Press/Click the Browse button to specify the RFID driver directory (\Docs\10.Other\ POCP-MF-RFID-R10\RFID\D490). Then, press/click the Next button.

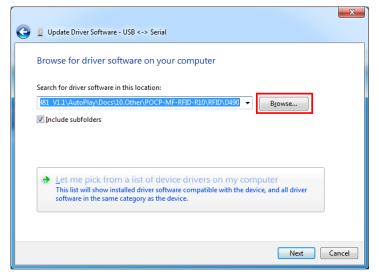


Figure 4-14: Browse for Driver Software Window

- **Step 4:** The system starts installing the RFID driver.
- Step 5: After the driver installation process is complete, a confirmation screen appears.

Click **Close** to exit the program.

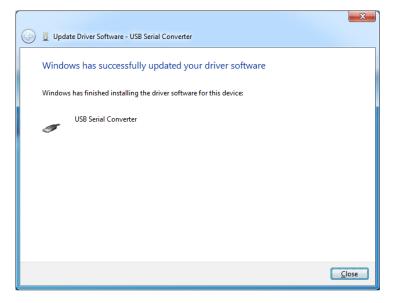


Figure 4-15: Driver Installation Complete Window

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Step 6: Repeat Step 1 ~ Step 5 to install the RFID driver again.

Step 7: The Device Manager Window now shows the installed RFID devices.

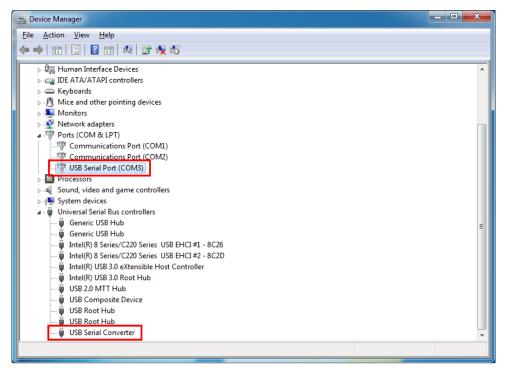


Figure 4-16: Device Manager Window - RFID Devices

4.12 3-in-1 Combo Reader Driver (Optional)

The drivers for the optional 3-in-1 combo reader are all located in the following folder of the driver CD: **\Docs\10.Other\POCP-W22A-CR-R10**. Please follow the instructions below to install the drivers.

4.12.1 SCR Driver

Follow the steps below to install the SCR driver.

Step 1:Open the Device Manager window. Long press or right click Singular VCOMCard Reader. Select Update Driver Software from the pop-up window.



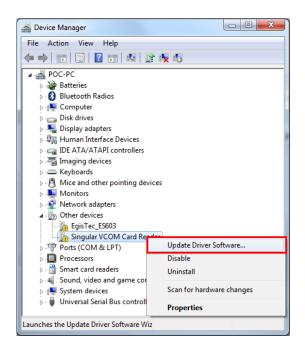


Figure 4-17: Device Manager - Update Driver Software

Step 2: The Update Driver Software window appears. Select Browse my computer

for driver software.

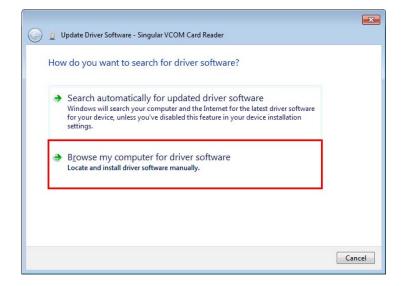


Figure 4-18: Update Driver Software Window

Step 3: The following window appears. Press/Click the Browse button to specify the SCR driver directory (\Docs\10.Other\POCP-W22A-CR-R10\SCR). Then, press/click the Next button.

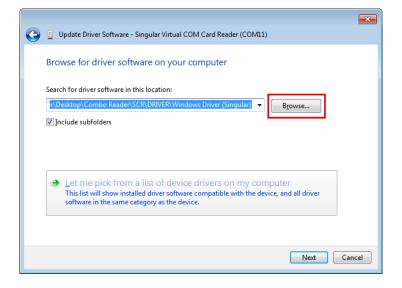


Figure 4-19: Browse for Driver Software Window

Step 4: The following window (Figure 4-20) appears as the driver is installed.

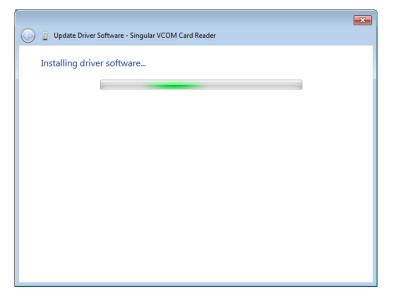


Figure 4-20: Installing Driver Window



Step 5: After the driver installation process is complete, a confirmation screen appears.

Click **Close** to exit the program.

	×
😡 📱 Update Driver Software - Singular Virtual COM Card Reader (COM12)	
Windows has successfully updated your driver software	
Windows has finished installing the driver software for this device:	
Singular Virtual COM Card Reader	
	<u>C</u> lose

Figure 4-21: Driver Installation Complete Window

Step 6: The Device Manager Window now shows the installed SCR device.

🚔 Device Manager	
<u>File Action View H</u> elp	
A 📲 POC-PC	
Batteries	
Bluetooth Radios	
🔈 🚛 Computer	
Disk drives	
Display adapters	
👂 🦛 Human Interface Devices	
DE ATA/ATAPI controllers	
Imaging devices	
Keyboards	
Mice and other pointing devices	
Monitors	
Network adapters	
▲	
Images rec_esous Images rec_	
Communications Port (COM1)	
Communications Port (COM2)	
Singular Virtual COM Card Reader (COM4)	
Processors	
Smart card readers	
Sound, video and game controllers	
System devices	
Universal Serial Bus controllers	

Figure 4-22: Device Manager Window - SCR Device

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4.12.2 MSR Driver

Follow the steps below to install the MSR driver.

Step 1: Open the Device Manager window. Long press or right click Singular VCOM

Card Reader. Select Update Driver Software from the pop-up window.

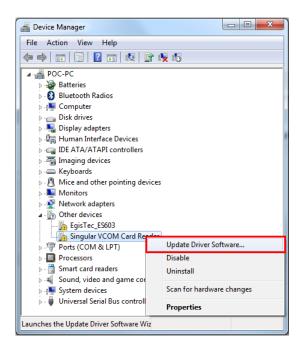


Figure 4-23: Device Manager - Update Driver Software

Step 2: The Update Driver Software window appears. Select Browse my computer

for driver software.

•	Search automatically for updated driver software
	Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.
÷	Browse my computer for driver software Locate and install driver software manually.
	Eocace and instantance software manaday.

Figure 4-24: Update Driver Software Window

Step 3: The following window appears. Press/Click the Browse button to specify the MSR driver directory (\Docs\10.Other\POCP-W22A-CR-R10\MSR). Then, press/click the Next button.

	×
🚱 🚊 Update Driver Software - COM10	
Browse for driver software on your computer	
Search for driver software in this location:	
trator\Desktop\Combo Reader\DDMSR\Windows Driver (Singular) V Browse	
✓ Include subfolders	
Let me pick from a list of device drivers on my computer	
This list will show installed driver software compatible with the device, and all driver software in the same category as the device.	
Next	ncel

Figure 4-25: Browse for Driver Software Window

Step 4: The following window (Figure 4-26) appears as the driver is installed.



	×
😡 📱 Update Driver Software - Singular VCOM Card Reader	
Installing driver software	

Figure 4-26: Installing Driver Window

Step 5: After the driver installation process is complete, a confirmation screen appears.

Click **Close** to exit the program.

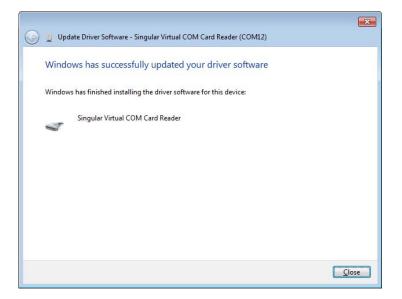


Figure 4-27: Driver Installation Complete Window

Step 6: The Device Manager Window now shows the installed MSR device.



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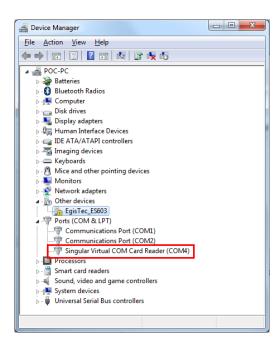
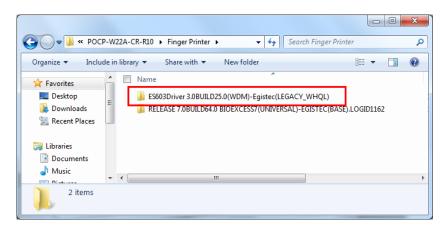


Figure 4-28: Device Manager Window - MSR Device

4.12.3 Fingerprint Reader Driver

Follow the steps below to install the fingerprint reader driver.

- **Step 1:** Select **Other** from the list of the driver CD.
- Step 2: The fingerprint reader driver is located in the following folder (Figure 4-29):
 \Docs\10.Other\POCP-W22A-CR-R10\Finger Printer. Double click the setup.exe file in this folder to install the driver.





Step 3: The Egis ES603 WDM Driver welcome window appears.





Step 4: Follow the step-by-step instruction of the installation wizard to install the fingerprint reader driver.

4.13 Barcode Reader Driver (Optional)

To install the barcode reader driver, please follow the steps below.

Step 1: Select Other from the list of the driver CD. Double click the Install_x86.bat file

(or Install_x64.bat for 64-bit OS) in the POCP-W22A-HD-BR-R10 folder shown

in Figure 4-31 to install the barcode reader driver.

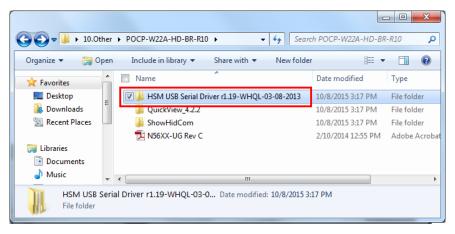


Figure 4-31: Barcode Reader Driver Folder

Step 2: The following window shows and starts installing the barcode reader driver.

When the installation is complete, the window will close automatically.

C:\Window:	s\system32\cmd.exe	- 0 X
Installing	a signed driver package for USBCDCACM\VID_0C2E&PID_09CA	*
	HWID_USBCDCACM\UID_0C2E&PID_09D4&MI_00 a signed driver package for USBCDCACM\UID_0C2E&PID_09D4&MI_1	90
	HWID_USBCDCACM\UID_0C2E&PID_0A6A&MI_00 a signed driver package for USBCDCACM\UID_0C2E&PID_0A6A&MI_1	90
	HWID_USBCDCACM\VID_0C2E&PID_0A74 a signed driver package for USBCDCACM\VID_0C2E&PID_0A74	
	HWID_USBCDCACM\VID_0C2E&PID_0A4A&MI_00 a signed driver package for USBCDCACM\VID_0C2E&PID_0A4A&MI_1	00
	HWID_USBCDCACM\VID_0C2E&PID_0A54 a signed driver package for USBCDCACM\VID_0C2E&PID_0A54	
	HWID_USBCDCACM\VID_0C2E&PID_0BF4 a signed driver package for USBCDCACM\VID_0C2E&PID_0BF4	
Installing	HWID_USBCDCACM_VID_0C2E&PID_0BEA&MI_00 a signed driver_package_for_USBCDCACM_VID_0C2E&PID_0BEA&MI_(: completed successfully	00
	ity v10.11. Build Jan 17 2010 18:41:51	*

Figure 4-32: Barcode Reader Driver Installation

Step 3: The Device Manager Window now shows the installed barcode reader device.



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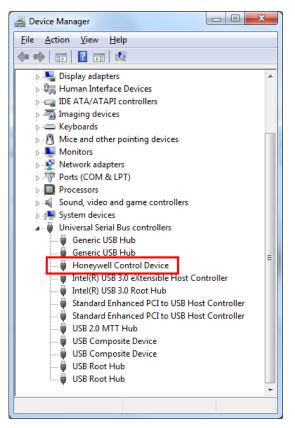
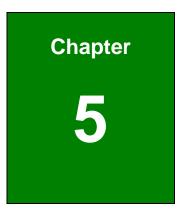


Figure 4-33: Device Manager Window - Barcode Reader Device





BIOS Setup

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5.1 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.



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

5.1.1 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. Press the **DEL** key as soon as the system is turned on or
- 2. Press the **DEL** key when the "**Press DEL to enter SETUP**" message appears on the screen.

If the message disappears before the **DEL** key is pressed, restart the computer and try again.

5.1.2 Using Setup

Use the arrow keys to highlight items, press **ENTER** to select, use the PageUp and PageDown keys to change entries, press **F1** for help and press **Esc** to quit. Navigation keys are shown in the following table.

Кеу	Function
Up arrow	Move to the item above
Down arrow	Move to the item below
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
F1 key	General help, only for Status Page Setup Menu and Option
	Page Setup Menu
F2 key	Load previous values.
F3 key	Load optimized defaults
F4 key	Save changes and Exit BIOS
Esc key	Main Menu – Quit and do not save changes into CMOS
	Status Page Setup Menu and Option Page Setup Menu
	Exit current page and return to Main Menu

Table 5-1: BIOS Navigation Keys

5.1.3 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.

5.1.4 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
- Server Mgmt Changes BMC network configuration.

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

5.2 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.

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Aptio Setup Utility - Main Advanced Chipset	Copyright (C) 2015 America Boot Security Save	
BIOS Information		Set the Date. Use Tab to
BIOS Vendor	American Megatrends	switch between Data
Core Version	4.6.5.4	elements.
Compliancy	UEFI 2.3.1; PI 1.2	
Project Version	E438AR32.ROM	
Build Date and Time	08/07/2015 11:25:07	
iWDD Vender	iEi	
iWDD Version	E438ER11.bin	
IPMI Module	N/A	
Processor Information		←→: Select Screen
Name	Haswell	↑ ↓: Select Item
Brand String	Intel(R)Core(TM) i5-457	EnterSelect
Frequency	3200 MHz	+/-: Change Opt.
Processor ID	306c3	F1: General Help
Stepping	CO	F2: Previous Values
Number of Processors	2Core(S)/4Thread(s)	F3: Optimized Defaults
Microcode Revision	lc	F4: Save & Exit
GT Info	GT2 (700 MHz)	ESC: Exit
IGF VBIOS Version	2179	
Memory RC Version	1.9.0.0	
Total Memory	4096 MB (DDR3)	
Memory Frequency	1600 Mhz	
PCH Information		
Name	LynxPoint	
PCH SKU	Н81	
Stepping	05/C2	
LAN PHY Revision	A3	
ME FW Version	9.1.10.1005	
ME Firmware SKU	1.5MB	
SPI Clock Frequency		
DOFR Support	Unsupported	
Read Status Clock Frequency		
Write Status Clock Frequency		
Fast Read Status Clock Frequ	ency 50 MHz	
System Date	[Tue 09/22/2015]	
System Time	[16:49:37]	
Access Level	Administrator	
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BIOS Menu 1: Main

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→ 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.

5.3 Advanced

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



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.

Apt	io Setup U	tility - Co	pyright	(C) 2015 Am	erica	n Megat	rends, Inc	•
Main	Advanced	Chipset	Boot	Security	Save	& Exit	Server	Mgmt
<pre>> ACPI Se > RTC Wak > Trusted > CPU Cor > SATA Co > USB Cor > F81866 > iWDD H/</pre>	ettings ce Settings l Computing afiguration onfiguration figuration Super IO Co M Monitor Port Conso	n onfiguratio	on	Security	Jave	System ←→: s ↑↓: s EnterS +/-: 0 F1: 0 F2: F F3: 0	ACPI Para Select Scre Select Iter	meters.
V	orgion 2 17	1246 Con	vright (2) 2015 Ame	rigan	ESC: E		
V		·1210. COP	yrrgnic (C	, zoro Alle	Lican	megati		

BIOS Menu 2: Advanced

5.3.1 ACPI Settings

The **ACPI Settings** menu (**BIOS Menu 3**) configures the Advanced Configuration and Power Interface (ACPI) options.

Aptio Setup Utility Advanced	- Copyright (C) 2015 Americ	an Megatrends, Inc.
ACPI Settings ACPI Sleep State	[S1 only (CPU Stop C1]	Select ACPI sleep state the system will enter when the SUSPEND button is pressed.
		<pre>←→: Select Screen ↑↓: Select Item EnterSelect +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>
Version 2.17.1246.	Copyright (C) 2015 American	n Megatrends, Inc.

BIOS Menu 3: ACPI Settings

→ ACPI Sleep State [S1 only (CPU Stop Clock)]

Use the **ACPI Sleep State** option to specify the sleep state the system enters when it is not being used.

→	S1 only (CPU Stop DEF	AULT	The system enters S1 (POS) sleep state. The
	Clock)		system appears off. The CPU is stopped; RAM is
			refreshed; the system is running in a low power
			mode.
→	S3 only (Suspend		The caches are flushed and the CPU is powered
	to RAM)		off. Power to the RAM is maintained. The
			computer returns slower to a working state, but

more power is saved.

5.3.2 RTC Wake Settings

The RTC Wake Settings menu (BIOS Menu 4) configures RTC wake event.

Aptio Setup Utility -	Copyright (C) 2015 America	n Megatrends, Inc.
Advanced			
Wake system with Fixed Time	[Disable	ed]	Enable or disable System wake on alarm event. When enabled, System will wake on the dat::hr::min::sec specified
			 ←→: Select Screen ↑↓: Select Item EnterSelect F1 General Help F2 Previous Values F3 Optimized Defaults F4 Save ESC Exit
Version 2.17.1246. C	opyright (C)	2015 American	Megatrends, Inc.

BIOS Menu 4: 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

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.

5.3.3 Trusted Computing

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

Aptio Setup Utility - Advanced	Copyright (C)	2015 America	n Megatrends, Inc.
Configuration Security Device Support	[Enable]		Enables or Disables BIOS support for security device. O.S. will not show Security Device.
Current Status Information NO Security Device Found			TCG EFI protocol and INT1A interface will not be available.
			<pre>←→: Select Screen ↑↓: Select Item EnterSelect</pre>
			+ - Change Opt. F1 General Help F2 Previous Values
			F3 Optimized Defaults F4 Save ESC Exit
Version 2.17.1246. (Copyright (C) 2	015 American	Megatrends, Inc.

BIOS Menu 5: Trusted Computing

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→ 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.

5.3.4 CPU Configuration

Use the **CPU Configuration** (**BIOS Menu 6**) to view detailed CPU specifications and configure the CPU.

Aptio Setup Utility - Copy Advanced	right (C) 2015 America	n Megatrends, Inc.
CPU Configuration		Enable for Windows XP and Linux (OS optimized for
<pre>Intel(R) Core(TM) i5-4570TE CPU CPU Signature Microcode Patch Max CPU Speed Min CPU Speed CPU Speed Processor Cores Intel HT Technology Intel VT-x Technology Intel SMX Technology 64-bit EIST Technology</pre>	<pre>@ 2.70GHz 306c3 1c 2700 MHz 800 MHz 3200 MHz 2 Supported Supported Supported Supported Supported Supported Supported</pre>	Hyper-Threading Technology) and Disabled for other OS (OS not optimized for Hyper-Threading Technology). When Disabled only one thread per enabled core is enabled.
L1 Data Cache L1 Code Cache L2 Cache L3 Cache Hyper-threading Active Processor cores Intel Virtualization Technology EIST	32 kB x 2 32 kB x 2 256 kB x 2 4096 kB [Enabled] [All] [Disabled] [Enabled]	<pre>←→: Select Screen ↑↓: Select Item EnterSelect +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit</pre>

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BIOS Menu 6: CPU Configuration

The CPU Configuration menu lists the following CPU details:

- Processor Type: Lists the brand name of the CPU being used
- CPU Signature: Lists the CPU signature value.
- Microcode Patch: Lists the microcode patch being used.

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- Max CPU Speed: Lists the maximum CPU processing speed.
- Min CPU Speed: Lists the minimum CPU processing speed.
- CPU Speed: Lists the CPU processing speed.
- Processor Cores: Lists the number of the processor core
- Intel HT Technology: Indicates if Intel HT Technology is supported by the CPU.
- Intel VT-x Technology: Indicates if Intel VT-x Technology is supported by the CPU.
- Intel SMX Technology: Indicates if Intel SMX Technology is supported by the CPU.
- 64-bit: Indicates if 64-bit OS is supported by the CPU.
- EIST Technology: Indicates if EIST Technology is supported by the CPU.
- L1 Data Cache: Lists the amount of data storage space on the L1 cache.
- L1 Code Cache: Lists the amount of code storage space on the L1 cache.
- L2 Cache: Lists the amount of storage space on the L2 cache.
- L3 Cache: Lists the amount of storage space on the L3 cache.

→ 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

→ Active Processor Cores [All]

Use the **Active Processor Cores** BIOS option to enable numbers of cores in the processor package.

→	All	DEFAULT	Enable all cores in the processor package.
→	1		Enable one core in the processor package.

→ Intel Virtualization Technology [Disabled]

Use the **Intel 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	DEFAULT	Disables Intel Virtualization Technology.
→	Enabled		Enables Intel Virtualization Technology.

→ EIST [Enabled]

Use the EIST option to enable or disable Enhanced Intel SpeedStep® Technology (EIST).

→	Disabled		Disables Enhanced Intel SpeedStep®
			Technology.
→	Enabled	DEFAULT	Enables Enhanced Intel SpeedStep®
			Technology.

5.3.5 SATA Configuration

Use the **SATA Configuration** menu (**BIOS Menu 7**) to change and/or set the configuration of the SATA devices installed in the system.

Aptio Setup Utility - Advanced	Copyright (C) 2015 America	n Megatrends, Inc.
SATA Controller(s) SATA Mode Selection	[Enabled] [IDE]	Enable/Disable SATA Device.
SATA1 M_PCIE_1/mSATA	ST500LT012-1DG (500.1GB) Empty	<pre></pre>
Version 2.17.1246.	Copyright (C) 2015 American	Megatrends, Inc.

BIOS Menu 7: SATA Configuration

→

→

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→ SATA Controller(s) [Enabled]

Use the SATA Controller(s) option to configure the SATA controller(s).

→	Enabled	DEFAULT	Enable the on-board SATA controller(s).
→	Disabled		Disable the on-board SATA controller(s).
SAT	A Mode Select	ion [IDE]	
Use th	he SATA Mode	Selection o	ption to determine how SATA devices operate.
→	IDE	DEFAULT	Configures SATA devices as normal IDE device.

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

5.3.6 USB Configuration

Use the **USB Configuration** menu (**BIOS Menu 8**) to read USB configuration information and configure the USB settings.

Aptio Setup Utility - Copyright (C) 2015 America	n Megatrends, Inc.
USB Configuration	Enables Legacy USB support. AUTO option
USB Devices: 1 Keyboard, 1 Mouse, 1 Point, 3 Hubs	disables legacy support if no USB devices are connected. DISABLE
Legacy USB Support [Enabled]	option will keep USB devices available only for EFI applications.
	←→: Select Screen
	↑↓: Select Item EnterSelect
	+/-: Change Opt. F1: General Help
	F2: Previous Values F3: Optimized Defaults F4: Save & Exit
Version 2.17.1246. Copyright (C) 2015 American	ESC: Exit Megatrends, Inc.

BIOS Menu 8: USB Configuration

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→ USB Devices

The USB Devices Enabled field lists the USB devices that are enabled on the system

→ Legacy USB Support [Enabled]

Use the **Legacy USB Support** BIOS option to enable USB mouse and USB keyboard support. Normally if this option is not enabled, any attached USB mouse or USB keyboard does not become available until a USB compatible operating system is fully booted with all USB drivers loaded. When this option is enabled, any attached USB mouse or USB keyboard can control the system even when there is no USB driver loaded onto the system.

→	Enabled	DEFAULT	Legacy USB support enabled
→	Disabled		Legacy USB support disabled
→	Auto		Legacy USB support disabled if no USB devices are
			connected

5.3.7 F81866 Super IO Configuration

Use the **F81866 Super IO Configuration** menu (**BIOS Menu 9**) to set or change the configurations for the serial ports.

Aptio Setup Utility - Copyright (C) 2015 America	n Megatrends, Inc.
F81866 Super IO Configuration Super IO Chip F81866	Set Parameters of Serial Port 1 (COMA)
<pre>> Serial Port 1 Configuration > Serial Port 2 Configuration</pre>	←→: Select Screen ↑↓: Select Item
	EnterSelect +/-: Change Opt. F1: General Help
	F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.17.1246. Copyright (C) 2015 American	

BIOS Menu 9: F81866 Super IO Configuration

5.3.7.1 Serial Port n Configuration

Use the Serial Port n Configuration menu (BIOS Menu 10) to configure the serial port n.

Aptio Setup Utility - Copy Advanced	right (C) 2015 America	n Megatrends, Inc.
Serial Port 1 Configuration Serial Port Device Settings	[Enabled] IO=3F8h; IRQ=4	Enable or Disable Serial Port (COM)
Change Settings	[Auto]	<pre>←→: Select Screen ↑↓: Select Item EnterSelect +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit</pre>
Version 2.17.1246. Copyr:	ight (C) 2015 American	ESC: Exit Megatrends, Inc.

BIOS Menu 10: Serial Port n Configuration Menu

5.3.7.1.1 Serial Port 1 Configuration

→ 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]

Use the **Change Settings** option to change the serial port IO port address and interrupt address.

→	Auto	DEFAULT	The serial port IO port address and interrupt
			address are automatically detected.
→	IO=3F8h; IRQ=4		Serial Port I/O port address is 3F8h and the
			interrupt address is IRQ4

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→	IO=3F8h;	Serial Port I/O port address is 3F8h and the
	IRQ=3, 4	interrupt address is IRQ3, 4
→	IO=2C0h; IRQ=3, 4	Serial Port I/O port address is 2C0h and the interrupt address is IRQ3, 4
→	IO=2C8h; IRQ=3, 4	Serial Port I/O port address is 2C8h and the interrupt address is IRQ3, 4

Integration Corp.

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→ Device Mode [RS232]

Use the **Device Mode** option to set the Serial Port 1 signaling mode.

→	RS232	DEFAULT	Configure Serial Port 1 as RS-232
→	RS422/485		Configure Serial Port 1 as RS-422/485

5.3.7.1.2 Serial Port 2 Configuration

→ 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]

Use the **Change Settings** option to change the serial port IO port address and interrupt address.

→	Auto	DEFAULT	The serial port IO port address and interrupt address are automatically detected.
→	IO=2F8h; IRQ=3		Serial Port I/O port address is 2F8h and the interrupt address is IRQ3
→	IO=3F8h; IRQ=3, 4		Serial Port I/O port address is 3F8h and the interrupt address is IRQ3, 4

→	IO=2F8h;	Serial Port I/O port address is 2F8h and the
	IRQ=3, 4	interrupt address is IRQ3, 4
→	IO=2C0h; IRQ=3, 4	Serial Port I/O port address is 2C0h and the interrupt address is IRQ3, 4
→	IO=2C8h; IRQ=3, 4	Serial Port I/O port address is 2C8h and the interrupt address is IRQ3, 4

5.3.8 iWDD H/W Monitor

The **iWDD H/W Monitor** menu (**BIOS Menu 11**) shows the operating temperatures and voltages.

Aptio Setup Utility	- Copyright (C) 2015 Amer	ican Megatrends, Inc.
PC Health Status >Smart Fan Mode Configurat	ion	Smart Fan Mode Select
CPU temperature System temperature CPU_FAN1 Speed SYS_FAN1 Speed CPU_CORE +5V +12V DDR +5VSB +3.3V	: +62 °C : +48 °C :1108 RPM : N/A : +1.705 V : +4.953 V : +11.866 V : +1.496 V : +6.120 V : +3.230 V	<pre>←→: Select Screen ↑↓: Select Item EnterSelect +/-: Change Opt. F1: General Help F2: Previous Values</pre>
+3.3VSB	: +3.200 V : +3.207 V Copyright (C) 2015 Americ	F3: Optimized Defaults F4: Save & Exit ESC: Exit can Megatrends, Inc.



→ Hardware Health Status

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

- Temperature:
 - O CPU Temperature
 - O System Temperature

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- Fan Speed
 - O CPU fan
 - O System fan
 - Voltages:
 - O CPU_CORE
 - 0 +5V
 - 0 +12V
 - O +DDR
 - O +5VSB
 - 0 +3.3V
 - O +3.3VSB

5.3.8.1 Smart Fan Mode Configuration

Use the Smart Fan Mode Configuration submenu (BIOS Menu 12) to configure fan speed settings.

Smart Fan Mode ConfigurationSmart Fan Mode SelectCPU_FAN1 Smart Fan Control[Auto Mode]Fan start temperature50Fan off temperature40Fan start PWM30Fan slope PWM1SYS_FAN1 Smart Fan Control[Auto Mode]Fan start temperature50Fan off temperature50Fan start temperature50Fan start temperature50Fan off temperature50Fan start temperature50Fan start temperature40Fan start PWM30Fan start PWM30Fan slope PWM1Fan slope PWM1Fan slope PWM1	Aptio Setup Utility - Co Advanced	opyright (C) 2015	America	n Megatrends, Inc.
Fan start temperature50Fan off temperature40Fan start PWM30Fan slope PWM1Fan start Fan Control[Auto Mode]Fan start temperature50Fan off temperature50Fan off temperature50Fan start PWM30Fan start temperature50Fan start temperature50Fan start temperature40Fan start PWM30Fan start PWM1Fan slope PWM1	Smart Fan Mode Configuration			Smart Fan Mode Select
	Fan start temperature Fan off temperature Fan start PWM Fan slope PWM SYS_FAN1 Smart Fan Control Fan start temperature Fan off temperature Fan start PWM	50 40 30 1 [Auto Mode] 50 40		<pre>↑↓: Select Item EnterSelect +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit</pre>

BIOS Menu 12: Smart Fan Mode Configuration

→ CPU_FAN1 Smart Fan Control/SYS_FAN1 Smart Fan Control [Auto Mode]

Use the CPU_FAN1 Smart Fan Control/SYS_FAN1 Smart Fan Control option to configure the CPU/System Smart Fan.

- → Manual Mode The fan spins at the speed set in Manual Mode settings.
 → Auto Mode DEFAULT The fan adjusts its speed using Auto Mode
 - **Iode DEFAULT** The fan adjusts its speed using Auto Mode settings.

→ Fan start/off temperature

Use the + or – key to change the **Fan start/off temperature** value. Enter a decimal number between 1 and 100.

→ Fan start PWM

Use the + or – key to change the **Fan start PWM** value. Enter a decimal number between 1 and 100.

→ Fan slope PWM

Use the + or – key to change the **Fan slope PWM** value. Enter a decimal number between 1 and 8.

5.3.9 Serial Port Console Redirection

The **Serial Port Console Redirection** menu (**BIOS Menu 13**) 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.

Aptio Setup Utility - Copy Advanced	right (C) 2015 America	n Megatrends, Inc.
COM1 Console Redirection > Console Redirection Settings	[Disabled]	Console Redirection Enable or Disable.
COM2 Console Redirection > Console Redirection Settings	[Disabled]	<pre>←→: Select Screen ↑↓: Select Item</pre>
COM3 (BMC) (Disabled) Console Redirection	Port Is Disabled	EnterSelect +/-: Change Opt. F1: General Help F2: Previous Values
Version 2.17.1246. Copyr	ight (C) 2015 American	F3: Optimized Defaults F4: Save & Exit ESC: Exit

BIOS Menu 13: 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

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5.3.10 IEI Feature

Use the IEI Feature menu (BIOS Menu 14) to configure One Key Recovery function.

Aptio Setup Utility Advanced	- Copyright (C) 2015 Americ	an Megatrends, Inc.
iEi Feature		Auto Recovery Function Reboot and recover
Auto Recovery Function	[Disabled]	system automatically within 10 min, when OS crashes. Please install Auto Recovery API service before enabling this funciton.
		<pre>←→: Select Screen ↑↓: Select Item EnterSelect + - Change Opt. F1 General Help F2 Previous Values F3 Optimized Defaults F4 Save ESC Exit</pre>
Version 2.17.1246.	Copyright (C) 2015 America	

BIOS Menu 14: IEI Feature

→ Auto Recovery Function [Disabled]

Use the **Auto Recovery Function** BIOS option to enable or disable the auto recovery function of the IEI One Key Recovery.

→	Disabled	DEFAULT	Auto recovery function disabled
→	Enabled		Auto recovery function enabled



5.4 Chipset

Use the Chipset menu (BIOS Menu 15) to configure the system chipset.

Aptio Setup Utility - Copyright (C) 2015 Ameri Main Advanced <mark>Chipset</mark> Boot Security Sa	can Megatrends, Inc. ve & Exit Server Mgmt
<pre>> PCH-IO Configuration > System Agent (SA) Configuration</pre>	PCH Parameters
	<pre></pre>
Version 2.17.1246. Copyright (C) 2015 America	an Megatrends, Inc.

BIOS Menu 15: Chipset

5.4.1 PCH-IO Configuration

Use the PCH-IO Configuration menu (BIOS Menu 16) to configure the PCH-IO chipset.

Aptio Setup Utility - Co Chipset	opyright (C) 2015 Ameri	can Megatrends, Inc.
Auto Power Button Status Restore AC Power Loss	[Disable (ATX)] [Last State]	Select AC power state when power is re-applied after a power failure.
> PCI Express Configuration > PCH Azalia Configuration		 ←→: Select Screen ↑↓: Select Item EnterSelect + - Change Opt. F1 General Help F2 Previous Values F3 Optimized Defaults F4 Save & Exit ESC Exit
Version 2.17.1246. Cop	oyright (C) 2015 America	an Megatrends, Inc.

BIOS Menu 16: PCH-IO Configuration

→ Restore AC Power Loss [Last State]

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

→	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.

5.4.1.1 PCI Express Configuration

Use the **PCI Express Configuration** submenu (**BIOS Menu 17**) to configure the PCI Express slots.

Aptio Setup Utility - Copyright (C) 2015 America Chipset	n Megatrends, Inc.
PCI Express Configuration	M_PCIE_1 Slot Settings.
> M_PCIE_1 Slot > M_PCIE_2 Slot	
	<pre>←→: Select Screen ↑↓: Select Item EnterSelect</pre>
	+ - Change Opt. F1 General Help
	F2 Previous Values F3 Optimized Defaults
	F4 Save & Exit ESC Exit
Version 2.17.1246. Copyright (C) 2015 American	Megatrends, Inc.

BIOS Menu 17: PCI Express Configuration

The M_PCIE_1 Slot and M_PCIE_2 Slot submenus both contain the following options:

➔ PCle Speed [Auto]

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

- Auto
 DEFAULT
- Gen 2

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Gen 1

→ Detect Non-Compliance Device [Disabled]

Use the **Detect Non-Compliance Device** option to enable or disable detecting if a non-compliance PCI Express device is connected to the PCI Express slot.

→	Disabled	DEFAULT	Disables to detect if a non-compliance PCI
			Express device is connected to the PCI Express
			slot.
→	Enabled		Enables to detect if a non-compliance PCI Express
			device is connected to the PCI Express slot.

5.4.1.2 PCH Azalia Configuration

Use the **PCH Azalia Configuration** submenu (**BIOS Menu 18**) to configure the High Definition Audio codec.

Aptio Setup 1	Utility - Copyright (C	C) 2015 America	n Megatrends, Inc.
PCH Azalia Configu:	ration		Control Detection of the Azalia device.
Azalia(HD Audio)	[Enable	d]	Disable = Azalia will be unconditionally disabled Enabled = Azalia will be unconditionally Enabled.
			<pre>←→: Select Screen ↑↓: Select Item EnterSelect + - Change Opt. F1 General Help P2 Dependent</pre>
			F2 Previous ValuesF3 Optimized DefaultsF4 Save & ExitESC Exit
Version 2.1	17.1246. Copyright (C)	2015 American	Megatrends, Inc.

BIOS Menu 18: PCH Azalia Configuration



→ Azalia(HD Audio) [Enabled]

Use the **Azalia(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.

5.4.2 System Agent (SA) Configuration

Use the **System Agent (SA) Configuration** menu (**BIOS Menu 19**) to configure the System Agent (SA) parameters.

	Copyright (C) 2015 Ameri	can Megatrends, Inc.
VT-d > Graphics Configuration > Memory Configuration	[Disabled]	Check to enable VT-d function on MCH. ←→: Select Screen ↑↓: Select Item EnterSelect + - Change Opt. F1 General Help F2 Previous Values F3 Optimized Defaults
		F4 Save & Exit ESC Exit
Version 2.17.1246. C	Copyright (C) 2015 America	an Megatrends, Inc.

BIOS Menu 19: System Agent (SA) Configuration

→ VT-d [Disabled]

Use the VT-d option to enable or disable VT-d support.

- **Disabled DEFAULT** Disable VT-d support.
- Enabled Enable VT-d support.

5.4.2.1 Graphics Configuration

Use the **Graphics Configuration** menu (**BIOS Menu 20**) to configure the graphics settings.

Aptio Setup Uti	lity - Copyright (C) 2015 Ame	erican Megatrends, Inc.
C	Chipset	
Graphics Configuration	'n	Select which of
Drimary Digplay	[Auto]	Auto/IGFX/PCIE Graphics
Primary Display		device should be Primary
DVMT Pre-Allocated	[256M]	Display Or select SG for
DVMT Total Gfx Mem	[MAX]	Switchable Gfx.
> LCD Control		
		\leftrightarrow : Select Screen
		$\uparrow \downarrow$: Select Item
		EnterSelect
		+ - Change Opt.
		F1 General Help
		F2 Previous Values
		F3 Optimized Defaults
		F4 Save & Exit
		ESC Exit
Version 2.17.1	1246. Copyright (C) 2015 Amer:	ican Megatrends, Inc.

BIOS Menu 20: Graphics Configuration

→ Primary Display [Auto]

Use the **Primary Display** option to select the graphics controller used as the primary boot device. Configuration options are listed below:

- Auto **DEFAULT**
- IGFX
- PCIE

→ DVMT Pre-Allocated [256M]

Use the **DVMT Pre-Allocated** option to set the amount of system memory allocated to the integrated graphics processor when the system boots. The system memory allocated can then only be used as graphics memory, and is no longer available to applications or the operating system. Configuration options are listed below:

32M

- 64M
- 128M
- 256M **DEFAULT**
- 512M

→ DVMT Total Gfx Mem [MAX]

Use the **DVMT Total Gfx Mem** option to select DVMT5.0 total graphic memory size used by the internal graphic device. The following options are available:

- 128M
- 256M
- MAX DEFAULT

→ Primary IGFX Boot Display [VBIOS Default]

Use the **Primary IGFX Boot Display** option to select the display device used by the system when it boots. Configuration options are listed below.

- VBIOS Default
 DEFAULT
- CRT
- LVDS
- HDMI

5.4.2.2 Memory Configuration

Use the **Memory Configuration** submenu (**BIOS Menu 21**) to display the memory information.

Aptio Setup Utility Chips	– Copyright (C) 2015 Ameri <mark>et</mark>	can Megatrends, Inc.
Memory Information Total Memory CHA_DIMM 1 CHB_DIMM 1	4096 MB (DDR3) 2048 MB (DDR3) 2048 MB (DDR3)	<pre>←→: Select Screen ↑↓: Select Item EnterSelect + - Change Opt.</pre>
		F1 General Help F2 Previous Values F3 Optimized Defaults
Version 2 17 1246	Copyright (C) 2015 America	F4 Save & Exit ESC Exit

BIOS Menu 21: Memory Configuration

5.5 Boot

Use the **Boot** menu (**BIOS Menu 22**) to configure system boot options.

Aptio Setup Utility - Cop	pyright	(C) 2015 Am	erica	n Mega	trends, Inc.
Main Advanced Chipset	Boot	Security	Save	& Exi	t Server Mgmt
Boot Configuration Bootup NumLock State Quiet Boot	[On] [Enable	· •			st the keyboard ock state
Option ROM Messages Launch PXE OpROM UEFI Boot	[Force [Disab] [Disab]	led]			Select Screen Select Item
Boot Option Priorities				+/-: F1: F2: F3:	Save & Exit
Version 2.17.1246. Copy	right (C	2) 2015 Ame:	rican	Megati	rends, Inc.

BIOS Menu 22: Boot

➔ Bootup NumLock State [On]

Use the **Bootup NumLock State** BIOS option to specify if the number lock setting must be modified during boot up.

- ➤ On DEFAULT Allows the Number Lock on the keyboard to be enabled automatically when the computer system boots up. This allows the immediate use of the 10-key numeric keypad located on the right side of the keyboard. To confirm this, the Number Lock LED light on the keyboard is lit.
- ➔ Off Does not enable the keyboard Number Lock automatically. To use the 10-keys on the keyboard, press the Number Lock key located on the upper left-hand corner of the 10-key pad. The Number Lock LED on the keyboard lights up when the Number Lock is engaged.

→ 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

→ Option ROM Messages [Force BIOS]

Use the **Option ROM Messages** option to set the Option ROM display mode.

→	Force	DEFAULT	Sets display mode to force BIOS.
	BIOS		
→	Кеер		Sets display mode to current.
	Current		

→ Launch PXE OpROM [Disabled]

Use the **Launch PXE OpROM** option to enable or disable boot option for legacy network devices.

→	Disabled	DEFAULT	Ignore all PXE Option ROMs				
→	Enabled		Load PXE Option ROMs				
→ UE	→ UEFI Boot [Disabled]						
Use	the UEFI Boo	t BIOS option t	o enable or disable UEFI boot.				
→	Disabled	DEFAULT	Disable UEFI boot.				
→	Enabled		Enable UEFI boot if the 1 st boot device is a GPT				

5.6 Security

Use the Security menu (BIOS Menu 23) to set system and user passwords.

HDD.

Aptio Setup U	tility - Co	pyright	(C) 2015 Am	nerica	n Mega	trends	s, Inc.
Main Advanced	Chipset	Boot	Security	Save	& Exi	t S	Server Mgmt
Password Description	n		-		Set A Passw		strator
If ONLY the Administ then this only limi only asked for when If ONLY the User's p is a power on passw	ts access t entering S password is	to Setup a Setup. s set, the	and is en this				
boot or enter Setup have Administrator : The password must be	. In Setup rights.						Screen
In the following rat Maximum length	nge:	3				Select Change	e Opt.
Minimum length		20			F1:	Genera	al Help ous Values
Administrator Passw	ord				F3:	Optimi	ized Defaults
User Password						Save &	
Version 2.17	.1246. Cop	yright (C) 2015 Ame:	rican	Megatı	rends,	Inc.

BIOS Menu 23: 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.

5.7 Save & Exit

Use the **Save & Exit** menu (**BIOS Menu 24**) to load default BIOS values, optimal failsafe values and to save configuration changes.

Aptio Setup Utility -	Copyright	(C) 2015 Ar	nerica	n Megatren	ds, Inc.
Main Advanced Chipset	Boot	Security	Save	& Exit	Server Mgmt
Save Changes and Reset Discard Changes and Reset					e system after Ne changes.
Restore Defaults Save as User Defaults Restore User Defaults					
				<pre>↑↓: Sele EnterSele +/-: Char F1: Gene F2: Prev</pre>	ect nge Opt. eral Help vious Values mized Defaults e & Exit
Version 2.17.1246. C	opyright (0	C) 2015 Ame	rican	Megatrend	s, Inc.

BIOS Menu 24: 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.

5.8 Server Management

Use the Server Mgmt menu (BIOS Menu 25) to configure BMC network parameters.

Aptio Setup Utility -	Copyright (C) 2015 Am	erica	n Megatrends, Inc.
Main Advanced Chipset	t Boot	Security	Save	& Exit Server Mgmt
BMC Self Test Status	FAILED			Press <enter> to change the SEL event log</enter>
> System Event Log				configuration.
> BMC network configuration	L			
				$\leftarrow \rightarrow$: Select Screen
				↑ ↓: Select Item
				EnterSelect
				+ - Change Opt.
				F1 General Help
				F2 Previous Values
				F3 Optimized Defaults
				F4 Save & Exit
				ESC Exit
Version 2.17.1246. (Copyright (C)	2015 Ame:	rican	Megatrends, Inc.

BIOS Menu 25: Server Management

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5.8.1 System Event Log

Use the **System Event Log** menu (**BIOS Menu 26**) to configure the system event log of the BMC.

	Server Mgmt
	Change this to enable or
Enabled]	disable all features of
	System Event Logging
	during boot.
No]	
Do Nothing]	
	\leftrightarrow : Select Screen
	$\uparrow \downarrow$: Select Item
Both]	EnterSelect
	+ - Change Opt.
not take effect	F1 General Help
	F2 Previous Values
	F3 Optimized Defaults
	F4 Save & Exit
	ESC Exit
ht (C) 2015 American	Megatrends, Inc.
	No] Do Nothing] Both] hot take effect

BIOS Menu 26: System Event Log

→ SEL Components [Enabled]

Use the **SEL Components** option to enable or disable all features of System Event Log (SEL) when the system boots.

- ➔ Disabled System Event Log is disabled.
- Enabled DEFAULT System Event Log is enabled.

→ Erase SEL [No]

Use the Erase SEL option for erasing SEL.

- ➔ No DEFAULT Do not erase system event log.
- Yes, On next
 Erase system event log on next reset.



Yes, On Erase system event log on every reset.
 every reset

→ When SEL is Full [Do Nothing]

Use the When SEL is Full option to select an reaction to a full SEL.

Do Nothing DEFAULT Do not do anything when SEL is full.
 Erase Erase Erase SEL immediately when SEL is full.

→ Log EFI Status Codes [Both]

Use the **Log EFI Status Codes** option to configure how to log Extensible Firmware Interface (EFI) status codes.

→	Disabled		Disable the logging of EFI status codes.
→	Both	DEFAULT	Log both error codes and progress codes.
→	Error code		Log error codes only.
→	Progress code		Log progress codes only.



5.8.2 BMC Network Configuration

Use the **BMC Network Configuration** menu (**BIOS Menu 27**) to configure the BMC network parameters.

Aptio Setup Utility - Cop	oyright (C) 2015 Americ	an Megatrends, Inc.
		Server Mgmt
BMC network configuration		Select to configure LAN channel parameters
Lan channel 1		statically or
Configuration Address source	[Unspecified]	dynamically (by BIOS or BMC). Unspecified option
Station IP address	-	will not modify any BMC
Subnet mask	-	network parameters
Station MAC address	-	during BIOS phase.
Router IP address	-	
Router MAC address	-	
		$\leftarrow \rightarrow$: Select Screen
		$\uparrow\downarrow$: Select Item
		EnterSelect
		+ - Change Opt.
		F1 General Help
		F2 Previous Values
		F3 Optimized Defaults
		F4 Save & Exit
		ESC Exit
Version 2.17.1246. Copy:	right (C) 2015 Americar	n Megatrends, Inc.

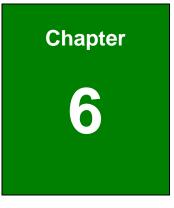
BIOS Menu 27: BMC Network Configuration

→ Configuration Address source [Unspecified]

Use the **Configuration Address source** option to configure LAN channel parameters statically or dynamically (by BIOS or BMC). Choosing the **Unspecified** option will not modify any BMC network parameters during BIOS phase. The following options are available:

- Unspecified **DEFAULT**
- Static
- Dynamic-Obtained by BMC
- Dynamic-Loaded by BIOS
- Dynamic-BMC running other Protocol





System Maintenance



6.1 System Maintenance Introduction

If the components of the POC-W22A-H81 fail they must be replaced. Please contact the system reseller or vendor to purchase the replacement parts.

6.2 Anti-static Precautions

🖄 WARNING:

Failure to take ESD precautions during the maintenance of the POC-W22A-H81 may result in permanent damage to the POC-W22A-H81 and severe injury to the user.

Electrostatic discharge (ESD) can cause serious damage to electronic components, including the POC-W22A-H81. Dry climates are especially susceptible to ESD. It is therefore critical that whenever the POC-W22A-H81 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 POC-W22A-H81, place it on an anti-static pad. This reduces the possibility of ESD damaging the POC-W22A-H81.
- Only handle the edges of the PCB: When handling the PCB, hold the PCB by the edges.



6.3 Turn off the Power



Failing to turn off the system before opening it can cause permanent damage to the system and serious or fatal injury to the user.

Before any maintenance procedures are carried out on the system, make sure the system is turned off.

6.4 System Fan Replacement

The POC-W22A-H81 has one system fan which can be accessed by removing the back cover. To replace the system fan, follow the instructions below.

- Step 1: Follow all anti-static procedures. See Section 6.2.
- Step 2: Turn off the power. See Section 6.3.
- Step 3: Remove the back cover. See Section 3.4.
- **Step 4:** Remove the three system fan retention screws (M3*8) and disconnect the fan cable. Lift the fan from the system.

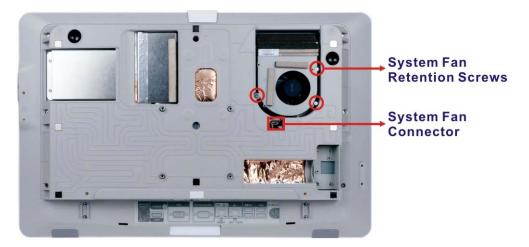


Figure 6-1: System Fan Retention Screws and Connector



- Step 5: Install a new system fan and secure it with the previously removed retention screws.
- Step 6: Re-install the back cover.

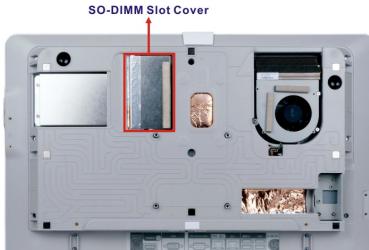
6.5 SO-DIMM Replacement

The POC-W22A-H81 has two SO-DIMM slots. Each SO-DIMM slot is pre-installed with one 2 GB DDR3 SO-DIMM. To replace the SO-DIMM, follow the instructions below.

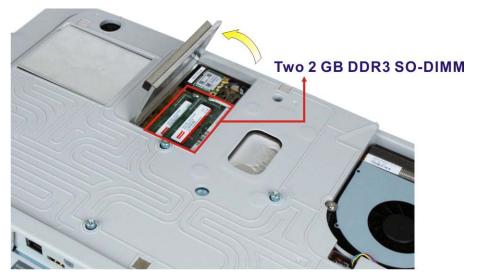
- Step 1: Follow all anti-static procedures. See Section 6.2.
- Step 2: Turn off the power. See Section 6.3.
- Step 3: Remove the back cover. See Section 3.4.
- Step 4: Locate the SO-DIMM slot cover (Figure 6-2).

Figure 6-2: SO-DIMM Slot Cover Location

Step 5: To access the SO-DIMMs, simply open the SO-DIMM slot cover (See Figure 6-3).







Integration Corp.

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Figure 6-3: SO-DIMM Locations

- **Step 6:** Remove the SO-DIMM by releasing the arms on the SO-DIMM socket.
- Step 7: Align the new SO-DIMM with the socket. The SO-DIMM must be oriented in such a way that the notch in the middle of the SO-DIMM must be aligned with the plastic bridge in the socket (Figure 6-4).
- Step 8: Insert the SO-DIMM. Push the SO-DIMM chip into the socket at an angle (Figure 6-4).

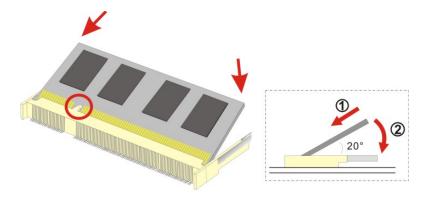


Figure 6-4: SO-DIMM Installation

Step 9: Open the SO-DIMM socket arms. Gently pull the arms of the SO-DIMM socket out and push the rear of the SO-DIMM down (See **Figure 6-4**).

- **Step 10:** Secure the SO-DIMM. Release the arms on the SO-DIMM socket. They clip into place and secure the SO-DIMM in the socket.
- Step 11: Close the SO-DIMM slot cover.
- Step 12: Re-install the back cover.

6.6 Reinstalling the Back Cover



Failing to reinstall the back cover may result in permanent damage to the system. Please make sure all coverings are properly installed.

When maintenance procedures are complete, please make sure the plastic back cover is replaced.

6.7 Troubleshooting

If the following situations happen, contact your distributor, sales representatives or IEI customer service center for technical support.

- The HDD is installed correctly, but the POC-W22A-H81 is unable to boot with AC power input after pressing the power button.
- Unable to shut down the POC-W22A-H81 normally
- The system fan makes a loud and annoying noise

Please have the following information prepared prior to reporting the abnormal situations:

- Product name and S/N
- OS, BIOS version and applications
- A complete description of the abnormal situation (with photos or video if available)



Appendix

Regulatory Compliance





DECLARATION OF CONFORMITY

CE

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 zařízení 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 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]

ΙΕΙ 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 Integration 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-Dirrettiva 2014/53/EU.

Magyar [Hungarian]

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



Româna [Romanian]

IEI Integration Corp declară că acest echipament este in 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 utrustningstyp står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2014/53/EU.

FCC WARNING

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:

- 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.





UL CLASSIFIED

Medical general medical equipment with respect to electrical shock, fire and mechanical hazards only in accordance with ANSI/AAMI ES60601-1 (2005 and Amendment 1), CAN/CSA-C22.2 NO. 60601-1 (2014).

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.

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.

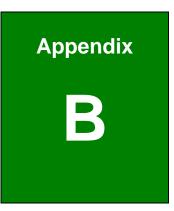












Safety Precautions





The precautions outlined in this chapter should be strictly followed. Failure to follow these precautions may result in permanent damage to the POC-W22A-H81.

B.1 Safety Precautions

Please follow the safety precautions outlined in the sections that follow:

B.1.1 General Safety Precautions

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

- 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 POC-W22A-H81 is opened.
- Make sure the power is turned off and the power cord is disconnected whenever the POC-W22A-H81 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 POC-W22A-H81 chassis is opened when the POC-W22A-H81 is running. To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.
- Do not drop or insert any objects into the ventilation openings of the POC-W22A-H81.
- If considerable amounts of dust, water, or fluids enter the POC-W22A-H81, turn off the power supply immediately, unplug the power cord, and contact the POC-W22A-H81 vendor.
- DO NOT:
 - O Drop the POC-W22A-H81 against a hard surface.
 - O Strike or exert excessive force onto the LCD panel.
 - O Touch any of the LCD panels with a sharp object
 - O In a site where the ambient temperature exceeds the rated temperature

B.1.2 Anti-static Precautions



Failure to take ESD precautions during the installation of the POC-W22A-H81 may result in permanent damage to the POC-W22A-H81 and severe injury to the user.

Electrostatic discharge (ESD) can cause serious damage to electronic components, including the POC-W22A-H81. Dry climates are especially susceptible to ESD. It is therefore critical that whenever the POC-W22A-H81 is opened and any of the electrical components are 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 any electrical component.
- Self-grounding: Before handling any electrical component, touch any grounded conducting material. During the time the electrical component is handled, frequently touch any conducting materials that are connected to the ground.

- Use an anti-static pad: When configuring or working with an electrical component, place it on an anti-static pad. This reduces the possibility of ESD damage.
- Only handle the edges of the electrical component. When handling the electrical component, hold the electrical component by its edges.

B.1.3 Product Disposal

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

Dispose of used batteries according to instructions and local regulations.

- 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.

B.1.4 Classification

- Power by Class I power supply (IEI, POC-W22A-H81)
- No Applied Part.
- No protection against the ingress of water: IPX0
- Mode of operation: Continuous Operation

The equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide: Not AP or APG Category.

B.2 Maintenance and Cleaning Precautions

When maintaining or cleaning the POC-W22A-H81, please follow the guidelines below.



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.

CAUTION:

- For safety reasons, turn-off the power switch and unplug the panel PC before cleaning.
- Do not scratch or rub the screen with a hard object.
- Never use any of the following solvents on the medical panel PC.
 Harsh chemicals may cause damage to the cabinet and the touch sensor.

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

B.2.1 Maintenance and Cleaning

Prior to cleaning any part or component of the POC-W22A-H81, please read the details below.

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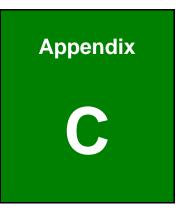
- To clean the POC-W22A-H81,
 - remove dirt with a lightly moistened cloth. Then wipe the external chassis with a soft dry cloth.
 - O use 75% ethanol alcohol to clean the external chassis.
- Cleaning frequency: follow the cleaning method guidelines of the hospital.
- Except for the LCD panel, never spray or squirt liquids directly onto any other components.
- The interior of the POC-W22A-H81 does not require cleaning. Keep fluids away from the POC-W22A-H81 interior.
- Never drop any objects or liquids through the openings of the POC-W22A-H81.

B.2.2 Cleaning Tools

Some components in the POC-W22A-H81 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 POC-W22A-H81.

- Cloth Although paper towels or tissues can be used, a soft, clean piece of cloth is recommended when cleaning the POC-W22A-H81.
- Water/Ethanol alcohol A cloth moistened with water or 75% ethanol alcohol can be used to clean the POC-W22A-H81.
- Using solvents The use of solvents is not recommended when cleaning the POC-W22A-H81 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.





EMC Test Summary



Guidance and manufacturer's declaration – electromagnetic emissions

The model POC-W22A-H81 is intended for use in the electromagnetic environment specified below. The customer or the user of the model POC-W22A-H81 should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment – guidance
RF emissions CISPR 11		The model POC-W22A-H81 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11		The model POC-W22A-H81 is suitable for use in all establishments, including domestic
Harmonic emissions IEC 61000-3-2		establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for
Voltage fluctuations/ flicker emissions IEC 61000-3-3		domestic purposes.

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Recommended separation distances between portable and mobile RF communications equipment and the model POC-W22A-H81

The model POC-W22A-H81 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the model POC-W22A-H81 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the model POC-W22A-H81 as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of	Separation distance according to frequency of transmitter			
transmitter W	150 kHz to 80 MHz $d = 1, 2^{\sqrt{P}}$	80 MHz to 800 MHz $d = 1, 2\sqrt{P}$	800 MHz to 2,5 GHz $d = 2,3\sqrt{P}$	
0,01	0,12	0,12	0,23	
0,1	0,38	0,38	0,73	
1	1,2	1,2	2,3	
10	3,8	3,8	7,3	
100	12	12	23	

For transmitters rated at a maximum output power not listed above, the recommended separation distance *d* in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where *P* is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is

affected by absorption and reflection from structures, objects and people.

Guidance and manufacturer's declaration - electromagnetic immunity

The model POC-W22A-H81 is intended for use in the electromagnetic environment specified below. The customer or the user of the model POC-W22A-H81 should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	±2 kV for power supply lines ±1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV line(s) to line(s) ±2 kV line(s) to earth	±1 kV line(s) to line(s) ±2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5 % <i>U</i> T (>95 % dip in <i>U</i> T) for 0,5 cycle 40 % <i>U</i> T (60 % dip in <i>U</i> T) for 5 cycles 70 % <i>U</i> T (30 % dip in <i>U</i> T) for 25 cycles <5 % <i>U</i> T	<5 % <i>U</i> T (>95 % dip in <i>U</i> T) for 0,5 cycle 40 % <i>U</i> T (60 % dip in <i>U</i> T) for 5 cycles 70 % <i>U</i> T (30 % dip in <i>U</i> T) for 25 cycles <5 % <i>U</i> T	Mains power quality should be that of a typical commercial or hospital environment. If the user of the model POC-W22A-H81 requires continued operation during power mains interruptions, it is recommended that the model POC-W22A-H81 be powered from an uninterruptible power supply or a battery.
	(>95 % dip in <i>U</i> T) for 5 sec	(>95 % dip in <i>U</i> T) for 5 sec	

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POC-W22A-H81 Medical Panel PC

Power frequency	3 A/m	3 A/m	Power frequency
(50/60 Hz)			magnetic fields should be
magnetic field			at levels characteristic of
			a typical location in a
			typical commercial or
IEC 61000-4-8			hospital environment.
	•		•

NOTE: UT is the a.c. mains voltage prior to application of the test level.

Guidance and manufacturer's declaration - electromagnetic immunity

The model POC-W22A-H81 is intended for use in the electromagnetic environment specified below. The customer or the user of the model POC-W22A-H81 should assure that it is used in such an environment.

Immunity test	IEC 60601 test	Compliance	Electromagnetic environment –		
	level	level	guidance		
			Portable and mobile RF communications equipment should be used no closer to any part of the model POC-W22A-H81, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.		
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	Vrms	Recommended separation distance $d = 1, 2^{\sqrt{P}}$		
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2,5 GHz	V/m	$d = 1, 2\sqrt{P}$ 80 MHz to 800 MHz $d = 2, 3\sqrt{P}$ 800 MHz to 2,5 GHz		
			where <i>P</i> is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m).		



b

Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, ^a should be less than the compliance level in each frequency range. ^b

Interference may occur in the vicinity of equipment marked with the following symbol:

((•))

NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

^a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the model POC-W22A-H81 is used exceeds the applicable RF compliance level above, the model POC-W22A-H81 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the model POC-W22A-H81.

Over the frequency range 150 kHz to 80 MHz, field strengths should be less than V/m.





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Watchdog Timer





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 E-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.





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 ;





Hazardous Materials Disclosure

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The details provided in this appendix are to ensure that the product is compliant with the Peoples Republic of China (China) RoHS standards. The table below acknowledges the presences of small quantities of certain materials in the product, and is applicable to China RoHS only.

A label will be placed on each product to indicate 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.

Please refer to the following table.

Part Name	Toxic or Hazardous Substances and Elements						
	Lead	Mercury	Cadmium	Hexavalent	Polybrominated	Polybrominated	
	(Pb)	(Hg)	(Cd)	Chromium	Biphenyls	Diphenyl Ethers	
				(CR(VI))	(PBB)	(PBDE)	
Housing	0	0	0	0	0	0	
Display	0	0	0	0	0	0	
Printed Circuit	0	0	0	0	0	0	
Board							
Metal Fasteners	0	0	0	0	0	0	
Cable Assembly	0	0	0	0	0	0	
Fan Assembly	0	0	0	0	0	0	
Power Supply	0	0	0	0	0	0	
Assemblies							
Battery	0	0	0	0	0	0	
O: This toxic or hazardous substance is contained in all of the homogeneous materials for the part is below the limit requirement in SJ/T11363-2006 (now replaced by GB/T 26572-2011).							

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 SJ/T11363-2006 (now replaced by GB/T 26572-2011).



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	汞	镉	六价铬	多溴联苯	多溴二苯
	(Pb)	(Hg)	(Cd)	(CR(VI))	(PBB)	醚
						(PBDE)
壳体	0	0	0	0	0	0
显示	0	0	0	0	0	0
印刷电路板	0	0	0	0	0	0
金属螺帽	0	0	0	0	0	0
电缆组装	0	0	0	0	0	0
风扇组装	0	0	0	0	0	0
电力供应组装	0	0	0	0	0	0
电池	0	0	0	0	0	0

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/T 11363-2006 (现由 GB/T 26572-2011 取代)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/T 11363-2006 (现由 GB/T 26572-2011 取代)标准规定的限量要求。