# **WTP-9G66**

# **Industrial Panel PC**



V1.0

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**Version Change History** 

Date	Version	Description	Remark
2021/4/12	1.0	First release	IVY

# Acknowledgments

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#### FCC Class B

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 18 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses and can radiate radio frequency energy. If not installed and used in accordance with this user manual, it may cause harmful interference to radio communications.

Note that even when this equipment is installed and used in accordance with this user manual, there is still no guarantee that interference will not occur. If this equipment is believed to be causing harmful interference to radio or television reception, this can be determined by turning the equipment on and off. If interference is occurring, 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 the receiver
- Connect the equipment to a power outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

#### Warning:

Any changes or modifications made to the equipment which are not expressly approved by the relevant standards authority could void your authority to operate the equipment.

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

Do not modify this equipment without authorization of the manufacturer.

## **Safety Instructions**

#### Intended use

The WTP-9G66 is intended to serve as an industrial monitor which is designed for general purpose for industrial environment.

#### **Intended User profile**

The equipment is intended for infant or adults by profession Health care professionals.

#### **Greeting & Setup**

Thank you for purchasing the WTP-9G66 unit. We wish that this unit will be durable and reliable in providing your industrial application needs. Please follow the instructions below to ensure the unit continues to have high performance.

#### Unpacking

After opening the carton, there will be a industrial panel PC unit with an accessory box. Examine the contents to see if there are damages to the unit and if all accessories are present.

#### Setting up

Please read this manual carefully and remember to keep this manual for future reference.

### Safety Instructions & Cleaning

The unit has undergone various tests in order to comply with safety standards. Inappropriate use of the open frame unit may be dangerous. Please remember to follow the instructions below to insure your safety during the installation and operating process.

# Transporting & Placement of unit

- When moving the unit on a cart; be very cautious. Quick stops, excessive forces and uneven surfaces may cause the cart to overturn thus risking the unit to fall to the ground.
- 2. If the industrial panel PC unit does fall to the ground, immediately turn the power off and disconnect cords. Then contact a service technician for repairs. Continual use of

- the unit may result cause a fire or electric shock. Also, do not repair the unit on your own.
- 3. Having two or more people transporting the display unit is recommended. In addition, when installing the unit by suspending it also requires two or more people.
- 4. Before suspending the unit, make sure the material used for suspension is sturdy and stable. If not properly suspended, the display unit may fall and cause serious injury to people standing nearby as well as to the unit itself.
- 5. If you wish to mount the display unit, remember to use only the mounting hardware recommended by the manufacturer.

#### **Electrical and Power Source Related**

- 1. This industrial panel PC unit must operate on a power source as shown on the specification label. If you are not sure what type of power supply used in the area, consult your dealer or local power supplier.
- 2. The power cords must not be damaged. Applied pressure, added heat, and tugging may damage the power cord.
- The power cord must be routed properly when setup takes place. We advise that this aspect measure is to prevent people from stepping on the cords or while the unit is suspended to prevent flying objects from getting tangled with the unit.
- 4. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.
- 5. Do not overload the AC outlets or extension cords. Electrical shocks or fires may occur from overloading.
- 6. Do not touch the power source during a thunderstorm.
- 7. If your hands are wet, do not touch the plug.
- 8. Use your thumb and index finger, grip firmly on the power cord to disconnect from the electrical socket. By pulling the power cord, may result in damaging it.
- 9. If the unit is not going to be in use for an extended period of time, remember to disconnect the unit.

10. The industrial panel PC unit uses voltage between 100-240VAC. Connect the unit to a power source with the same numerical value as shown. Please use only the power cord provided by the dealer to ensure safety and EMC compliance.

#### Various Factors of Environment

- 1. Do not insert objects into the openings.
- 2. Do not have liquids seep into the internal areas of the industrial panel PC unit.
- 3. Having liquids seep in or inserting objects into the unit may result in electric shocks from taking and/or short circuiting the internal parts.
- 4. Do not place the industrial panel PC unit in the presence of high moisture areas.
- 5. Do not install the industrial panel PC unit in a wet environment.
- 6. Do not place near unit near heat generating sources.
- 7. Do not place the unit in a location where it will come in contact with fumes or steam.
- 8. Remember to keep the industrial panel PC unit away from the presence of dust.
- 9. If water has flow in or seep in, immediately disconnect the open frame unit. Then contact a service technician for repairs.

### **Ventilation Spacing**

- 1. Do not cover or block the openings on the top and back sides of the display unit. Inadequate ventilation may cause overheating thus reducing the lifespan of the unit.
- 2. Unless proper ventilation is present, do not place unit in an enclosed area; such as a built-in shelf. Keep a minimum distance of 10 cm between the display unit and wall.

## **Operating principle**

 A Industrial Panel PC has four main components: the arithmetic logic unit (ALU), the control unit, the memory,

- and the input and output devices (collectively termed I/O). These parts are interconnected by buses, often made of groups of wires.
- The control unit, ALU, and registers are collectively known as a central processing unit (CPU).
- Inside each of these parts are thousands to trillions of small electrical circuits which can be turned off or on by means of an electronic switch. Each circuit represents a bit (binary digit) of information so that when the circuit is on it represents a "1", and when off it represents a "0" (in positive logic representation). The circuits are arranged in logic gates so that one or more of the circuits may control the state of one or more of the other circuits.

#### Cleaning the unit

- 1. Remember to turn off the power source and to unplug the cord from the outlet before cleaning the unit.
- 2. Carefully dismount the unit or bring the unit down from suspension to clean.
- 3. Please use a dry soft cloth to clean the unit.
- 4. Take a dry cloth and wipe the unit dry. Remember to avoid having liquids seep into the internal components and areas of the industrial panel PC unit.

### **Error message / Troubleshooting**

No power	1. Connect the AC adapter to the computer, and
	then plug it into an AC outlet.
	2. Turn on the computer.

### Servicing, Repairing, Maintenance & Safety Checks

1. If the unit is not functioning properly, observe the performance level of the display closely to determine what type of servicing is needed.

- Do not attempt to repair the industrial panel PC unit on your own. Disassembling the cover exposes users' to high voltages and other dangerous conditions. Notify and request a qualified service technician for servicing the unit.
- 3. To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.
- 4. If any of the following situations occur turn the power source off and unplug the unit. Then contact a qualified service technician.
  - (a) A liquid was spilled on the unit or objects have fallen into the unit.
  - (b) The unit is soaked with liquids.
  - (c) The unit is dropped or damaged.
  - (d) If smoke or strange odor is flowing out of the operating unit.
  - (e) If the power cord or plug is damaged.
  - (f) When the functions of the unit are dysfunctional.
- 5. When replacement parts are needed for the industrial panel PC unit, make sure service technicians use replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. If unauthorized parts are used it may result in starting a fire, electrical shock and/or other dangers.



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, or if applicable, follow any agreements made between yourself.

The mark on electrical and electronic products only applies to the current European Union Member States.

#### Caution:

DO NOT LEAVE THIS EQUIPMENT IN AN UNCONTROLLED ENVIRONMENT WHERE THE STORAGE TEMPERATURE IS BELOW -20°C (-4°F) OR ABOVE 60°C (140°F). THIS MAY DAMAGE THE EQUIPMENT.

This equipment shall not be used in life support systems.

The user is not to touch SIP/SOPs and the patient at the same time.

Caution – Use suitable mounting apparatus to avoid risk of injury.

Caution - Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions. (If battery pack is not used for 1 month, it is recommended to remove the battery pack from equipment.)

The sound pressure level at the operator's position according to IEC 704-1:1982 is no more than 70dB (A).

- A) Grounding reliability can only be achieved when the equipment is connected to an equivalent receptacle marked "Hospital Only" or "Hospital Grade".
- B) 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.
- C) Caution: This adapter is a forming part of the industrial device

#### Contact information:

Wincomm Corporation 3F, No.14, Prosperity Road II, Science-Based Industrial Park, Hsinchu, Taiwan 300, R.O.C

TEL: (886) 3 5780000

E-Mail: sales\_support@wincomm.com.tw

Table of Contents	
AcknowledgmentsFCC Class B	
Safety Instructions	
Introduction	9
Product Description	9
Package list	
Features	11
Specifications	12
Getting Started	16
System Set Up	16
Dimension	17
Mounting instruction	26
Disconnect Device	32
BIOS Setup	33
Appendix	45
A. Jumper settings and Connectors	45
11. Jumper Settings and Connectors	тЭ

# Introduction

# **Product Description**

The WTP-9G66 Industrial Panel PC is based on Intel® 8th Generation Core i7/i5 CPU, it accommodates one 2.5" SATA III hard disk drive, one M.2 SATA SSD and up to 32GB DDR4 SODIMM.

The high brightness LCD, Fanless solution, integrated multimedia functions and extensive expansion options make them the perfect platform upon which to build comprehensive lifestyle computing applications.

The WTP-9G66 includes all the features of a powerful computer into a slim and attractive chassis.

The WTP-9G66 is compact, Giga LAN and selectable WLAN network compatible PC with full safety and industrial approval and features to control a dedicated system with a wide variety of applications. Combining the WTP-9G66 into your system can achieve both cost-saving and efficient improvements.

Common applications and Electronic Industrial Record. The WTP-9G66 are definitely your perfect choices.

# Package list

Before you begin installing your Industrial Station, please make sure that the following items have been shipped:

- The WTP-9G66 Industrial Panel PC unit
- User's manual, chipset drivers
- Power Adapter x 1
- Power cord –US type, or other type in UK, EU...etc.

#### **Features**

- Intel® 8th Generation Core i7/i5 CPU
- Res or P-Cap Touch with IP69K Design
- Vpro Support by CPU
- CE, FCC, VCCI Class B Passed
- Optional Cable Gland for External I.O.
- Special Inspection of 100% Waterproof Guarantee

# Specifications

**Hardware Specifications** 

nardware Specifications		
Display	15" 450 nits 1024 x 768 TFT LCD 19" 350 nits 1280X 1024 TFT LCD 21.5" 250 nits 1920 x 1080 TFT LCD 24" 250nits 1920 x 1080 TFT LCD	
CPU Support	Intel® 8th Gen (Whiskey lake-U) Core™ MCP Processor	
Disk Drive Space	1 x M.2 (KEY M, 2242/2260/2280) with SATA3 for SSD 1 x SATA3	
Expansion	1 x M.2 (KEY E, 2230) for Wireless	
I/O	USB – 2.0 x 4 COM - RS232/RS422/RS485 x 2 LAN - RJ-45 x 1 (Gigabit Ethernet) Audio - 3.5mm phone jack connector * 2 (Line-out, and Mic-in) Video output - HDMI 2.0a x 1, DP 1.2 x 1	

**LCD Specifications** 

202 opeomodione		
15"		
1024x768 XGA		
800:1		
0.297(H) × 0.297(V)		
450		
160°(H)		
160°(V)		
21.5"		
1920x1080 Full HD		
1000:1		
248.25 (H)×248.25(V)		
250		
170 °(H) 160 °(V)		

Display Type	19"
Max. Resolution	1280x1024 SXGA
Contrast Ratio	1000:1
Pixel Pitch (um)	294 (H)×294(V)
Luminance (cd/m2)	350
Viewing Angle	170°(H)
Viewing Angle	160°(V)

Display Type	23.8
Max. Resolution	1920x1080 Full HD
Contrast Ratio	3000:1
Pixel Pitch (um)	274.5 (H)×274.5(V)
Luminance (cd/m2)	250
Viewing Angle	178°(H)
Viewing Angle	178°(V)

## **Power Adapter Specifications**

Power	Close-frame	
MFR	Sinpro	
Input Rating	AC 100 ~ 277 V, 47 ~ 63 Hz	
Output Rating	DC 24V/5A (MAX 120W)	
MTBF	100K hrs operation at 25 ℃	
Classification	Power by Class I certified power adapter.  No applied part.	
Mode of operation	Continuous operation	
System input rating	DC 24V, 5A	

# **Mechanical Specifications**

Architecture	Close-frame	
Front Bezel	PCT touch screen or RES touch screen With stainless (304)	
Color	Sliver	
Mounting / Holder	VESA 100X100 mm	
Dimension (WxHxD)	15" - 398 x 309.5 x 58 (mm) 19" - 458 x 386 x 64 (mm) 21.5" –557 x 348.5 x 58.5 (mm) 24" - 626.6 x 396.1 x 64.0 (mm)	
Net Weight	15" – 8.4 kg (w/o power adapter) 19" – 11.5 kg (w/o power adapter) 21.5" – 12 kg (w/o power adapter) 24" – 14.8 kg (w/o power adapter)	
Packing Filler	PE	

## **Environmental Specifications**

Temperature	Operating:0 °C to 40 °C by HDD 0 °C to 50 °C by SSD Storage, Transportation: -20 °C to 60 °C (-4 °F ~140 °F)	
Vibration	Operating: 15g/0.53 oz, 11 ms, half sine wave Non-operating: 50g/1.76 oz, 11 ms, half sine wave	
Shock	Operating: 5 ~ 17 Hz , Amplitude: 0.117 ~ 500Hz , Acceleration: 1.0G Non-operating:10~55Hz/0.15g, 55~500Hz/2.0g	

Altitudes	Operational: up to 3000 m (9842 feet) Shipping: up to 12192 m (40000 feet)
Pressure	700 – 1060 hPa (Operation) 186 – 1060 hPa (Storage) 186 – 1060 hPa (Transportation)
EMI / Safety	CE / FCC / VCCI Class B
IP	IP69K
Noise	Fanless

## **Touch Screen**

# P.cap Touch

Туре	Full flat projective capacitive touch panel
Interface	Controller with USB interface, 5V
Hardness	>=7H
Light Transmission	>=86%
Life Time	100M times

#### Res touch

Type	Full flat resistive touch panel	
Interface	Controller with USB interface, 5V	
Hardness	<i>≧3H</i>	
Light Transmission	80% ± 5%	
Life Time	35M times	

# **Getting Started**

## **System Set Up**

The following is a summary of the steps in setting up the system for use.

- (1). You can fix the system to a mounting fixture using the screw holes on the sides of the system.
- (2). Make any required external connections such as the display, keyboard, and LAN.
- (3). Plug the appropriate end of the power cord into the power connector on the rear of the system and the plug to an electrical outlet.
- (4). **Waiting for 3 seconds** then press the power switch on the front panel of the system once to turn on the system power.
- (5). If necessary, run the BIOS SETUP programs to configure the system.

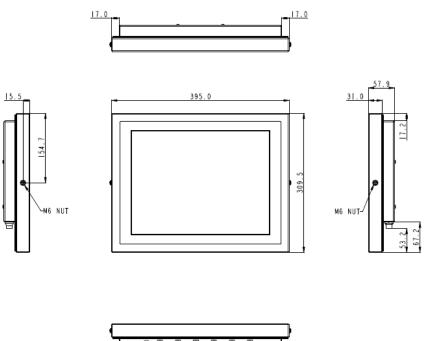
#### Caution:

In order to boot up system from USB-CD/DVD drive, please connect USB-CD/DVD drive, turn on computer power, keep on pressing "F11" key, go into BIOS quick boot menu, select "USB-CD ROM", WAIT FOR 20 SECONDS, then press enter, system OS will boot up from USB-CD/DVD drive directly.

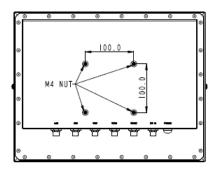
### Notice:

The installation is only to be carried out by manufacturer trained and authorized personnel.

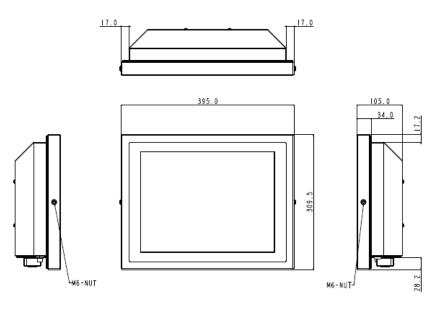
# WTP-9G66-15 standard

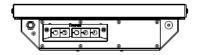




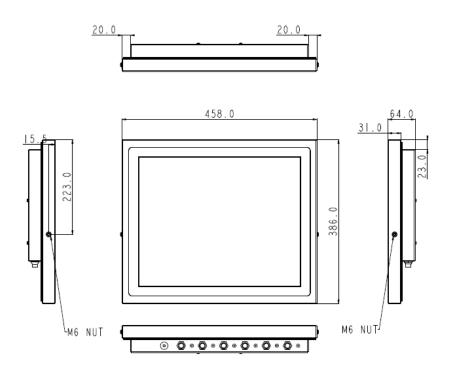


## WTP-9G66-15 Cable Gland

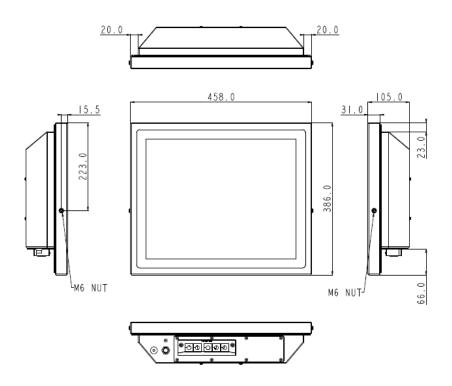




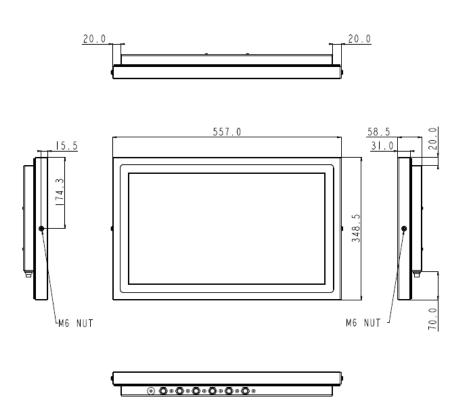
#### WTP-9G66-19 standard



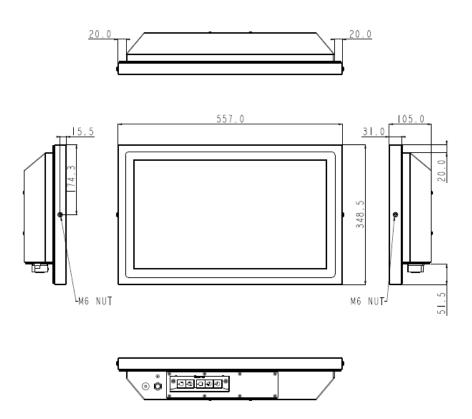
#### WTP-9G66-19 Cable Gland



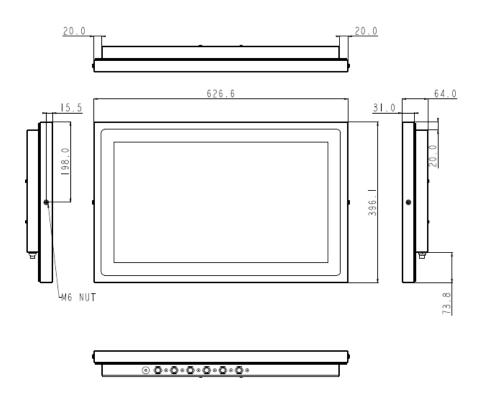
#### WTP-9G66-22 standard



#### WTP-9G66-22 Cable Gland



#### WTP-9G66-24



## **Front View**



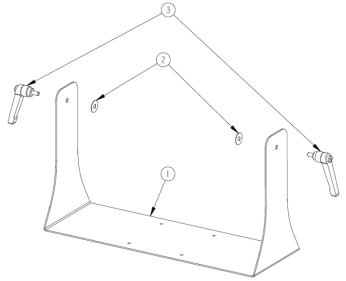
# I/O parts



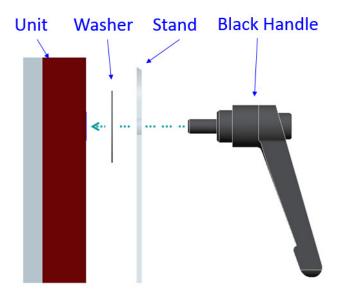
# **Mounting instruction**

Step 1. Please check out the following parts before assemble.

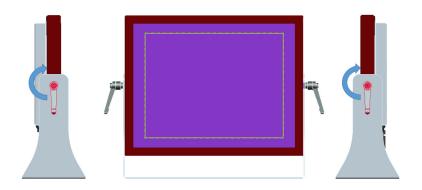
No.	Item	Quantity
1	Table Stand	1
2	Black Silicone Washer	2
3	Black Handle	2

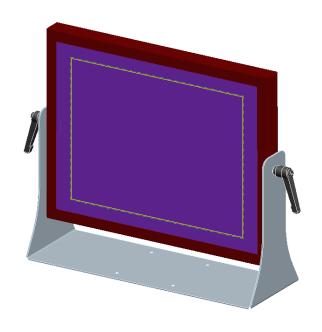


Step 2. Please follow the picture diagrams to assemble. Explode  $\ensuremath{\mathrm{View}}$ 



1. Step 3. Please tighten the black handle in a clockwise direction.

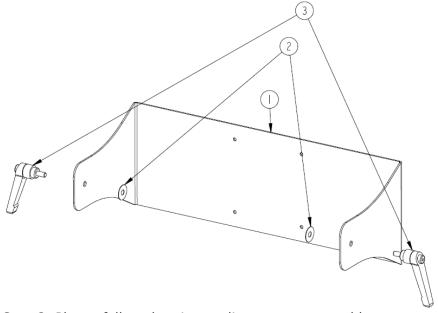




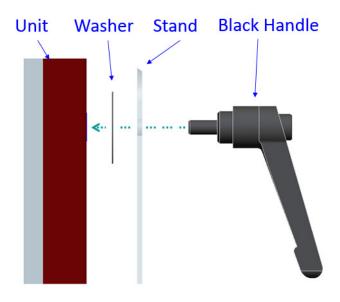
#### **Wall Mount Stand Assemble Instruction**

Step 1. Please check out the following parts before assemble.

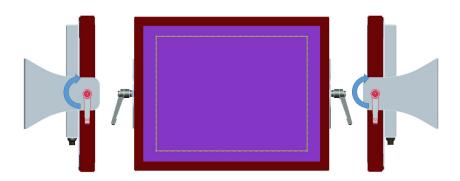
No.	Item	Quantity
1	Wall Mount Stand	1
2	Black Silicone Washer	2
3	Black Handle	2

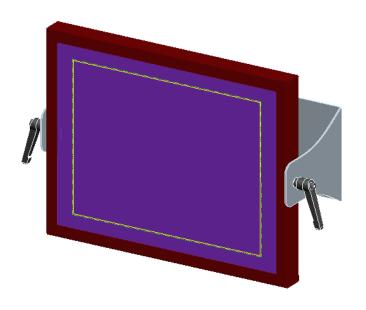


Step 2. Please follow the picture diagrams to assemble. Explode  $\ensuremath{\mathrm{View}}$ 

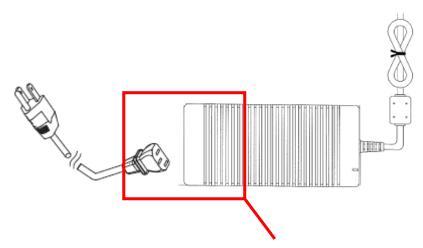


Step 3. Please tighten the black handle in a clockwise direction.





# **Disconnect Device**



Unplug the power cord from the power adapter jack to disconnect the device.

## Turn off the system:

Turning off WTP-9G66 properly is important for system reliability.

1. On the start menu, click "Shut down" and select "OK"

# **BIOS Setup**

### **BIOS Introduction**

The AMI BIOS (Basic Input / Output System) installed in your computer system's ROM supports Intel processors. The BIOS provides critical low-level support for a standard device such as disk drives, serial ports and parallel ports. It also adds virus and password protection as well as special support for detailed fine-tuning of the chipset controlling the entire system.

## **BIOS Setup**

The AMI BIOS provides a Setup utility program for specifying the system configurations and settings. The BIOS ROM of the system stores the Setup utility. When you turn on the computer, the AMI BIOS is immediately activated. Pressing the <Del> key immediately allows you to enter the Setup utility. If you are a little bit late pressing the <Del> key, POST (Power On Self Test) will continue with its test routines, thus preventing you from invoking the Setup. If you still wish to enter Setup, restart the system by pressing the "Reset" button or simultaneously pressing the <Ctrl>, <Alt> and <Delete> keys. You can also restart by turning the system Off and back On again. The following message will appear on the screen:

Press <DEL> to Enter Setup

In general, you press the arrow keys to highlight items, <Enter> to select, the <PgUp> and <PgDn> keys to change entries, <F1> for help and <Esc> to quit.

When you enter the Setup utility, the Main Menu screen will appear on the screen. The Main Menu allows you to select from various setup functions and exit choices.

#### Main



This section provides information on the BIOS information, Embedded controller information and Battery information

## **System Date**

Set the system date. Use the <Tab> key to switch between data elements.

## **System Time**

Set the system time. Use the <Tab> key to switch between time elements.

### **Advanced**



### **CPU Configuration**

CPU Configuration parameters

## **Intel SpeedStep Technology**

Intel SpeedStep technology allows processors to switch between multiple frequencies and voltage points for better power saving and heat dissipation.

## **CPU C states support**

Enable CPU C States support for power saving, It is recommended to keep C3,C6 and C7 all enabled for better power saving.

#### VT-d

Enable/Disable CPU VT-d

## **Chipset Configuration**

Configure Chipset settings

## DRAM Frequency

DRAM Frequency

## **Primary Graphics Adapter**

Select a primary VGA.

## **Share Memory**

Configure the size of memory that is allocated to the integrated graphics processor when the system boots up.

### **Active LFP**

Select eDP or LVDS to Display

### **Primary IGFX Boot Display**

Select the Video Device which will be activated during POST. This has no effect if external graphics present. Secondary boot display selection will appear based on your selection. VGA modes will be supported only on primary display.

### **Onboard HD Audio**

Auto/Enable/Disable onboard HD audio. Set to auto to enable on board HD audio and automatically disable it when a sound card is installed.

#### **Front Panel**

Select Front Panel Type

#### Onboard LAN 1

Enable or disable the onboard network interface controller.

#### Onboard LAN 2

Enable or disable the onboard network interface controller.

### **PCIE1 Link Speed**

Configure PCIE1 Slot Link Speed

### Deep S4/S5

Select system deep S4-S5 configuration

'Auto' will disable the deep S4-S5 configuration if RTC/LAN/USB device power on settings enabled.

## **Storage Configuration**

Configure Storage devices.

## **SATA Controllers(s)**

Enables/disable the SATA controllers.

### **SATA Mode Selection**

IDE: For better compatibility.

AHCI: Supports new features that improve performance.

## **SATA Aggressive Link Power Management**

SATA Aggressive Link Power Management allows SATA devices to enter a low power state during periods of inactivity to save power. It is only supported by AHCI mode.

### Hard Disk S.M.A.R.T

S.M.A.R.T stands for self-Monitoring, Analysis, and Reporting Technology, It is a monitoring system for computer hard disk drives to detect and report on various indicators of reliability.

### SATA3 1

#### **External SATA**

Enable SATA safe removal notifications. Please note that the SATA device will be downgraded to SATA2.

### **Hot Plug**

Enable or disable Hot Plug for this port.

### M2\_1:

#### **External SATA**

Enable SATA safe removal notifications. Please note that the SATA device will be downgraded to SATA2.

### **Hot Plug**

Enable or disable Hot Plug for this port

## **Super IO Configuration**

Configure Super IO Settings.

### **COM1 Configuration**

Set Parameters of COM1

#### **Serial Port**

Enable or Disable Serial Port (COM)

### **Type Select**

Set COM TYPE.

## **COM2 Configuration**

Set Parameters of COM1

### **Serial Port**

Enable or Disable Serial Port (COM)

## **COM3 Configuration**

Set Parameters of COM1

### **Serial Port**

Enable or Disable Serial Port (COM)

## COM4 Configuration

Set Parameters of COM1

### **Serial Port**

Enable or Disable Serial Port (COM)

## **COM5 Configuration**

Set Parameters of COM1

### **Serial Port**

Enable or Disable Serial Port (COM)

## **COM6 Configuration**

Set Parameters of COM1

### **Serial Port**

### Enable or Disable Serial Port (COM)

### **COM Port IRQ Mode**

Set COM port IRQ mode

#### **Parallel Port**

Select Parallel Port(LPT.LPTE) or GPIO. Enabled;LPT Disabled: GPIO

#### **Device mode**

Change the printer Port mode

### **Change Settings**

Select an optimal settings for Super IO Device

#### **WDT Timeout Reset**

Enable/Disable Watch Dog Timer Timeout to reset system.

### **ACPI Configuration**

Configure ACPI Settings.

### **Suspend to RAM**

It is recommended to select auto for ACPI S3 power saving

### **ACPI HPET Table**

Enable the high Precision Event Timer for better perforamance

## PS/2 Keyboard Power On

Allow the system to be waked up by a PS/2 Keyboard

#### **PCIE Devices Power On**

Allow the system to be waked up by a PCIE device and enable wake on LAN

#### **RTC Alarm Power ON**

Allow the System to be waked up by the real time clock alarm. Set it to By OS to let it be handled by your operating system.

## **USB** Configuration

Configure the USB support.

## **Legacy USB Support**

Enable Legacy USB support. AUTO option disables legacy support if no USB devices are connected. DISABLE option will keep USB Devices available only for EFI applications.

## Trusted Computing

Trusted Computing Settings.

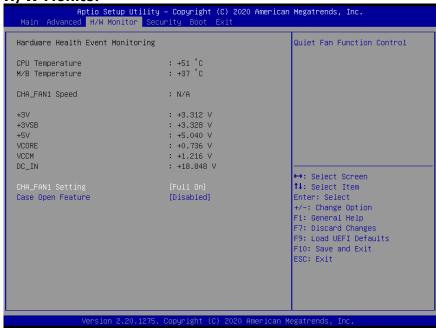
## **Security Device Support**

Enables or Disables BIOS support for security device. O.S. will not show Security Device. TCG EFI protocol and INT1A interface will not be available

#### **Instant Flash**

Save UEFI files in your USB storage device and run Instant Flash to update your UEFI. Please note that your USB storage device must be FAT32/16/12 or NTFS files system. Only root directory is working on NTFS drive.

**H/W Monitor** 



## CPU\_FAN1 Setting

Quiet Fan Function Control

## CHA\_FAN1 Setting

Quiet Fan Function Control

Security



### **Supervisor Password**

Set or change the password for the administrator account. Only the administrator has authority to change the settings in the UEFI setup Utility. Leave it blank and press enter to remove the password

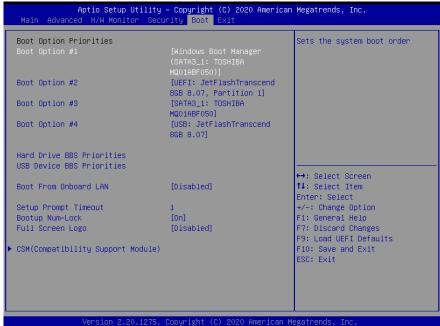
#### **User Password**

Set or change the password for the user account. Users are unable to change the settings in the UEFI Setup Utility. Leave it blank and press enter to remove the password.

#### Secure Boot

Enable to support Windows 8 secure boot.

#### **Boot**



### **Boot Option #1**

Sets the system boot order

### **Boot Option #2**

Sets the system boot order

## **Boot Option #3**

Sets the system boot order

## **Boot Option #4**

Sets the system boot order

### **Hard Drive BBS Priorities**

Set the order of the legacy devices in this group

## **USB Drive BBS Priorities**

Set the order of the legacy devices in this group

### **Boot From Onboard LAN**

Allow the system to be waked up by the onboard LAN.

## **Setup Prompt Timeout**

Configure the number of seconds to wait for the setup hot key .

## **Bootup Num-Lock**

Select whether Num Lock should be turned on or off when the system boots up.

### **Full Screen Logo**

Enable to display the boot logo or disable to show normal POST messages

## **CSM(Compatibility Support Module)**

OpRom execution, boot optios filter, etc.

#### CSM

Enable to launch the Compatibility Support Module. If you are using Windows 8 64-bit UEFI and all of your devices support UEFI, you may also disable CSM for faster boot speed..

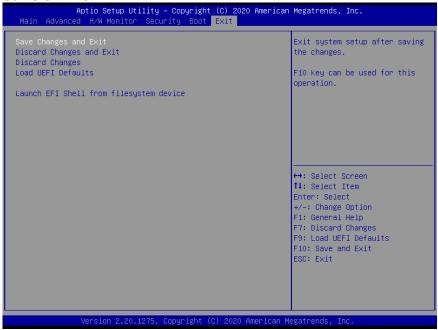
## **Launch PXE OpROM policy**

Select UEFI only to run those that support UEFI option ROM only. Select Legacy only to run those that support legacy option ROM only. Select Do not launch to not execute both legacy and UEFI option ROM.

## **Launch Video OpROM policy**

Select UEFI only to run those that support UEFI option ROM only. Select Legacy only to run those that support legacy option ROM only. Select Do not launch to not execute both legacy and UEFI option ROM.

#### Save & Exit



## Save Changes and Exit

Exit system setup after saving the changes. F10 key can be used for this operation.

## **Discard Changes and Exit**

Exit system setup without saving any changes. ESC key can be used for this operation.

## **Discard Changes**

Discard Changes done so far to any of the setup options. F7 key can be used for this operation..

### **Load UEFI Defaults**

Load UEFI Default values for all the setup questions. F9 key can be used for this operation..

## Launch EFI Shell from filesystem device

Attempts to Launch EFI Shell application (Shell.efi). from one of the available filesystem devices.

# **Appendix**

1: 4-Pin ATX Power Connector

(Input 12V or 19-28V) 1-2 : GND

3-4 : DC Input

Connector

1-2:+5V 2-3: +5VSB

SATA3 1 SATA3 2

9 : Panel Power Select

8 : 4-Pin CPU FAN Connector

Panel Power Select (LCD\_VCC) (PNL\_PWR1) 1-2: LCD\_VCC: +3V 2-3: LCD\_VCC: +5V 1 4-5: LCD\_VCC: +12V

100000

Pin1 : GND Pin2 : DC Input

## A. Jumper settings and Connectors

### **Jumpers and Headers Setting Guide**

