

# **WTP-9K66**

**Industrial Panel PC**

## **USER'S MANUAL**

V1.0

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## Version Change History

<b>Date</b>	<b>Version</b>	<b>Description</b>	<b>Remark</b>
2026/5/29	1.0	First release	

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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-9K66 is intended to serve as an industrial monitor which is designed for general purpose for industrial environment.

## **Intended User profile**

The intended users are commercial and institutional personnel who require a stainless display for product presentation, food placement, equipment organization, or merchandise display.

Typical user groups include:

- Retail operators
- Food service and hospitality personnel
- Exhibition and event setup staff
- Merchandising and visual display specialists
- Facility management and housekeeping personnel

## **Greeting & Setup**

Thank you for purchasing the WTP-9K66 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**

1. 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.
3. 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.

### **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	<ol style="list-style-type: none"> <li>1. Connect the AC adapter to the computer, and then plug it into an AC outlet.</li> <li>2. Turn on the computer.</li> </ol>
----------	--

### **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.
2. 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.*

**Contact information:**

Wincomm Corporation

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Hsinchu, Taiwan 300, R.O.C

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# **Introduction**

## **Product Description**

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The WTP-9K66 Industrial Panel PC is based on Intel Meteor Lake-U MCP processors

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-9K66 includes all the features of a powerful computer into a slim and attractive chassis.

The WTP-9K66 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-9K66 into your system can achieve both cost-saving and efficient improvements.

Common applications and Electronic Industrial Record. The WTP-9K66 are definitely your perfect choices.

## **Package list**

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

- The WTP-9K66 Industrial Panel PC unit
- User's manual, chipset drivers
- Power Adapter x 1 (type/model: LSU120A-108)
- Power cord –US type, or other type in UK, EU...etc.

## Features

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- 15 Intel® Core Ultra 125U Fanless Stainless Panel PC
- Bezel Free
- TPM 2.0 on Board
- IP66/69K Full Sealed with Anti-Corrosion Enclosure
- Support Intel® vPro Technology by CPU
- Optional IP67 M12 Stainless Connectors
- 100% Waterproof Guarantee
- CE, FCC, VCCI Class B Certified

# Specifications

## Hardware Specifications

Display	15" 350 nits 1024 x 768 TFT LCD 22" 250 nits 1920 x 1080 TFT LCD
CPU Support	Intel® Core™ Ultra processors (Meteor Lake-U) , 15 W
Disk Drive Space	1 x M.2 (Key M, 2242/2280) with PCIe Gen4 x4 for SSD 1 x M.2 (Key M, 2242) with PCIe Gen4 x4 for SSD
Expansion	1 x M.2 (Key E, 2230) with PCIe Gen4 x1, USB 2.0 and CNVi for Wireless 1 x M.2 (Key B, 3042/3052) with PCIe Gen4 x1, USB 3.2 Gen1, USB 2.0 and SIM for 4G/5G 1x SIM socket connected to M.2 key B
Serial port	COM1, COM2, COM3 (RS-232/422/485)
USB	External 2 x USB 3.2 Gen2 , 2 x USB 3.2 Gen2x2 (Type-C, 5V/3A, support DP 1.4a display output)  Internal 4 x USB 2.0 (2 x 2.00mm pitch header)
TPM2.0	TPM2.0(on board IC)
External IO (M12)	USB 1 x M12 8pin for USB 1/2(USB2.0)  COM 2 x M12 8pin for COM 1 & COM2 / RS-232/422/485  LAN 1 x M12 8pin for LAN 1 Power 1 x M12 5pin DC power connector  Type C 2 X USB 3.2 Gen2 (Type-C, Support DP1.4a display output, Power output 5V/3A)

### LCD Specifications

Panel Type	15"
Max. Resolution	1024x768 XGA
Contrast Ratio	800:1
Pixel Pitch (um)	0.297(H) × 0.297(V)
Luminance (cd/m2)	350
Viewing Angle	160°(H) 160°(V)

Panel Type	22"
Max. Resolution	1920x1080 Full HD
Contrast Ratio	1000:1
Pixel Pitch (um)	248.25 (H)×248.25(V)
Luminance (cd/m2)	250
Viewing Angle	170°(H) 160°(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°C
Classification	Power by Class I certified power adapter. No applied part.
Mode of operation	Continuous operation
System input rating	DC 24V, 75W

### 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" -379x303x58 (mm) 21.5" -550.1x341.7x58 mm(mm)
Net Weight	15" - 6.5 kg (w/o power adapter) 21.5" - 9.5 kg (w/o power adapter)
Packing Filler	PE

### Environmental Specifications

Temperature	Operating: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	IP66 front
Noise	Fanless

### Touch Screen

#### P.cap Touch

Type	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	≥3H

Light Transmission	80% ± 5%
Life Time	35M times

# Getting Started

## System Set Up

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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:**

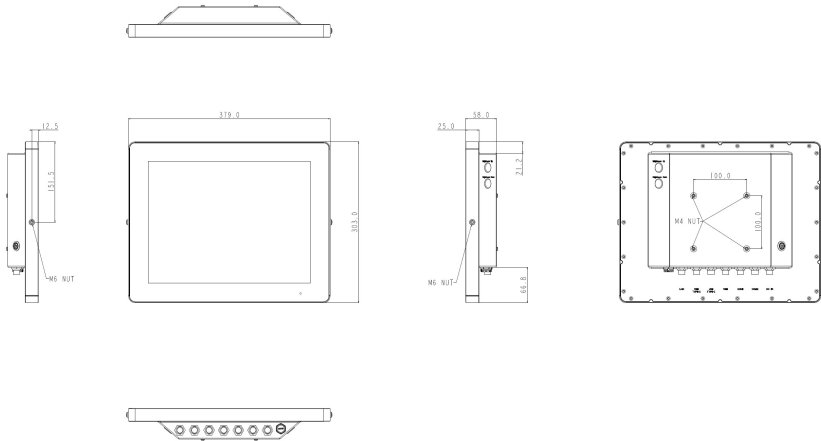
*In order to boot up system from USB-CD/DVD drive, please connect USB-CD/DVD drive, turn on computer power, keep on pressing "F11" key, go into BIOS quick boot menu, select "USB-CD ROM", WAIT FOR 20 SECONDS, then press enter, system OS will boot up from USB-CD/DVD drive directly.*

**Notice:**

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

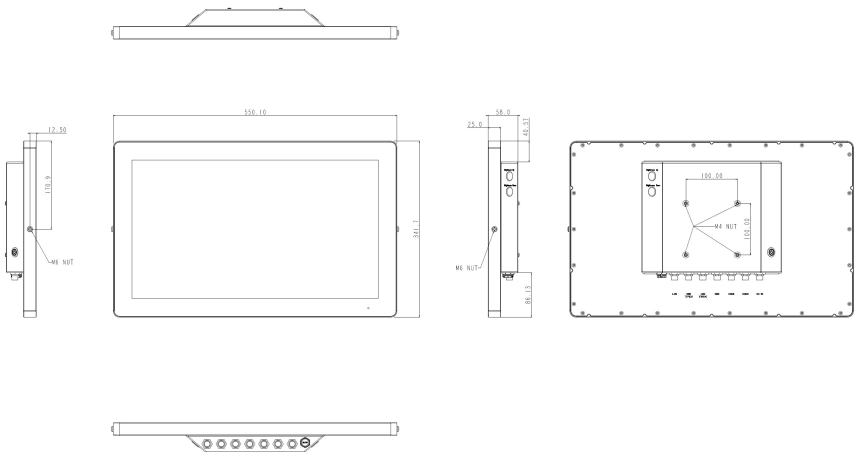
## Dimension WTP-9K66-15

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## Dimension WTP-9K66-22

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# System View

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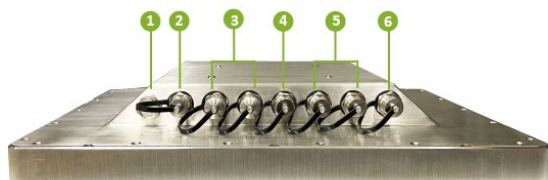
**Front View**



**Back**



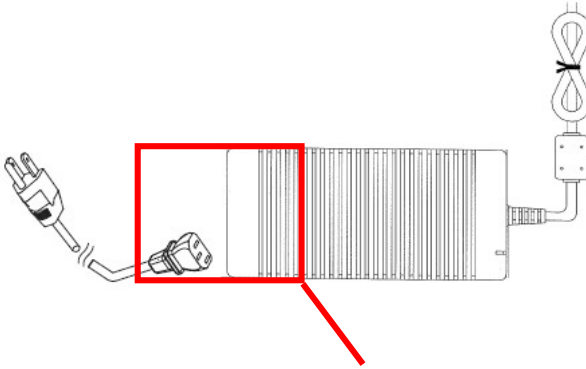
## I/O parts



- 1 Power on/off
- 2 LAN
- 3 USB Type-C
- 4 USB
- 5 COM x 2
- 6 DC-in

## Disconnect Device

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

### **Turn off the system:**

Turning off WTP-9K66 properly is important for system reliability.

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

# BIOS Setup

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## 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

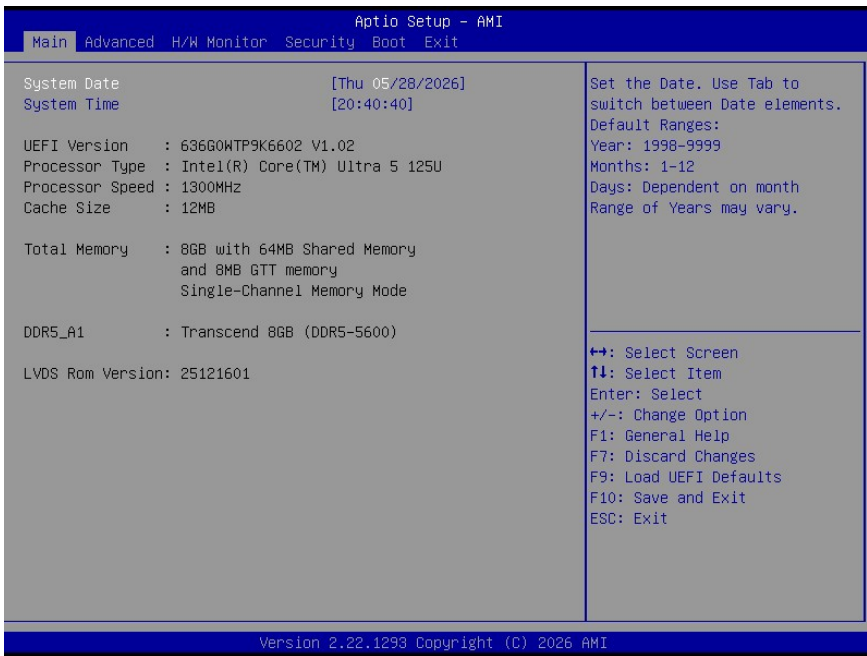
The AMI BIOS provides a Setup utility program for specifying the system configurations and settings. The BIOS ROM of the system stores the Setup utility. When you turn on the computer, the AMI BIOS is immediately activated. Pressing the <Del> key immediately allows you to enter the Setup utility. If 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



### System Date

Set the Date. Use Tab to switch between Date elements.

Default Ranges:

Year: 1998-9999

Months: 1-12

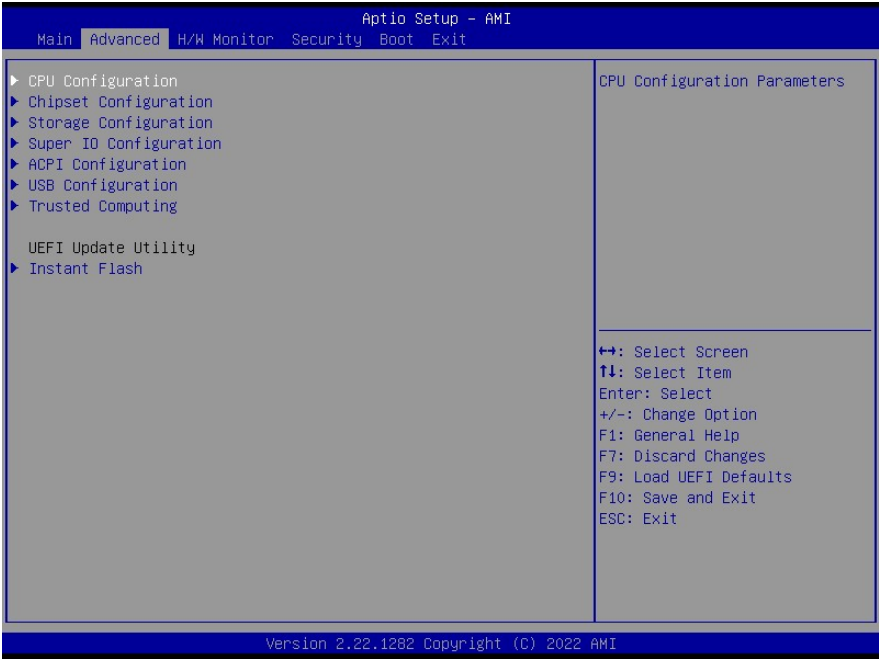
Days: Dependent on month

Range of Years may vary.

### System Time

Set the Time. Use Tab to switch between Time elements.

# Advanced



## CPU Configuration

CPU Configuration parameters

### Active Processor Cores

Select the number of cores to enable in each processor package.

### 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.

### Intel Virtualization Technology

Intel Virtualization Technology allows a platform to run multiple operating systems and applications in independent partitions, so that one computer system can function as multiple virtual systems.

### Intel SpeedStep Technology

Allows more than two frequency ranges to be supported.

### Intel Turbo Boost Technology

Intel Turbo Boost Technology enables the processor to run above its base operating frequency when the operating system requests the highest performance state.

## **CPU Thermal Throttling**

Enable CPU internal thermal control mechanisms to keep the CPU from overheating.

## **Chipset Configuration**

Configure Chipset settings

### **Above 4G Decoding**

Enable/Disable above 4G MemoryMappedIO decoding

This is disabled automatically when Aperture Size is set to 2048MB.

### **VT-d**

VT-d Capability

### **PCIe1 Link Speed**

Configure PCIe Slot Link Speed.

### **Share Memory**

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

### **Render Standby**

Check to enable render standby support.

### **Active LVDS**

Enable: Enable the LVDS

Disable: Disable the LVDS

### **Panel Type Selection**

Select Panel Type

### **Onboard LAN1**

Enable or disable the onboard LAN1 network interface controller.

### **Onboard LAN2**

Enable or disable the onboard LAN2 network interface controller.

### **Onboard HD Audio**

Enable/disable onboard HD audio.

### **Restore on AC/Power Loss**

Select the power state after a power failure. If [Power Off] is selected, the power will remain off when the power recovers. If [Power On] is selected, the system will start to boot up when the power recovers.

## **Storage Configuration**

Configure Storage devices.

### **SATA Controllers(s)**

Enables/disable the SATA controllers.

### **SATA Mode Selection**

AHCI: Supports new features that improve performance.

Intel RST Premium(RAID):

Combine multiple disk drives into a logical unit.

Please press <CTRL - I> to enter RAID ROM during UEFI POST process.

### **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:**

### **M2M\_1/SATA3\_2:**

## **Super IO Configuration**

Configure Super IO Settings.

### **COM1**

Enable or Disable COM1 IO=3F8h; IRQ=4;

### **COM2**

Enable or Disable COM2 IO=2F8h; IRQ=3;

#### **Type Select**

Set COM TYPE.

### **COM3**

Enable or Disable COM3 IO=3E8h; IRQ=7;

#### **Type Select**

Set COM TYPE.

### **COM4**

Enable or Disable COM4 IO=2E8h; IRQ=7;

#### **Type Select**

Set COM TYPE.

### **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.

### **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.

### **USB Power Control**

Always enabled: Enable USB power in S0/S3/S4/S5, Default setting: Enable USB power in S0/S3, disable USB power in S4/S5.

### **M.2 Key\_B USB Function**

Enable/Disable M.2 Key\_B USB Function

## **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

### **SHA256 PCR Bank**

Enable or Disable SHA256 PCR Bank

### **SHA384 PCR Bank**

Enable or Disable SHA384 PCR Bank

### **SM3\_256 PCR Bank**

Enable or Disable SM3\_256 PCR Bank

### **Pending operation**

Schedule an Operation for the Security Device. NOTE: Your Computer will reboot during restart in order to change State of Security Device.

### **Platform Hierarchy**

Enable or Disable Platform Hierarchy

### **Storage Hierarchy**

Enable or Disable Storage Hierarchy

### **Endorsement Hierarchy**

Enable or Disable Endorsement Hierarchy

### **TPM 2.0 UEFI Spec Version**

Select the TCG2 Spec Version Support,  
TCG\_1\_2: the Compatible mode for Win8/Win10,  
TCG\_2: Support new TCG2 protocol and event format for Win10 or later

### **Physical Presence Spec Version**

Select to Tell O.S. to support PPI Spec Version 1.2 or 1.3. Note some HCK tests might not support 1.3.

### **TPM 2.0 InterfaceType**

Select the Communication Interface to TPM 20 Device.

### **Device Select**

TPM 1.2 will restrict support to TPM 1.2 devices, TPM 2.0 will restrict support to TPM 2.0 devices, Auto will support both with the default set to TPM 2.0 devices if not found, TPM 1.2 devices will be enumerated

### **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 file system.

# H/W Monitor

Aptio Setup - AMI

Main Advanced **H/W Monitor** Security Boot Exit

Hardware Health Event Monitoring	Quiet Fan Function Control
CPU Temperature : +37.5 °C	
M/B Temperature : +36.0 °C	
CPU_FAN1 Speed : 5844 RPM	
CHA_FAN1 Speed : N/A	
+3V : +3.344 V	
+3VSB : +3.344 V	
VBAT : +3.024 V	
+5V : +5.136 V	
VDCORE : +1.664 V	
VDCM : +1.248 V	
DC_IN : +19.000 V	
CPU_FAN1 Setting [Full On]	↔: Select Screen
CHA_FAN1 Setting [Full On]	↑↓: Select Item
Case Open Feature [Disabled]	Enter: Select
	+/-: Change Option
	F1: General Help
	F7: Discard Changes
	F9: Load UEFI Defaults
	F10: Save and Exit
	ESC: Exit

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## CPU\_FAN1 Setting

Quiet Fan Function Control

## CHA\_FAN1 Setting

Quiet Fan Function Control

## Case Open Feature

Enable or disable the feature of Case Open.

# 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

Secure Boot configuration

### Secure Boot

Secure Boot feature is Active if Secure Boot is Enabled, Platform Key(PK) is enrolled and the System is in User mode. The mode change requires platform reset

### Secure Boot Mode

Secure Boot mode options: Standard or Custom. In Custom mode, Secure Boot Policy variables can be configured by a

physically present user without full authentication

### **Install default Secure Boot keys**

Please install default secure boot keys if it's the first time you use secure boot.

### **Clear Secure Boot keys**

Force System to Setup Mode - clear all Secure Boot Variables. Change takes effect after reboot

### **Key Management**

Enables expert users to modify Secure Boot Policy variables without full authentication

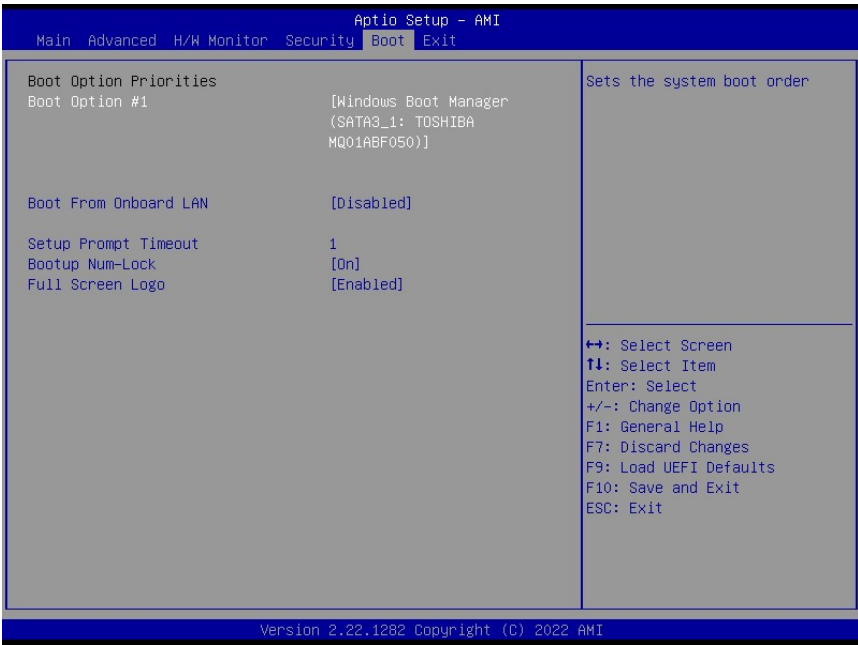
## **Intel(R) Platform Trust Technology**

Enabled/Disabled Intel PTT function,

Enabled: Enable Intel PTT in ME,

Disabled: Disable Intel PTT in ME, Use discrete TPM Module.

## 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

### Boot From Onboard LAN

Boot From Onboard LAN

### Setup Prompt Timeout

Configure the number of seconds to wait for the UEFI setup utility.

### Bootup Num-Lock

Select whether Num Lock should be turned on or off when the  
WTP-9K66 User's manual

system boots up.

**Full Screen Logo**

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

## 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**

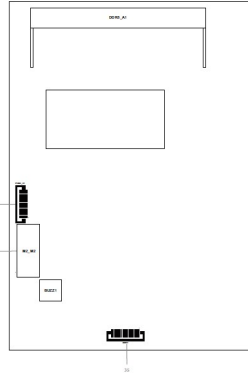
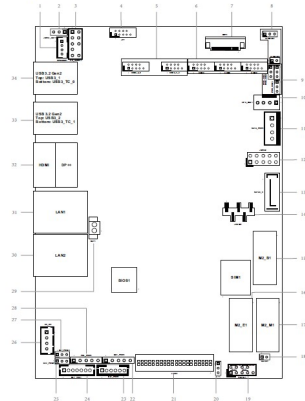
Copy shellx64.efi to the root directory to launch EFI Shell.

# Appendix

## A. Jumper settings and Connectors

Top:

Bottom:



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### Revision History

Date	Description
March 12, 2025	First Release

### 1 : 3W Audio AMP Output Wafer (SPEAKER1)

Pin	Signal Name
1	OUTLTP
2	OUTTRP
3	OUTLTP
4	OUTTRN



### 2 : Digital Input/Output Default Value Setting (JGPIO\_SET1)

- 1-2 : +3V (Default)
- 2-3 : GND



### 3 : Front Panel Audio Header (HD\_AUDIO1)

Pin	Signal Name	Signal Name	Pin
1	MIC1_L	AGND_A	2
3	MIC1_R	NA	4
5	LINE2_P_COUT	LINE2_ID	6
7	AGND_A		8
9	LINE2_L_COUT	LINE2_ID	10



### 4 : JP7

- <Test CI1 (常閉型)>
- JP7: 68 (Short)
- JP7: 24 (Connect to Case)

- <Test CI2 (常閉型)>
- JP7: 24 (Open)
- JP7: 68 (Connect to Case)

- <AT\_ATX\_Mode>
- JP7: 13 (Open) = ATX Mode (Default)
- JP7: 13 (Short) = AT Mode

### <Buzzer Header>

- JP5: Buzzer
- JP7: +5V

Pin	Signal Name	Signal Name	Pin
1	AT_ATX_Mode	CASOPEN#	2
3	GND	CI1	4
5	Buzzer	GND	6
7	+5V	CASOPEN#	8
9	NA	CI2	10



### 5 : USB 2.0 Headers (USB2\_5\_6, USB2\_3\_4)

Pin	Signal Name	Signal Name	Pin
1	USB_PWR	USB_PWR	2
3	USB_D-	USB_D-	4
5	USB_D+	USB_D+	6
7	GND	CASOPEN#	8
9	DUMMY	GND	10



### 6 : COM Port Headers (COM3-5) (RS232/422/485) \*

\*This motherboard supports RS232/422/485 on COM3, 4 and 5 ports. Please refer to the table below for the pin definition. In addition, COM3, 4 and 5 ports can be adjusted in BIOS setup utility > Advanced Screen > Super IO Configuration. You may refer to our user manual for details.

### COM3, 4 and 5 Ports Pin Definition

Pin	RS232	RS422	RS485
1	DCD	TX+	RTN+
2	RXD	TX+	RTN+
3	TXD	RX+	NA
4	CTS	RX+	NA
5	GND	GND	GND
6	DSR	NA	NA
7	RTS	NA	NA
8	CTS	NA	NA
9	PWR	PWR	PWR

### 7 : MIPI Connector (MIP11)

Pin	Signal Name
1	IO0_S0D_CAM_3V
2	IO0_S0D_CAM_3V
3	CAM_VDD_3V
4	IO0_S0D_CAM_3V
5	IO0_S0D_CAM_3V
6	IO0_S0D_CAM_3V
7	IO0_S0D_CAM_3V
8	IO0_S0D_CAM_3V
9	IO0_S0D_CAM_3V
10	IO0_S0D_CAM_3V
11	IO0_S0D_CAM_3V
12	IO0_S0D_CAM_3V
13	IO0_S0D_CAM_3V
14	IO0_S0D_CAM_3V
15	IO0_S0D_CAM_3V
16	IO0_S0D_CAM_3V
17	IO0_S0D_CAM_3V
18	IO0_S0D_CAM_3V
19	IO0_S0D_CAM_3V
20	IO0_S0D_CAM_3V



### 8 : Clear CMOS Headers CLRMOS1

- 1-2 : Normal (Default)
- 2-3 : Clear CMOS

### CLRMOS2

- Open : Normal (Default)
- Short : Auto Clear CMOS (Power Off)



### 9 : COM Port Pin9 PWR Setting Jumpers

- PWR\_COM3 (For COM Port3)
- PWR\_COM4 (For COM Port4)
- PWR\_COM5 (For COM Port5)
- 1-2 : +5V (Default)
- 2-3 : +12V



### 10 : CPU FAN Connector (+12V) (CPU\_FAN1)

Pin	Signal Name
1	GND
2	GND
3	CPU_FAN_SPEED
4	FAN_SPEED_CONTROL



### 11 : SATA Power Output Connector (SATA\_PWR1)

Pin	Signal Name
1	+5V
2	GND
3	GND
4	+12V



### 12 : Digital Input/Output Pin Header (JGPIO2)

Pin	Signal Name	Signal Name	Pin
1	GPP_V22	GPP_V22	2
3	GPP_1_3V	GPP_1_3V	4
5	GPP_2_3V	GPP_2_3V	6
7	GPP_3_3V	GPP_3_3V	8
9	GPP_4_3V	GPP_4_3V	10
11	GPP_5_3V	GPP_5_3V	12
13	GPP_6_3V	GPP_6_3V	14
15	GPP_7_3V	GPP_7_3V	16



### 13 : SATA3 Connectors (SATA3\_0)

Pin	Signal Name
1	GND
2	SATA_0_TX_DP_C
3	SATA_0_TX_DN_C
4	GND
5	SATA_0_RX_DP_C
6	SATA_0_RX_DN_C
7	GND



### 14 : JHDMI1 (For HDMI-MIPI Card)

Pin	Signal Name
1	GND
2	GND
3	GPP_V23
4	GPP_V22
5	GPP_C0



### 15 : M.2 Key-B Socket (M2\_B1)

Pin	Signal Name	Signal Name	Pin
1	GND	NA	25
2	GND	NA	26
3	GND	NA	27
4	GND	NA	28
5	GND	NA	29
6	GND	NA	30
7	GND	NA	31
8	GND	NA	32
9	GND	NA	33
10	GND	NA	34
11	GND	NA	35
12	GND	NA	36
13	GND	NA	37
14	GND	NA	38
15	GND	NA	39
16	GND	NA	40
17	GND	NA	41
18	GND	NA	42
19	GND	NA	43
20	GND	NA	44
21	GND	NA	45
22	GND	NA	46
23	GND	NA	47
24	GND	NA	48
25	GND	NA	49
26	GND	NA	50
27	GND	NA	51
28	GND	NA	52
29	GND	NA	53
30	GND	NA	54
31	GND	NA	55
32	GND	NA	56
33	GND	NA	57
34	GND	NA	58
35	GND	NA	59
36	GND	NA	60
37	GND	NA	61
38	GND	NA	62
39	GND	NA	63
40	GND	NA	64
41	GND	NA	65
42	GND	NA	66
43	GND	NA	67
44	GND	NA	68
45	GND	NA	69
46	GND	NA	70
47	GND	NA	71
48	GND	NA	72
49	GND	NA	73
50	GND	NA	74
51	GND	NA	75
52	GND	NA	76
53	GND	NA	77
54	GND	NA	78
55	GND	NA	79
56	GND	NA	80
57	GND	NA	81
58	GND	NA	82
59	GND	NA	83
60	GND	NA	84
61	GND	NA	85
62	GND	NA	86
63	GND	NA	87
64	GND	NA	88
65	GND	NA	89
66	GND	NA	90
67	GND	NA	91
68	GND	NA	92
69	GND	NA	93
70	GND	NA	94
71	GND	NA	95
72	GND	NA	96
73	GND	NA	97
74	GND	NA	98
75	GND	NA	99
76	GND	NA	100

### 16 : DACC1

Open: no ACC

Short: ACC (Default)

\*Auto clear CMOS when system boot inproperly.

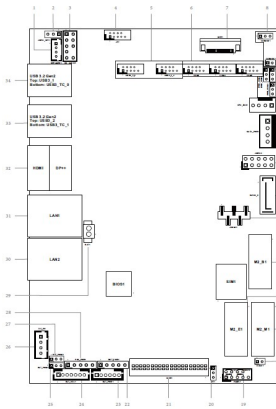


### 17 : System Panel Header (PANEL1)

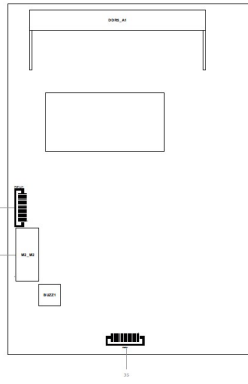
Pin	Signal Name	Signal Name	Pin
1	HOLED+	PLED+	2
3	HOLED-	PLED-	4
5	GND	PWRBTN#	6
7	RESET#	GND	8
9	GND	GND	10



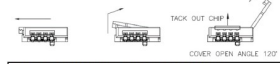
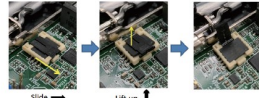
## Top:



## Bottom:



## Installation of ROM Socket



- \* Do not apply force to the actuator cover after it is inserted.
- \* Do not apply force to the actuator cover when it is opening over 120 degree. Otherwise, the actuator cover may be broken.



- \* The yellow dot (Pin1) on the ROM must be installed at pin1 position of the socket (white arrow area).
  - \* Make sure the white dot on the ROM is installed outwards of the socket.
  - \* For further details of how to install ROM, please refer to ASR1 website.
- Warning:** If the installation does not follow as the picture, then it may cause severe damage to chipset & MB.

### 18 : M.2 Key-E Socket (M2\_E1)

Pin	Signal Name	Signal Name	Pin	
1	USB_DP	USB_DP	19	NC
2	USB_DP	USB_DP	20	NC
3	USB_DP	USB_DP	21	NC
4	USB_DP	USB_DP	22	NC
5	USB_DP	USB_DP	23	NC
6	USB_DP	USB_DP	24	NC
7	USB_DP	USB_DP	25	NC
8	USB_DP	USB_DP	26	NC
9	USB_DP	USB_DP	27	NC
10	USB_DP	USB_DP	28	NC
11	USB_DP	USB_DP	29	NC
12	USB_DP	USB_DP	30	NC
13	USB_DP	USB_DP	31	NC
14	USB_DP	USB_DP	32	NC
15	USB_DP	USB_DP	33	NC
16	USB_DP	USB_DP	34	NC
17	USB_DP	USB_DP	35	NC
18	USB_DP	USB_DP	36	NC
19	USB_DP	USB_DP	37	NC
20	USB_DP	USB_DP	38	NC
21	USB_DP	USB_DP	39	NC
22	USB_DP	USB_DP	40	NC
23	USB_DP	USB_DP	41	NC
24	USB_DP	USB_DP	42	NC
25	USB_DP	USB_DP	43	NC
26	USB_DP	USB_DP	44	NC
27	USB_DP	USB_DP	45	NC
28	USB_DP	USB_DP	46	NC
29	USB_DP	USB_DP	47	NC
30	USB_DP	USB_DP	48	NC
31	USB_DP	USB_DP	49	NC
32	USB_DP	USB_DP	50	NC
33	USB_DP	USB_DP	51	NC
34	USB_DP	USB_DP	52	NC
35	USB_DP	USB_DP	53	NC
36	USB_DP	USB_DP	54	NC
37	USB_DP	USB_DP	55	NC
38	USB_DP	USB_DP	56	NC
39	USB_DP	USB_DP	57	NC
40	USB_DP	USB_DP	58	NC
41	USB_DP	USB_DP	59	NC
42	USB_DP	USB_DP	60	NC
43	USB_DP	USB_DP	61	NC
44	USB_DP	USB_DP	62	NC
45	USB_DP	USB_DP	63	NC
46	USB_DP	USB_DP	64	NC
47	USB_DP	USB_DP	65	NC
48	USB_DP	USB_DP	66	NC
49	USB_DP	USB_DP	67	NC
50	USB_DP	USB_DP	68	NC
51	USB_DP	USB_DP	69	NC
52	USB_DP	USB_DP	70	NC
53	USB_DP	USB_DP	71	NC
54	USB_DP	USB_DP	72	NC
55	USB_DP	USB_DP	73	NC
56	USB_DP	USB_DP	74	NC

### M.2 Key-M Sockets

#### 17 : M2\_M1

#### 36 : M2\_M2 (on the back side)

Pin	Signal Name	Signal Name	Pin	
1	USB_DP	USB_DP	19	NC
2	USB_DP	USB_DP	20	NC
3	USB_DP	USB_DP	21	NC
4	USB_DP	USB_DP	22	NC
5	USB_DP	USB_DP	23	NC
6	USB_DP	USB_DP	24	NC
7	USB_DP	USB_DP	25	NC
8	USB_DP	USB_DP	26	NC
9	USB_DP	USB_DP	27	NC
10	USB_DP	USB_DP	28	NC
11	USB_DP	USB_DP	29	NC
12	USB_DP	USB_DP	30	NC
13	USB_DP	USB_DP	31	NC
14	USB_DP	USB_DP	32	NC
15	USB_DP	USB_DP	33	NC
16	USB_DP	USB_DP	34	NC
17	USB_DP	USB_DP	35	NC
18	USB_DP	USB_DP	36	NC
19	USB_DP	USB_DP	37	NC
20	USB_DP	USB_DP	38	NC
21	USB_DP	USB_DP	39	NC
22	USB_DP	USB_DP	40	NC
23	USB_DP	USB_DP	41	NC
24	USB_DP	USB_DP	42	NC
25	USB_DP	USB_DP	43	NC
26	USB_DP	USB_DP	44	NC
27	USB_DP	USB_DP	45	NC
28	USB_DP	USB_DP	46	NC
29	USB_DP	USB_DP	47	NC
30	USB_DP	USB_DP	48	NC
31	USB_DP	USB_DP	49	NC
32	USB_DP	USB_DP	50	NC
33	USB_DP	USB_DP	51	NC
34	USB_DP	USB_DP	52	NC
35	USB_DP	USB_DP	53	NC
36	USB_DP	USB_DP	54	NC
37	USB_DP	USB_DP	55	NC
38	USB_DP	USB_DP	56	NC
39	USB_DP	USB_DP	57	NC
40	USB_DP	USB_DP	58	NC
41	USB_DP	USB_DP	59	NC
42	USB_DP	USB_DP	60	NC
43	USB_DP	USB_DP	61	NC
44	USB_DP	USB_DP	62	NC
45	USB_DP	USB_DP	63	NC
46	USB_DP	USB_DP	64	NC
47	USB_DP	USB_DP	65	NC
48	USB_DP	USB_DP	66	NC
49	USB_DP	USB_DP	67	NC
50	USB_DP	USB_DP	68	NC
51	USB_DP	USB_DP	69	NC
52	USB_DP	USB_DP	70	NC
53	USB_DP	USB_DP	71	NC
54	USB_DP	USB_DP	72	NC
55	USB_DP	USB_DP	73	NC
56	USB_DP	USB_DP	74	NC

### 20 : Heater header (HT1)

Pin	Signal Name
1	Heater_PWR (5V1A)
2	GND
3	NTC (Negative Temperature Coefficient Thermistor)

- The 10k Ohm NTC thermistor is suggested.
- Deep mode is not supported when the preheat function is enabled.

### 21\* : LVDS Panel Connector (LVDS1)

Pin	Signal Name	Signal Name	Pin	
1	LVDS0_VDD	LVDS0_VDD	4	LVDS0_VDD
2	LVDS0_VDD	LVDS0_VDD	5	LVDS0_VDD
3	LVDS0_VDD	LVDS0_VDD	6	LVDS0_VDD
4	LVDS0_VDD	LVDS0_VDD	7	LVDS0_VDD
5	LVDS0_VDD	LVDS0_VDD	8	LVDS0_VDD
6	LVDS0_VDD	LVDS0_VDD	9	LVDS0_VDD
7	LVDS0_VDD	LVDS0_VDD	10	LVDS0_VDD
8	LVDS0_VDD	LVDS0_VDD	11	LVDS0_VDD
9	LVDS0_VDD	LVDS0_VDD	12	LVDS0_VDD
10	LVDS0_VDD	LVDS0_VDD	13	LVDS0_VDD
11	LVDS0_VDD	LVDS0_VDD	14	LVDS0_VDD
12	LVDS0_VDD	LVDS0_VDD	15	LVDS0_VDD
13	LVDS0_VDD	LVDS0_VDD	16	LVDS0_VDD
14	LVDS0_VDD	LVDS0_VDD	17	LVDS0_VDD
15	LVDS0_VDD	LVDS0_VDD	18	LVDS0_VDD
16	LVDS0_VDD	LVDS0_VDD	19	LVDS0_VDD
17	LVDS0_VDD	LVDS0_VDD	20	LVDS0_VDD
18	LVDS0_VDD	LVDS0_VDD	21	LVDS0_VDD
19	LVDS0_VDD	LVDS0_VDD	22	LVDS0_VDD
20	LVDS0_VDD	LVDS0_VDD	23	LVDS0_VDD
21	LVDS0_VDD	LVDS0_VDD	24	LVDS0_VDD
22	LVDS0_VDD	LVDS0_VDD	25	LVDS0_VDD
23	LVDS0_VDD	LVDS0_VDD	26	LVDS0_VDD
24	LVDS0_VDD	LVDS0_VDD	27	LVDS0_VDD
25	LVDS0_VDD	LVDS0_VDD	28	LVDS0_VDD
26	LVDS0_VDD	LVDS0_VDD	29	LVDS0_VDD
27	LVDS0_VDD	LVDS0_VDD	30	LVDS0_VDD
28	LVDS0_VDD	LVDS0_VDD	31	LVDS0_VDD
29	LVDS0_VDD	LVDS0_VDD	32	LVDS0_VDD
30	LVDS0_VDD	LVDS0_VDD	33	LVDS0_VDD
31	LVDS0_VDD	LVDS0_VDD	34	LVDS0_VDD
32	LVDS0_VDD	LVDS0_VDD	35	LVDS0_VDD
33	LVDS0_VDD	LVDS0_VDD	36	LVDS0_VDD
34	LVDS0_VDD	LVDS0_VDD	37	LVDS0_VDD
35	LVDS0_VDD	LVDS0_VDD	38	LVDS0_VDD
36	LVDS0_VDD	LVDS0_VDD	39	LVDS0_VDD
37	LVDS0_VDD	LVDS0_VDD	40	LVDS0_VDD
38	LVDS0_VDD	LVDS0_VDD	41	LVDS0_VDD
39	LVDS0_VDD	LVDS0_VDD	42	LVDS0_VDD
40	LVDS0_VDD	LVDS0_VDD	43	LVDS0_VDD
41	LVDS0_VDD	LVDS0_VDD	44	LVDS0_VDD
42	LVDS0_VDD	LVDS0_VDD	45	LVDS0_VDD
43	LVDS0_VDD	LVDS0_VDD	46	LVDS0_VDD
44	LVDS0_VDD	LVDS0_VDD	47	LVDS0_VDD
45	LVDS0_VDD	LVDS0_VDD	48	LVDS0_VDD
46	LVDS0_VDD	LVDS0_VDD	49	LVDS0_VDD
47	LVDS0_VDD	LVDS0_VDD	50	LVDS0_VDD
48	LVDS0_VDD	LVDS0_VDD	51	LVDS0_VDD
49	LVDS0_VDD	LVDS0_VDD	52	LVDS0_VDD
50	LVDS0_VDD	LVDS0_VDD	53	LVDS0_VDD
51	LVDS0_VDD	LVDS0_VDD	54	LVDS0_VDD
52	LVDS0_VDD	LVDS0_VDD	55	LVDS0_VDD
53	LVDS0_VDD	LVDS0_VDD	56	LVDS0_VDD
54	LVDS0_VDD	LVDS0_VDD	57	LVDS0_VDD
55	LVDS0_VDD	LVDS0_VDD	58	LVDS0_VDD
56	LVDS0_VDD	LVDS0_VDD	59	LVDS0_VDD
57	LVDS0_VDD	LVDS0_VDD	60	LVDS0_VDD
58	LVDS0_VDD	LVDS0_VDD	61	LVDS0_VDD
59	LVDS0_VDD	LVDS0_VDD	62	LVDS0_VDD
60	LVDS0_VDD	LVDS0_VDD	63	LVDS0_VDD
61	LVDS0_VDD	LVDS0_VDD	64	LVDS0_VDD
62	LVDS0_VDD	LVDS0_VDD	65	LVDS0_VDD
63	LVDS0_VDD	LVDS0_VDD	66	LVDS0_VDD
64	LVDS0_VDD	LVDS0_VDD	67	LVDS0_VDD
65	LVDS0_VDD	LVDS0_VDD	68	LVDS0_VDD
66	LVDS0_VDD	LVDS0_VDD	69	LVDS0_VDD
67	LVDS0_VDD	LVDS0_VDD	70	LVDS0_VDD
68	LVDS0_VDD	LVDS0_VDD	71	LVDS0_VDD
69	LVDS0_VDD	LVDS0_VDD	72	LVDS0_VDD
70	LVDS0_VDD	LVDS0_VDD	73	LVDS0_VDD
71	LVDS0_VDD	LVDS0_VDD	74	LVDS0_VDD
72	LVDS0_VDD	LVDS0_VDD	75	LVDS0_VDD
73	LVDS0_VDD	LVDS0_VDD	76	LVDS0_VDD
74	LVDS0_VDD	LVDS0_VDD	77	LVDS0_VDD
75	LVDS0_VDD	LVDS0_VDD	78	LVDS0_VDD
76	LVDS0_VDD	LVDS0_VDD	79	LVDS0_VDD
77	LVDS0_VDD	LVDS0_VDD	80	LVDS0_VDD
78	LVDS0_VDD	LVDS0_VDD	81	LVDS0_VDD
79	LVDS0_VDD	LVDS0_VDD	82	LVDS0_VDD
80	LVDS0_VDD	LVDS0_VDD	83	LVDS0_VDD
81	LVDS0_VDD	LVDS0_VDD	84	LVDS0_VDD
82	LVDS0_VDD	LVDS0_VDD	85	LVDS0_VDD
83	LVDS0_VDD	LVDS0_VDD	86	LVDS0_VDD
84	LVDS0_VDD	LVDS0_VDD	87	LVDS0_VDD
85	LVDS0_VDD	LVDS0_VDD	88	LVDS0_VDD
86	LVDS0_VDD	LVDS0_VDD	89	LVDS0_VDD
87	LVDS0_VDD	LVDS0_VDD	90	LVDS0_VDD
88	LVDS0_VDD	LVDS0_VDD	91	LVDS0_VDD
89	LVDS0_VDD	LVDS0_VDD	92	LVDS0_VDD
90	LVDS0_VDD	LVDS0_VDD	93	LVDS0_VDD
91	LVDS0_VDD	LVDS0_VDD	94	LVDS0_VDD
92	LVDS0_VDD	LVDS0_VDD	95	LVDS0_VDD
93	LVDS0_VDD	LVDS0_VDD	96	LVDS0_VDD
94	LVDS0_VDD	LVDS0_VDD	97	LVDS0_VDD
95	LVDS0_VDD	LVDS0_VDD	98	LVDS0_VDD
96	LVDS0_VDD	LVDS0_VDD	99	LVDS0_VDD
97	LVDS0_VDD	LVDS0_VDD	100	LVDS0_VDD

\* eDP by pass mode pin definition (switch by BIOS)

Pin	Signal Name	Signal Name	Pin	
1	LVDS_VCC	LVDS_VCC	2	LVDS_VCC
2	LVDS_VCC	LVDS_VCC	3	LVDS_VCC
3	LVDS_VCC	LVDS_VCC	4	LVDS_VCC
4	LVDS_VCC	LVDS_VCC	5	LVDS_VCC
5	LVDS_VCC	LVDS_VCC	6	LVDS_VCC
6	LVDS_VCC	LVDS_VCC	7	LVDS_VCC
7	LVDS_VCC	LVDS_VCC	8	LVDS_VCC
8	LVDS_VCC	LVDS_VCC	9	LVDS_VCC
9	LVDS_VCC	LVDS_VCC	10	LVDS_VCC
10	LVDS_VCC	LVDS_VCC	11	LVDS_VCC
11	LVDS_VCC	LVDS_VCC	12	LVDS_VCC
12	LVDS_VCC	LVDS_VCC	13	LVDS_VCC
13	LVDS_VCC	LVDS_VCC	14	LVDS_VCC
14	LVDS_VCC	LVDS_VCC	15	LVDS_VCC
15	LVDS_VCC	LVDS_VCC	16	LVDS_VCC
16	LVDS_VCC	LVDS_VCC	17	LVDS_VCC
17	LVDS_VCC	LVDS_VCC	18	LVDS_VCC
18	LVDS_VCC	LVDS_VCC	19	LVDS_VCC
19	LVDS_VCC	LVDS_VCC	20	LVDS_VCC
20	LVDS_VCC	LVDS_VCC	21	LVDS_VCC
21	LVDS_VCC	LVDS_VCC	22	LVDS_VCC
22	LVDS_VCC	LVDS_VCC	23	LVDS_VCC
23	LVDS_VCC	LVDS_VCC	24	LVDS_VCC
24	LVDS_VCC	LVDS_VCC	25	LVDS_VCC
25	LVDS_VCC	LVDS_VCC	26	LVDS_VCC
26	LVDS_VCC	LVDS_VCC	27	LVDS_VCC
27	LVDS_VCC	LVDS_VCC	28	LVDS_VCC
28	LVDS_VCC	LVDS_VCC	29	LVDS_VCC
29	LVDS_VCC	LVDS_VCC	30	LVDS_VCC
30	LVDS_VCC	LVDS_VCC	31	LVDS_VCC
31	LVDS_VCC	LVDS_VCC	32	LVDS_VCC
32	LVDS_VCC	LVDS_VCC	33	LVDS_VCC
33	LVDS_VCC	LVDS_VCC	34	LVDS_VCC
34	LVDS_VCC	LVDS_VCC	35	LVDS_VCC
35	LVDS_VCC	LVDS_VCC	36	LVDS_VCC
36	LVDS_VCC	LVDS_VCC	37	LVDS_VCC
37	LVDS_VCC	LVDS_VCC	38	LVDS_VCC
38	LVDS_VCC	LVDS_VCC		