WTP-9C66 Series

User's Manual

Version V 1.0

Copyright © 2016, ALL RIGHTS RESERVED.

All other brand names are registered trademarks of their respective owner

The information contained in this document is subject to change without any notices.

Acknowledgments

Greeting & Setup

Thank you for purchasing the WTP-9C66 Panel PC. We wish that this unit will be durable and reliable in providing your needs. Please follow the instructions below to ensure the unit continues to have high performance

Unpacking

After opening the carton, there will be a 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 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 Monitor display 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 open frame 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 Monitor display 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. Do not overload the AC outlets or extension cords. Electrical shocks or fires may occur from overloading.
- 5. Do not touch the power source during a thunderstorm.

- 6. If your hands are wet, do not touch the plug.
- 7. 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.
- 8. If the unit is not going to be in use for an extended period of time, remember to disconnect the unit.
- 9. Connect the unit to a power source with the same numerical value as spec. label 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 Monitor display 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 Monitor display unit in the presence of high moisture areas.
- 5. Do not install the Monitor display 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 Monitor display 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. Use only a dry soft cloth or clean room wiper when cleaning the LCD panel or touch screen surface. Use a soft cloth moistened with mild detergent to clean the display housing.
- 4. Remember to avoid having liquids seep into the internal components.

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 Monitor display 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. If any of the following situations occur turn the power source off and unplug the unit. Then contact a qualified service technician
 - i. A liquid was spilled on the unit or objects have fallen into the unit.
 - ii. The unit is soaked with liquids.
 - iii. The unit is dropped or damaged.

- iv. If smoke or strange odor is flowing out of the open frame unit.
- v. If the power cord or plug is damaged.
- vi. When the functions of the unit are dysfunctional.
- 4. When part replacement is needed. Make sure service technician uses 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.

Battery Installation

Follow below instructions and notice the caution for replacing and disposing of the RTC Lithium battery CR2032 for safety consideration.

CAUTION:

There is danger of explosion, if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instruction.

The specification is subject to change without notice.

Version Change History

Date	Version	Description	Remark
2016/12/23	V1.0	First release	lvy

How to Use This Manual
System Overview2
Table Stand Assemble Instruction10
Wall Mount Stand Assemble Instruction12
System View14
Setting up the System
Installing System Software
Installing the Drivers
BIOS Setup Information18
Appendix26
A. Jumper settings and Connectors26
Jumper and Connector Definition Block 26
1.1 Connector Definition31
B. Touch Lock AP User's Manual57

How to Use This Manual

This manual is written for the system integrator, PC technician and knowledgeable PC end user. It describes how to configure your WTP-9C66 Panel PC to meet various operating requirements. The user's manual is divided into three chapters, with each chapter addressing a basic concept and operation of the server board.

Chapter 1: System Overview - presents what you have inside the box and gives you an overview of the product specifications and basic system architecture for the WTP-9C66 Panel PC.

Chapter 2: System Installation - describes how to set up the system.

Chapter 3: BIOS Setup Information - specifies the meaning of each setup parameter, how to get advanced BIOS performance and update to a new BIOS. Additionally, the POST checkpoint list will give you a guide for troubleshooting.

The contents of this manual are subject to change without prior notice. These changes will be incorporated in new editions of this manual.

Touch Chemical Resistance

Chemical Resistance

The active area of the touchscreen is resistant to the following chemicals when exposed for a period of one hour at a temperature of 70°F (21°C):

- Industrial Chemicals: Acetone, Methylene chloride, Methyl ethyl ketone, Isopropyl alcohol, Hexane, Turpentine, Mineral spirits, Unleaded Gasoline, Diesel Fuel, Motor Oil, Transmission Fluid, Antifreeze.
- Food Service Chemicals: Ammonia based glass cleaner, Laundry Detergents, Cleaners (Fantastic, Formula 409, Joy, etc.), Vinegar, Coffee, Tea, Grease, Cooking Oil, Salt.

System Overview

WTP-9C66- 15

System

CPU FCBGA1168 5th generation Intel® Core i7/i5 processor (15W max.)

Chipset SoC

VGA Intel® integrated HD Graphics 5500 by CPU

LAN Intel i210AT Giga LAN x 2

Memory Two 1600 MHz DDR3L SODIMM socket support dual Channel, non-ECC, up to 16GB

I/O EC

Serial ATA SATA 3, 600 MB/s transfer rate x 2 Serial port RS232,422,485 x 1 /RS232 x 1

USB Internal USB 2.0(5V) pin head x 4, 2 reserved for Mni-PCIE

WDT Generates system reset; 256 segments, 0, 1, 2...255 sec/min.

BIOS

Brand: AMI

Flash ROM size: 64M bit

Support RTC wakeup / Wake on LAN / Power on after power failure / PnP/ACPI/RTC

Display

Brand	Tianma
Resolution (pixel)	1024x768 XGA
Active Area (mm)	304.128 (W) x 228.096 (V)
Outline Dimensions (mm)	326.5 (H) ×253.5 (V) ×11.8
Pixel Pitch (mm)	0.297
Mode	TN
Number of Colors	16.7M
View Angle (H/V)	160/160
Brightness (cd/m2)	300nits
Contrast Ratio	600:1
Response Time (ms)	8 ms (Type.)
(at25°C)	
Backlight	LED
Weight (g)	1000
life time <hrs></hrs>	30000hrs

Cautions:

Continuous displaying fixed pattern may induce image sticking. It's recommended to use screen saver or moving content periodically if fixed pattern is displayed on the screen.

Touch Screen

	ELO
Туре	5 wire RES
Glove	Any type glove
Input mada	Point: Finger or touch pen
Input mode	Drag: Finger
Interface	USB
Light Transmission	80±5%
Hardness	4H
Glass thickness	2.4mm
Linearity	<i>X≤1.5%, Y≤1.5%</i>
Active area	308.11x232.09mm
Resolution	4096x4096
Lifetime	35 million activations

Storage

2.5" SATA drive bay x 1

Expansion slots

Mini-PCIe x2

External water/dust resistant I/O (rear side)

USB 1 x M12 8pin for USB 1/2

1 x M12 8pin for USB 3/4

COM 1 x M12 8pin for COM 1/RS-232

1 x M12 8pin for COM 2/RS-232/422/485

RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

LAN 1 x M12 8pin for LAN 1

Power 1 x M12 5pin DC power connector

Power

Power DC-In connector x 1

Power Input DC7V~32V

LV6 Power Adapter AC 90 ~ 264V / 47 ~ 63 Hz / DC output 12V

Power Consumption 45.7W (full loading) 4W (S3)

Power ON/Off buttons at rear side

Mechanical & Environmental

Material construction SUS304 stainless steel enclosure, chassis type

Fanless cooling

Water and dust protection IP66 / NEMA4X

Operation Temperature 12V DC Input $0\sim40\,$ °C (IEC60068-2-56, air flow cooling)

32V DC Input $0\sim30$ $^{\circ}$ (IEC60068-2-56, air flow cooling)

Storage Temperature $-20\sim60~C$

Operation Relative Humidity 10%~90%, non-condensing Storage Relative Humidity 10%~90%, non-condensing

Dimensions 395x309.5x58mm

Net Weight 8.4KG Gross Weight 12.4kg

Mounting VESA (100x100 mmxmm), side mount (M6*2)

Supported OS

Win 7, Win 7 Pro, Win8.1, Win10

Options

- 1. Wireless or Wireless and BT kit (2 ant)
- 2. Waterproof COM cable, cable length is 2 meters
- 3. Waterproof USB cable, cable length is 2 meters
- 4. Waterproof LAN cable, cable length is 2 meters
- 5. wall mount / table mount bracket (option)
- 6. SSD

Customization (by DRF)

- 1. sunlight readable optical bonding
- 2. full flat PCT touch screen with touch lock AP
- 3. 1000 nit high brightness LCD
- 4. LCD Auto dimming
- 5. LCD Super dimming (Low brightness)
- 6. USB 3.0
- 7. 5W/2w speaker
- 8. Intel Core i7-5500U (option) turbo mode disable
- 9. 2 External LAN
- 10. Second HD
- 11. IP67
- 12. Robust Antenna
- 13. LCD 450nits

Packing list

- 1. WTP-9C66-15
- 2. DVD-Title for driver and manual
- 3. Power adapter
- 4. Power cord

Regulatory

FCC, CE (EMC), VCCI class B

Shock/Vibration/Drop

	Shock	Vibration	Drop	
	Operating:	Operating:	According to ISTA Pr	oject 2A to
	Pulse shape : Half-sine	$5 \sim 500$ Hz , Acceleration : 1.0G	determine a drop heig	ght in the
	waveform	Sweep time : 15 minutes	following chart.	
	Impact acceleration: 15g	Number of cycle : 1 cycle for	(test surface: concret	te, with
	Pulse duration : 11 ms	each axis	packing)6 surfaces	
General	Number of shocks : 18	Vibration axes : X, Y and Z	Package-product	Drop
	shocks (3 shock for each \pm		Weight	Height
	axis)		21-40.99 lb	32 in.
	Orientation : \pm X, \pm Y and \pm		(9.53-18.59kg)	(0.813 m)
	Z axes			

Configurations:

1. WTP-9C66-15, Core i5-5200U CPU, 2.20GHz, 4G RAM, 500G HDD, 4 USB, 2 COM, 1 LAN

WTP-9C66-19

System

CPU FCBGA1168 5th generation Intel® Core i7/i5 processor (15W max.)

Chipset SoC

VGA Intel® integrated HD Graphics 5500 by CPU

LAN Intel i210AT Giga LAN x 2

Memory Two 1600 MHz DDR3L SODIMM socket support dual Channel, non-ECC, up to 16GB

I/O EC

Serial ATA SATA 3, 600 MB/s transfer rate x 2 Serial port RS232,422,485 x 1 /RS232 x 1

USB Internal USB 2.0(5V) pin head x 4, 2 reserved for Mni-PCIE

WDT Generates system reset; 256 segments, 0, 1, 2...255 sec/min.

BIOS

Brand: AMI

Flash ROM size: 64M bit

Support RTC wakeup / Wake on LAN / Power on after power failure / PnP/ACPI/RTC

Display

Brand	AUO
Resolution (pixel)	SXGA 1280(x3) x 1024
Active Area (mm)	376.32 (H) x 301.06(V)
Number of Colors	16.7M
View Angle (H/V)	170 / 160
Brightness (cd/m2)	350
Contrast Ratio	1000:1
Response Time (ms) (at	5
25°C)	
Backlight	LED
Weight (g)	1670
life time <hrs></hrs>	50000

Touch Screen

	ELO
Туре	5 wire RES
Glove	Any type glove
Innut made	Point: Finger or touch pen
Input mode	Drag: Finger
Interface	USB

Light Transmission	80±5%
Hardness	4H
Glass thickness	2.4mm
Linearity	<i>X</i> ≤1.5%, <i>Y</i> ≤1.5%
Active area	308.11x232.09mm
Resolution	4096x4096
Lifetime	49 million activations

Storage

2.5" SATA drive bay x 1

Expansion slots

Mini-PCIe x2

Expansion slots

Mini-PCIe X 2

External water/dust resistant I/O (rear side)

USB $1 \times M12$ 8pin for USB 1/2

1 x M12 8pin for USB 3/4

COM 1 x M12 8pin for COM 1/RS-232

1 x M12 8pin for COM 2/RS-232

RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

LAN 1 x M12 8pin for LAN 1

Power 1 x M12 5pin DC power connector

Power

Power DC-In connector x 1

Power Input DC7V~32V

Power Adapter AC 90 \sim 264V / 47 \sim 63 Hz / DC output 12V

Power ON/Off buttons at rear side

Power consumption 67.5w (full loading) 2.3w (S3)

Mechanical & Environmental

Material construction SUS304 stainless steel enclosure, chassis type

Fanless cooling

Water and dust protection IP66 / NEMA4X

Operation Temperature 12V DC Input $0 \sim 35 \, C$ (IEC60068-2-56, air flow cooling)

32V DC Input $0\sim30$ $^{\circ}$ (IEC60068-2-56, air flow cooling)

Storage Temperature $-20\sim60~C$

Operation Relative Humidity 10%~90%, non-condensing

Storage Relative Humidity 10%~90%, non-condensing

Dimensions 458x386x64

Net Weight 11.5Kg
Gross Weight 15Kg

Mounting VESA (100x100 mmxmm) side mount (M6*2)

Supported OS

Win 7, Win 7 Pro, Win8.1, Win 10

Options

- 1. Wireless or Wireless and BT kit (2 ant)
- 2. Waterproof COM cable, cable length is 2 meters
- 3. Waterproof USB cable, cable length is 2 meters
- 4. Waterproof LAN cable, cable length is 2 meters
- 5. wall mount / table mount bracket (option)
- 6. SSD

Customization (by DRF)

- 1. sunlight readable optical bonding
- 2. anti UV and 7H coating
- 3. full flat PCT touch screen with touch lock AP
- 4. 1000 nit high brightness LCD
- 5. LCD Auto dimming
- 6. LCD Super dimming (low brightness)
- 7. USB3.0
- 8. 5W/2W Speaker
- 9. Intel Core i7-5500U (option) turbo mode disable
- 10.2 external LAN
- 11. Second HD
- 12. IP67
- 13. Robust Antenna

Packing list

- 1. WTP-9C66-19
- 2. DVD -Title for driver and manual
- 3. Power adapter
- 4. Power cord

Regulatory

FCC-B, CE (EMC), VCCI class B

Shock/Vibration/Drop

|--|

	Operating:	Operating:	According to ISTA Pro	ject 2A to
	Pulse shape : Half-sine	5 ~ 500Hz , Acceleration : 1.0G	determine a drop heigh	nt in the
	waveform	Sweep time : 15 minutes	following chart.	
	Impact acceleration : 15g	Number of cycle : 1 cycle for	(test surface: concrete,	, with
	Pulse duration : 11 ms	each axis	packing)6 surfaces	
General	Number of shocks : 18	Vibration axes : X, Y and Z	Package-product	Drop Height
	shocks (3 shock for each \pm		Weight	
	axis)		21-40.99 lb	32 in. (0.813
	Orientation : \pm X, \pm Y and \pm		(9.53-18.59kg)	m)
	Z axes			

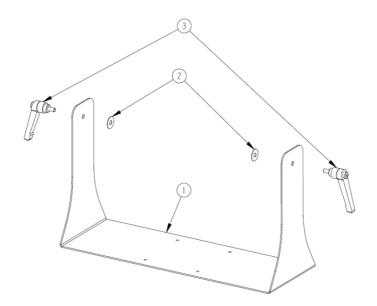
Configurations:

WTP-9C66-19, Core i5-5200U CPU,2.20GHz, 4G RAM, 500G HDD, 4 USB, 2 COM, 1 LAN

Table Stand Assemble Instruction

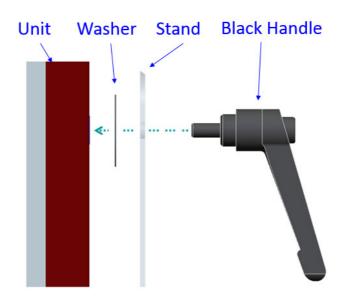
Step 1. Please check out the following parts before assemble.

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

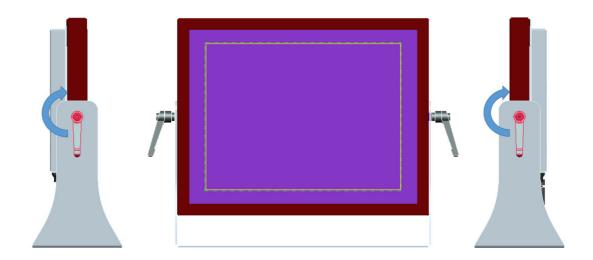


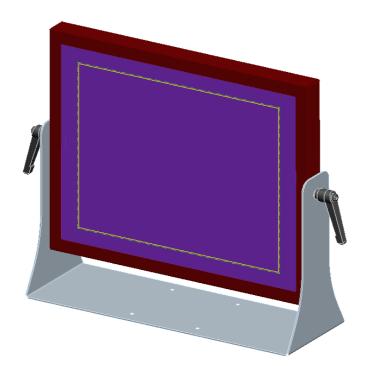
Step 2. Please follow the picture diagrams to assemble.

Explode View



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

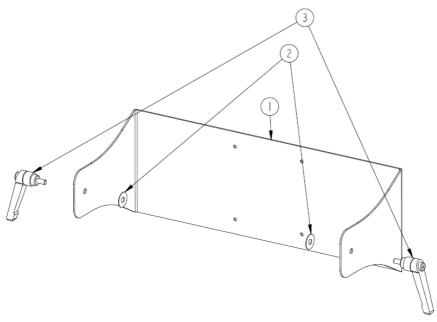




Wall Mount Stand Assemble Instruction

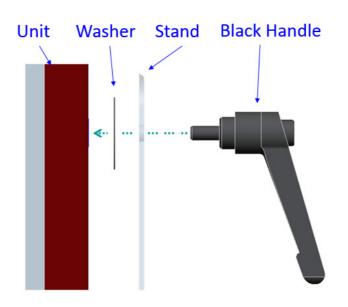
Step 1. Please check out the following parts before assemble.

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

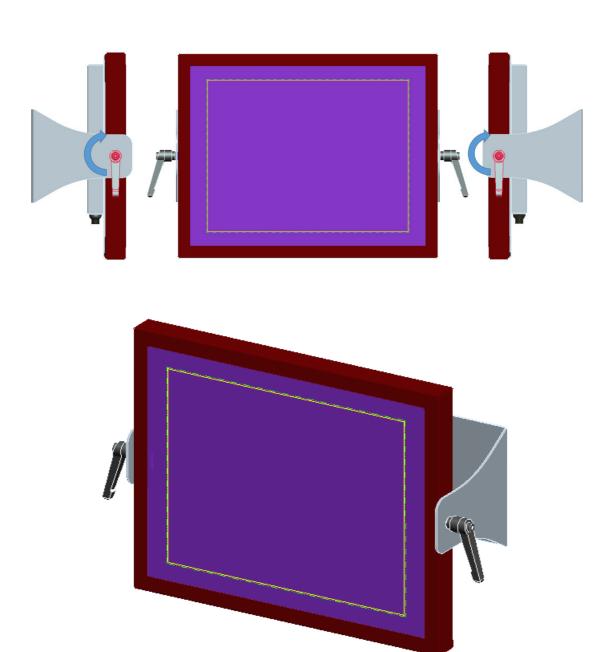


Step 2. Please follow the picture diagrams to assemble.

Explode View

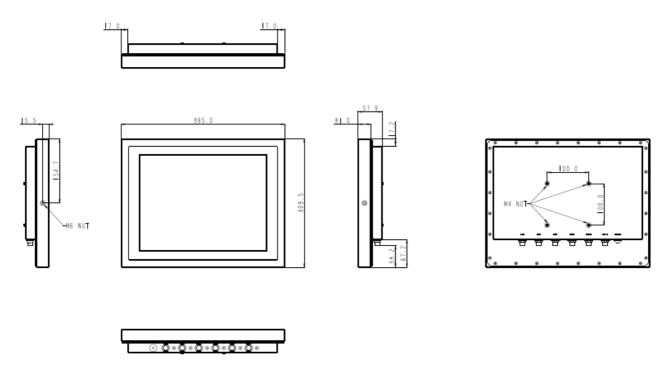


Step 3. Please tighten the black handle in a clockwise direction.

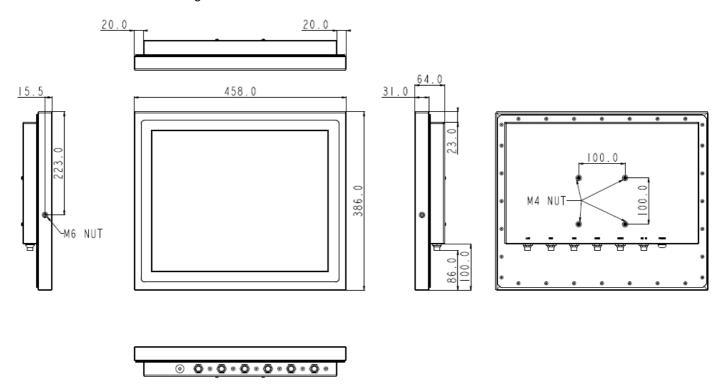


System View

WTP-9C66-15 Outline Drawing



WTP-9C66-19 Outline Drawing



Setting up the System

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

CAUTION: Make sure that power to the system and each of the devices to be connected is switched OFF before plugging in the connectors.

- 1. Make any required external connections such as the keyboard, and mouse.
- 2. Plug the appropriate end of the power cord into the power connector of the system. Then plug the other end of the power cord to an electrical outlet.
- 3. Press the power switch of the system to turn on the system's power.
- 4. If necessary, run the BIOS SETUP program to configure the system (see Chapter 3).
- 5. Install the software drivers if necessary.

Installing System Software

Recent releases of operating systems from major vendors include setup programs, which load automatically and guide you through hard disk preparation and operating system installation. The guidelines below will help you determine the steps necessary to install your operating system on the Panel PC hard drive.

NOTE: Some distributors and system integrators may have already pre-installed system software prior to shipment of your Panel PC.

Installing software requires an installed HDD. Software can be loaded in the WTP-9C66 Panel PC using any of below methods:

Method 1: Use the Ethernet

You can use the Ethernet port to download software from the net to the HDD that has been pre-installed in WTP-9C66 Panel PC

Method 2: Use the COM Port

By connecting another PC to the WTP-9C66 Panel PC with an appropriate cable, you can use transmission software to transmit Operation System Software to the HDD that has been pre-installed in the WTP-9C66 Panel PC.

Method 3: Use a External CD-ROM

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

Then you can use the external CD-ROM to transmit the software to the HDD that has been pre-installed in the WTP-9C66 Panel PC

Installing the Drivers

After installing your system software, you will be able to set up the LAN, VGA, Audio and USB functions. All drivers are stored in a CD disc, which can be found in your accessory pack.

The various drivers and utilities in the disc have their own text files that help users install the drivers and understand their functions.

Follow the sequence below to install the drivers:

- Step 1 Install Intel® INF Driver
- Step 2 Install Intel® VGA Driver
- Step 3 Install Intel® LAN Driver
- Step 4 Install Audio Driver

Step 1 - Install Intel® INF Driver

- 1. Open fie of chipset
- 2. Click on the setup.exe
- 3. Follow the instructions that the window shows
- 4. The system will help you install the driver automatically
- 5. Reboot system

Step 2 -Install Intel® VGA Driver

- 1. Open fie of VGA
- 2. Select the OS folder your system is
- 3. Click on the .exe file located in the OS folder
- 4. Follow the instructions that the window shows
- 5. The system will help you install the driver automatically
- 6. Reboot system

Step 3 - Install Intel® LAN Driver

- 1. Open fie of LAN
- 2. Click on the setup.exe
- 3. Follow the instructions that the window shows
- 4. The system will help you install the driver automatically
- 5. Reboot system

Step 4 - Install Audio Driver

- 1. Open fie of LAN
- 2. Click on the setup.exe
- 3. Follow the instructions that the window shows
- 4. The system will help you install the driver automatically
- 5. Reboot system

BIOS Setup Information

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 key immediately allows you to enter the Setup utility. If you are a little bit late pressing the 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:

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 guit.

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, Memory information, and Battery information

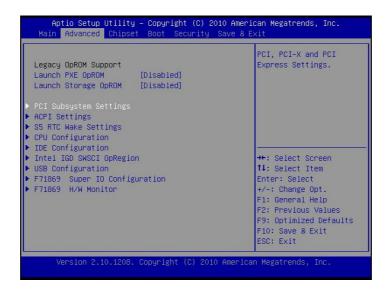
System Date

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



Launch OpROM Support

Launch PXE OpROM

Enables or disables Boot Option for Legacy Network Devices.

Launch Storage OpROM

Enables or disables Boot Option for Legacy Mass Storage Devices with Option ROM.

PCI Subsystem Settings

PCI ROM Priority

In Case of multiple Option ROMs (Legacy and EFI Compatible), specifies what PCI Option ROM to launch.

PCI Latency Timer

Value to be programmed into PCI Latency Timer Register.

VGA Palette Snoop

Enables or disables VGA Palette Registers Snooping.

PERR# Generation

Enables or Disables PCI Device to Generate PERR#.

SERR# Generation

Enables or Disables PCI Device to Generate SERR#.

Relaxed Ordering

Enables or Disables PCI Express Device Relaxed Ordering.

Extended Tag

If ENABLED allows Device to use 8-bit Tag field as a requester.

No Snoop

Enables or Disables PCI Express Device No Snoop option.

Maximum Payload

Set Maximum Payload of PCI Express Device or allow System BIOS to select the value

Maximum Read Request

Set Maximum Read Request Size of PCI Express Device or allow System BIOS to select the value.

ASPM Support

Set the ASPM Level: Force L0 – Force all links to L0 State : AUTO – BIOS auto configure : DISABLE – Disables ASPM.

Extended Synch

If ENABLED allows generation of Extended Synchronization patterns.

ACPI Settings

Enables ACPI Auto Conf

Enables or Disables BIOS ACPI Auto Configuration.

Enable Hibernation

Enables or Disables System ability to Hibernate (OS/S4 Sleep State). This option may be not effective with some OS.

ACPI Sleep State

Select the highest ACPI sleep state the system will enter, when the SUSPEND button is pressed.

S5 RTC Wake Settings

Wake System with Fixed Time

Enables or disables system wake on alarm event. When enabled, the system will wake on the time specified.

Wake system with Dynamic Time

Enables or disables system wake on alarm event. When enabled, the system will wake on the current time+Increase minute(s).

CPU Configuration

Hyper-Threading

Enabled for Windows XP and Linux (OS optimized for Hyper-Threading Technology) and Disabled for other OS (OS optimized for Hyper-Threading Technology)

Core-Multi Processing

Enable or Disable Core-Multi Processing mode.

Execute Disable Bit

XD can prevent certain classes of malicious buffer overflow attacks when combined with a supporting OS (Windows Server 2003 SP1, Windows XP SP2, SuSE Linux 9.2, RedHat Enterprise 3 Update 3.)

Limit CPUID Maximum

Disabled for Windows XP.

IDE Configuration

ATA or IDE Configuration

Select ATA or IDE configuration.

Configure SATA AS

Select a configuration for SATA controller.

HDD Acoustic Power Ma

Option to enable or disable HDD Acoustic Power Management.

DiPM

Option to enable or disable DiPM

Intel IGD SWSCI OpRegion

DVMT Mode Select

Selects DVMT Mode used by Internal Graphics Device.

DVMT/FIXED Memory

Selects DVMT/FIXED Mode Memory size used by Internal Graphics Device.

IGD - Boot Type

Select the Video Device which will be activated during POST. This has no effect if external graphics present.

LCD Panel Type

Select LCD panel used by Internal Graphics Device by selecting the appropriate setup item.

Panel Scaling

Select the LCD panel scaling option used by the Internal Graphics Device.

GMCH BLC Control

Back Light Control Setting

BIA Control

Spread Spectrum clock

>>Hardware: Spread is controlled by chip; >>Software: Spread is controlled by BIOS.

TV1 Standard

TV2 Standard

Active LFP

Select the Active LFP Configuration.

No LVDS:VBIOS does not enable LVDS.

INT-LVDS:VBIOS enables LVDS driver by Integrated encoder.

SDV0 LVDS:VBIOS enables LVDS driver by SDV0.

USB Configuration

Legacy USB Support

Allows USB devices to be used in MS-DOS.

EHCI Hand-off

This is a workaround for 0Ses without EHCI hand-off support. The EHCI ownership change should be claimed by EHCI driver.

USB transfer time-out

The time-out value for Control, Bulk, and Interrupt transfers.

Device reset time-out

USB mass storage device Start Unit command time-out.

Device power-up delay

Maximum time the device will take before it properly reports itself to the HOST Controller.

'Auto' uses default value: for a Root port it is 100 ms, for a Hub port the delay is taken from Hub descriptor.

F71869 Super IO Configuration

Serial Port 0 Configuration

Set Parameters of Serial Port 0 (COM A).

Serial Port 1 Configuration

Set Parameters of Serial Port 1 (COM B).

F71869 H/W Monitor

Monitor hardware status

Second Super IO Configuration

Serial Port 1 Configuration

Set Parameters of Serial Port 1 (COM C).

Serial Port 2 Configuration

Set Parameters of Serial Port 2 (COM D).

Serial Port 3 Configuration

Set Parameters of Serial Port 3 (COM E).

Serial Port 4 Configuration

Set Parameters of Serial Port 4 (COM F).

Serial Port Console Redirection

Serial Port Console Redirection.

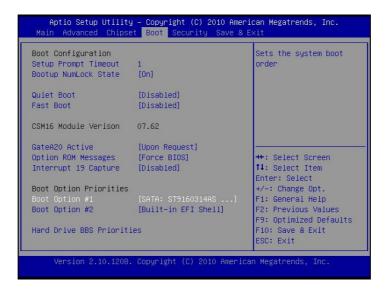
Chipset



Host Bridge/South Bridge

This screen provides information on Host Bridge/South Bridge parameters.

Boot



Setup Prompt Timeout

Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.

Bootup Numlock State

Selects the keyboard NumLock state.

Quiet Boot

Allows you to determine whether to display the AMI Logo at system startup. **Disabled** displays normal POST message.

Fast Boot

Enables or disables the quick boot function to speed up the system boot-up process to shorten the waiting time for entering the operating system and to deliver greater efficiency for daily use.

GateA20 Active

This option is useful when any RT code is executed above 1MB.

Upon Request GA20 can be disabled using BIOS services. (Default)

Always Do not allow disabling GA20.

Option ROM Messages

Sets display made for option ROM.

Interrupt 19 Capture

Enables or disables Option ROMs to Trap Int 19.

Boot Option Priorities

Specifies the sequence of loading the operating system from the installed hard drives.

Security



Enables or disables the security chip. It is recommended that you use this function with the Administrator/User password.

Save & Exit



Save Changes and Exit

Exit system setup after saving the changes.

Discard Changes and Exit

Exit system setup without saving any changes.

Save Changes and Reset

Reset the system after saving the changes.

Discard Changes and Reset

Reset system setup without saving the changes.

Save Changes

Save the changes done so far to any of setup options.

Discard Changes

Discard the changes done so far to any of setup options.

Restore Defaults

Restore/load default values for all the setup options.

Save as User Defaults

Save the changes done so far as User Defaults.

Restore User Defaults

Restore the User Defaults to all the setup options.

EFIGUI FLASH

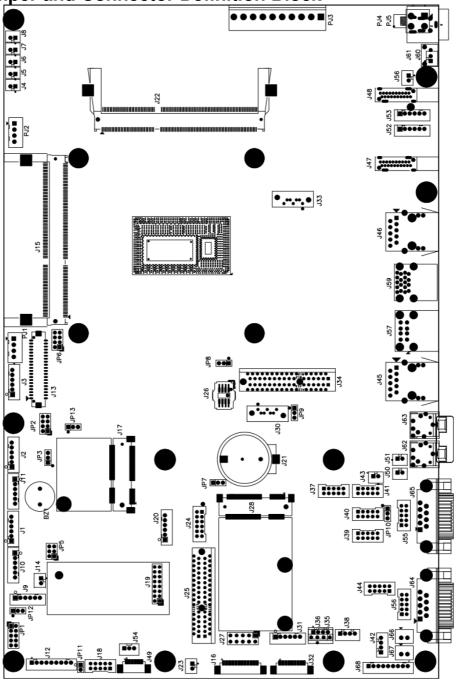
Press <Enter> to execute the simple EFI GUI Flash Progr

Appendix

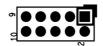
A. Jumper settings and Connectors

This appendix gives the definitions and shows the positions of jumpers, headers and connectors. All of the configuration jumpers on WTP-9C66 are in the proper position.

Jumper and Connector Definition Block



JP1 – Touch Panel Type Selection



Description	Jumper Setting
3M type	1-2, 3-4 (default)
ELO type	5-6,7-8

JP2 – LVDS Power Selection



Description	Jumper Setting
+3.3VS(for 10"/12"/15")	5-6, 7-8
+5VS(for 17"/19")	1-2, 3-4 (default)

■ JP3 – Backlight Type Selection



Description	Jumper Setting
Analog Inverter	1-2
PWM Inverter	2-3

JP5 – Sensor Selection



Description	Jumper Setting
No Panel Sensor	1-2(default)
MB Sensor 25C	3-4(default)
MB auto sensor	5-6

JP6 –Panel Resolution Selection



Jump on =0, Jump off =1

JP15 jumper setting		Panel	C-1 - D - 41		
1-2	3-4	5-6	7-8	Resolution	Color Depth
0	0	0	0	800x600	6bit
0	0	0	1	1024x768	6bit
0	0	1	0	1024x768	8bit
0	0	1	1	1280x768	6bit
0	1	0	0	1280x800	6bit
0	1	0	1	1280x960	6bit
0	1	1	0	1280x1024	8bit
0	1	1	1	1366x768	6bit
1	0	0	0	1366x768	8bit
1	0	0	1	1440x900	8bit
1	0	1	0	1440x1050	8bit
1	0	1	1	1600x900	8bit
1	1	0	0	1680x1050	8bit
1	1	0	1	1600x1200	8bit
1	1	1	0	1920x1080	8bit
1	1	1	1	1920x1200	8bit

JP7 -mSATA / mini-PCIE Selection



Description	Jumper Setting
Mini-PCIe	1-2 (default)
mSATA	2-3

JP8 – CMOS Clear



Description	Jumper Setting
Normal Open	1-2 (default)
CMOS Clear	2-3

JP9 – SATA / SATADOM Selection



Description	Jumper Setting
SATA	2-3(default)
SATA DOM	1-2

JP10 – COM4 Power Selection



Description	Jumper Setting
+5VS	2-3(default)
+12VS	1-2

JP11 – Heater Test Selection



Description	Jumper Setting
Normal	Open (default)
Heater Test	1-2

■ JP12 – PCT/RES Touch Selection



Description	Jumper Setting
PCT Touch	1-2(default)



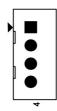
JP13 – Backlight Control Level Selection



Description	Jumper Setting
+3V	2-3
+3.3V	1-2
+5V	OPEN (default)

1.1 Connector Definition

PJ1 /PJ2 – HDD Power Connector



Pin #	Signal Description	
1	+12VS	
2	GND	
3	GND	
4	+5VS	

● PJ3 – Battery Connector



Pin #	Signal Description	
1	BATT+	
2	BATT+	
3	BATT+	
4	BATT_T	
5	BATT_CLK	
6	BATT_DAT	
7	BATT_EN#	
8	Ground	
9	Ground	
10	Ground	

PJ4 – Power Jack





Pin #	Signal Description	
1	DC In	
2	DC In	
3	GND	
4	GND	

PJ5 – Power Input Connector



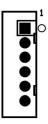
Pin #	Signal Description	
1	GND	
2	GND	
3	DC In	
4	DC In	

J1, J2, J11, J52, J53, J56 – Internal USB 2.0 Pin Header



Pin #	Signal Description	
1	+5VSB	
2	+5VSB	
3	Data -	
4	Data +	
5	GND	
6	GND	

J3 – LCD Inverter Wafer Header



Pin#	Signal Description	
1	+12VS	
2	+12VS	
3	Backlight Control	
4	Backlight Enable	
5	GND	
6	GND	

J4 – MB Heater Connector



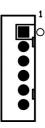
Pin #	Signal Description	
1	+12VSB	
2	GND	

J5, J6, J7, J8 – Panel Heater Connector



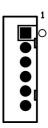
Pin #	Signal Description	
1	+12VSB	
2	GND	

J9 – Internal USB 2.0 Pin Header for PCT Touch



Pin #	Signal Description	
1	+5VSB	
2	+5VSB	
3	Data -	
4	Data +	
5	GND	
6	GND	

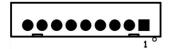
J10 – Internal USB 2.0 Pin Header for Webcam



Pin #	Signal Description	
1	+5VSB	
2	+5VSB	

3	Data -
4	Data +
5	GND
6	GND

J12 – Resistance Touch Screen Interface



Pin #	Signal Description		
PIN#	8-wire	4-wire	5-wire
1	UL(X+)	UL(X+)	UL(X+)
2	UR(Y+)	UR(Y+)	UR(Y+)
3	N/A	N/A	PROBE
4	LR(X-)	LR(X-)	LR(X-)
5	LL(Y-)	LL(Y-)	LL(Y-)
6	X+_DRIVE	N/A	N/A
7	Y+_DRIVE	N/A	N/A
8	XDRIVE	N/A	N/A
9	YDRIVE	N/A	N/A

■ J13 – LVDS Interface



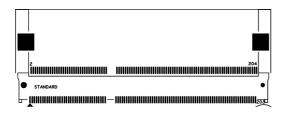
Pin #	Signal Description	Pin #	Signal Description
39	GND	40	GND
37	Ground	38	GND
35	A_TXD3+	36	B_TXD3+
33	A_TXD3-	34	B_TXD3-
31	GND	32	GND
29	A_CLK+	30	B_CLK+
27	A_CLK-	28	B_CLK-
25	GND	26	GND
23	A_TXD2+	24	B_TXD2+
21	A_TXD2-	22	B_TXD2-
19	GND	20	GND
17	A_TXD1+	18	B_TXD1+
15	A_TXD1-	16	B_TXD1-
13	GND	14	GND
11	A_TXD0+	12	B_TXD0+
9	A_TXD0-	10	B_TXD0-
7	GND	8	GND
5	GND	6	GND
3	+LVDS PWR	4	+LVDS PWR
1	+LVDS PWR	2	+LVDS PWR

■ J14 – Panel Temp Sensor Connector



Pin #	Signal Description
1	PANEL_SENSOR
2	GND

J15 / J22 – DDR3L SO-DIMM Interface

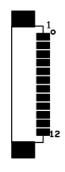


J15→ H5.2/J22→ H9.2

Pin	Symbol	Pin	Symbo	Pin	Symbol	Pin	Symbol	Pin	Symbol	Pin	Symbol
			1								
1	VREFDQ	69	DQ27	137	DQS4	2	VSS	70	DQ31	138	VSS
3	VSS	71	VSS	139	VSS	4	DQ4	72	VSS	140	DQ38
5	DQ0	73	CKE0	141	DQ34	6	DQ5	74	NC	142	DQ39
7	DQ1	75	VDD	143	DQ35	8	VSS	76	VDD	144	VSS
9	VSS	77	NC	145	VSS	10	DQS0#	78	NC	146	DQ44
11	DM0	79	BA2	147	DQ40	12	DQS0	80	NF/A14	148	DQ45
13	VSS	81	VDD	149	DQ41	14	VSS	82	VDD	150	VSS
15	DQ2	83	A12	151	VSS	16	DQ6	84	A11	152	DQS5#
17	DQ3	85	A9	153	DM5	18	DQ7	86	A7	154	DQS5
19	VSS	87	VDD	155	VSS	20	VSS	88	VDD	156	VSS
21	DQ8	89	A8	157	DQ42	22	DQ12	90	A6	158	DQ46
23	DQ9	91	A5	159	DQ43	24	DQ13	92	A4	160	DQ47
25	VSS	93	VDD	161	VSS	26	VSS	94	VDD	162	VSS
27	DQS1#	95	A3	163	DQ48	28	DM1	96	A2	164	DQ52
29	DQS1	97	A1	165	DQ49	30	RESET#	98	A0	166	DQ53

31	VSS	99	VDD	167	VSS	32	VSS	100	VDD	168	VSS
33	DQ10	101	СКО	169	DQS6#	34	DQ14	102	CK1	170	DM6
35	DQ11	103	CK0#	171	DQS6	36	DQ15	104	CK1#	172	VSS
37	VSS	105	VDD	173	VSS	38	VSS	106	VDD	174	DQ54
39	DQ16	107	A10	175	DQ50	40	DQ20	108	BA1	176	DQ55
41	DQ17	109	BA0	177	DQ51	42	DQ21	110	RAS#	178	VSS
43	VSS	111	VDD	179	VSS	44	VSS	112	VDD	180	DQ60
45	DQS2#	113	WE#	181	DQ56	46	DM2	114	S0#	182	DQ61
47	DQS2	115	CAS#	183	DQ57	48	VSS	116	ODT0	184	VSS
49	VSS	117	VDD	185	VSS	50	DQ22	118	VDD	186	DQS7#
51	DQ18	119	A13	187	DM7	52	DQ23	120	NC	188	DQS7
53	DQ19	121	NC	189	VSS	54	VSS	122	NC	190	VSS
55	VSS	123	VDD	191	DQ58	56	DQ28	124	VDD	192	DQ62
57	DQ24	125	NC	193	DQ59	58	DQ29	126	VREFCA	194	DQ63
59	DQ25	127	VSS	195	VSS	60	VSS	128	VSS	196	VSS
61	VSS	129	DQ32	197	SA0	62	DQ3#	130	DQ36	198	EVENT#
63	DM3	131	DQ33	199	VDDSPD	64	DQ3	132	DQ37	200	SDA
65	VSS	133	VSS	201	SA1	66	VSS	134	VSS	202	SCL
67	DQ26	135	DQS4#	203	VTT	68	DQ30	136	DM4	204	VTT

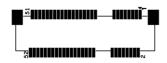
■ J16 – DICOM Connect



Pin #	Signal Description
1	ASIC_RST#
2	+3.3VS
3	+3.3VS
4	CSC_DET#
5	SCK_OUT

6	SDA_OUT
7	GND
8	SPI_PROG
9	SPI_CLK
10	SPI_DO
11	SPI_DI
12	SPI_CS

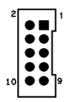
J17 – Half Mini PCI Express Socket



Pin#	Signal Description	Pin #	Signal Description
1	WAKE#	2	+3.3VSB
3	Reserved	4	GND
5	Reserved	6	+1.5VS
7	CLKREQ#	8	Reserved
9	GND	10	Reserved
11	REFCLK-	12	Reserved
13	REFCLK+	14	Reserved
15	GND	16	Reserved
17	Reserved	18	GND
19	Reserved	20	Reserved
21	GND	22	PERST#
23	PERn0	24	+3.3VSB
25	PERp0	26	GND
27	GND	28	+1.5VS
29	GND	30	SMB_CLK
31	PETn0	32	SMB_DATA
33	PETp0	34	GND
35	GND	36	USB_D-
37	GND	38	USB_D+
39	+3.3VSB	40	GND
41	+3.3VSB	42	Reserved
43	GND	44	Reserved

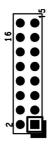
45	CL_CLK	46	Reserved
47	CL_DATA	48	+1.5VS
49	Controller Link RST#	50	GND
51	Reserved	52	+3.3VSB

● J18 – 80 Port



Pin #	Signal Description	Pin #	Signal Description
1	LPC_AD0	2	+5VS
3	LPC_AD1	4	+3.3VS
5	LPC_AD2	6	L80HLAT
7	LPC_AD3	8	L80LLAT
9	GND	10	GND

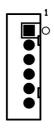
■ J19 –TPM / ID-394



Pin #	Signal Description	Pin#	Signal Description
16	+3.3VSB	15	SUS_STAT#
14	SMB DATA	13	GND
12	SMB CLK	11	Debug CLK
10	CLKRUN#	9	LPC Frame#
8	+5VSB	7	LPC AD3

6	+3.3VS	5	LPC AD2
4	SERIRQ	3	LPC AD1
2	PLT reset#	1	LPC AD0

J20 – WRDM Pin Header



Pin #	Signal Description		
6	+3.3V_ALWAYS		
5	+5V_ALWAYS		
4	SOUT		
3	GND		
2	SIN		
1	GND		

J21 – Battery Socket

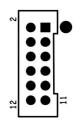


■ J23 – EC Reset connector



Pin #	Signal Description	
1	WRST#	
2	GND	

J24 – GPIO Connect



Pin #	Signal Description	Pin #	Signal Description
2	GEN_GPI1	1	GEN_GPO1
4	GEN_GPI2	3	GEN_GPO2
6	GEN_GPI3	5	GEN_GPO3
8	GEN_GPI4	7	GEN_GPO4
10	+5V	9	+5V
12	GND	11	GND

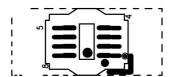
■ J25-PCIE X4 Slot for ISO Interface



Pin#	Side B	Side A	Pin#	Side B	Side A
1	+5VSB	+3.3VSB	17	Ground	USBPN
2	+5VSB	+3.3VSB	18	LPC_UART24M	Ground
3	+5VSB	+3.3VSB	19	Ground	Ground
4	+5VSB	+3.3VSB	20	Ground	Ground
5	+5VSB	+3.3VSB	21	Ground	Ground
6	+5VSB	+3.3VSB	22	Ground	Ground
7	Ground	Ground	23	PCIE_RXN	Ground
8	LPC_AD0	+5VS	24	PCIE_RXP	ISOCOM_GPO2

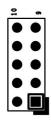
9	LPC_AD1	+5VS	25	Ground	ISOCOM_GPO3
10	LPC_AD2	+3.3VS	26	Ground	PCIE1_CLKRQ#
11	LPC_AD3	ISOCOM_GPO1	27	PCIE_TXN	Ground
12	LPC_FRAME#	USB_PWREN	28	PCIE_TXP	Ground
13	PLT_RST#	Ground	29	Ground	PCIE1_CLKN
14	SERIRQ	Ground	30	PCIE_WAKE#	PCIE1_CLKP
15	Ground	Ground	31	Ground	Ground
16	UARTCLK_24M	USBPP	32	Ground	Ground

J26 – BIOS Socket



Pin #	Signal Description	Pin #	Signal Description
1	CSO#	5	MOSI
2	MISO	6	SCLK
3	WP	7	HOLD
4	GND	8	+3.3VS

J27 – For JTAG



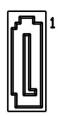
Pin #	Signal Description	Pin#	Signal Description
10	Reserved	9	GND
8	Reserved	7	+3.3V
6	Reserved	5	+3.3V
4	C2D	3	GND
2	GND	1	+3.3V

J28 – Full Mini PCI Express / mSATA Socket



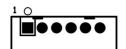
Pin #	Signal Description	Pin #	Signal Description
1	WAKE#	2	+3.3VSB
3	Reserved	4	GND
5	Reserved	6	+1.5VS
7	CLKREQ#	8	Reserved
9	GND	10	Reserved
11	REFCLK-	12	Reserved
13	REFCLK+	14	Reserved
15	GND	16	Reserved
17	Reserved	18	GND
19	Reserved	20	Reserved
21	GND	22	PERST#
23	PERn0	24	+3.3VSB
25	PERp0	26	GND
27	GND	28	+1.5VS
29	GND	30	SMB_CLK
31	PETn0	32	SMB_DATA
33	PETp0	34	GND
35	GND	36	USB_D-
37	GND	38	USB_D+
39	+3.3VSB	40	GND
41	+3.3VSB	42	Reserved
43	MSATA_ SEL1	44	Reserved
45	CL_CLK	46	Reserved
47	CL_ DATA	48	+1.5VS
49	Controller Link RST#	50	GND
51	MSATA_ SEL2	52	+3.3VSB

J30 – Standard SATA / SATA DOM Interface



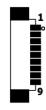
Pin #	Signal Description	
1	Ground	
2	Tx+	
3	Tx-	
4	Ground	
5	Rx-	
6	Rx+	
7	Ground / +5VS	

● J31 – PS2 KB/MS



Pin #	Signal Description		
1	KBDATA		
2	MSDATA		
3	Ground		
4	+5VSB		
5	KBCLK		
6	MSCLK		

■ J32 – Cap hotkey Connect



Pin #	Signal Description	
1	+5VSB	
2	+3.3VSB	
3	KP_SCL	
4	KP_SDA	
5	PWR_LED#	
6	KP_P_LED	
7	SATA_LED#	
8	GND	
9	GND	

J33 – Standard SATA Interface



Pin #	Signal Description
1	Ground
2	Tx+
3	Tx-
4	Ground
5	Rx-
6	Rx+
7	Ground

J34–PCIE X4 Slot Interface



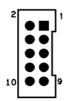
Pin#	Side B	Side A	Pin #	Side B	Side A
1	+12VS	RSVD	17	RSVD	RXN0
2	+12VS	+12VS	18	GND	GND
3	RSVD	+12VS	19	TXP1	RSVD
4	GND	GND	20	TXN1	GND
5	SMBCLK	RSVD	21	GND	RX1
6	SMBDATA	RSVD	22	GND	RX1
7	GND	RSVD	23	TXP2	GND
8	+3.3VS_PCIE	RSVD	24	TXN2	GND
9	RSVD	+3.3VS_PCIE	25	GND	RX2
10	+3.3VSB	+3.3VS_PCIE	26	GND	RX2
11	PCIE_WAKE#	PLT_RST#	27	TXP3	GND
12	PCIE_CLKRQ#	GND	28	TXN3	GND
13	GND	CLKP	29	GND	RX3
14	TXP0	CLKN	30	RSVD	RX3
15	TXN0	GND	31	RSVD	GND
16	GND	RXP0	32	GND	RSVD

■ J35 / J36 – Co-lay CPU FAN



Pin #	Signal Description
1	PWM
2	RPM
3	+12VS
4	GND

J37 – Internal COM4 TTL Serial Port



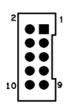
Pin #	Signal Description	Pin #	Signal Description
2	TTL_DSR#	1	TTL _DCD#
4	TTL _RTS#	3	TTL_SIN
6	TTL _CTS#	5	TTL_SOUT
8	TTL _RI#	7	TTL_DTR#
10	+5VS/+12VS	9	GND

J38 – System FAN



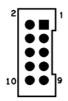
Pin #	Signal Description
1	PWM
2	RPM
3	+12VS
4	GND

J39 – Internal COM5 Serial Port



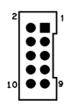
Pin #	Signal Description	Pin #	Signal Description
2	232_DSR#	1	232_DCD#
4	232_RTS#	3	232_SIN
6	232_CTS#	5	232_SOUT
8	232_RI#	7	232_DTR#
10	+5VS	9	GND

J40 – Internal COM4 Serial Port



Pin #	Signal Description	Pin #	Signal Description
2	232_DSR#	1	232_DCD#
4	232_RTS#	3	232_SIN
6	232_CTS#	5	232_SOUT
8	232_RI#	7	232_DTR#
10	+5VS	9	GND

J41 – Internal COM3 Serial Port



Pin #	Signal Description	Pin #	Signal Description
2	232_DSR#	1	232_DCD#
4	232_RTS#	3	232_SIN
6	232_CTS#	5	232_SOUT
8	232_RI#	7	232_DTR#
10	+5VS/+12VS	9	GND

J42 – Power / HDD LED



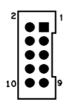
Pin #	Signal Description
4	PWR_LED#
3	+3.3VSB
2	+3.3VSB
1	SATA_LED#

J43 – Internal MIC Connect



Pin #	Signal Description
1	MIC_R
2	MIC_L

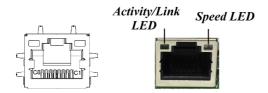
J44 – Internal COM6 Serial Port



Pin #	Signal Description	Pin #	Signal Description
2	232_DSR#	1	232_DCD#
4	232_RTS#	3	232_SIN
6	232_CTS#	5	232_SOUT
8	232_RI#	7	232_DTR#

10 +5VS/+12VS 9 GND

J45 / J46 –External RJ45 Ethernet Port



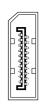
Activity/Link LED

Status	Description
OFF	No Link
Blinking	Data Activity
ON	Link

Speed LED

Status	Description
OFF	10 Mbps
Green	100 Mbps
Orange	1 Gbps

■ J47,J48 – DisplayPort Interface



Pin #	Signal Description	Pin #	Signal Description
1	ML_LANE0+	11	GND
2	GND	12	ML_LANE3-
3	ML_LANE0-	13	CONFI G1
4	ML_LAN1+	14	CONGI G2
5	GND	15	AUX_CH+
6	ML_LAN1-	16	GND

7	ML_LANE2+	17	AUX_CH-
8	GND	18	HOT PLUG
9	ML_LANE2-	19	RETURN
10	ML_LANE3+	20	+3.3VS

■ J49 – Light Sensor Connect



Pin #	Signal Description	
1	+3.3V	
2	NC	
3	Ground	
4	SMBCLK	
5	LIG_SEN_INT#	
6	SMBDATA	

■ J50, J51 – RIGHT / LEFT CH for Speaker.



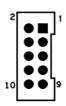
Die #	Signal Description		
Pin #	J50 (RIGHT CH)	J51 (LEFT CH)	
1	ROUT+	LOUT+	
2	ROUT-	LOUT-	

J54 – Heater Error / Heating LEDs



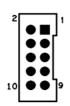
Pin #	Signal Description
3	+3.3V_ALWAYS
2	HEATER_LED#
1	ERROR_LED#

J55 – Internal COM2 Serial Port



Pin #	Signal Description	Pin #	Signal Description
2	232_DSR#	1	232_DCD#
4	232_RTS#	3	232_SIN
6	232_CTS#	5	232_SOUT
8	232_RI#	7	232_DTR#
10	+5VS/+12VS	9	GND

J56 – Internal COM1 Serial Port



Pin #	Signal Description	Pin #	Signal Description
2	232_DSR#	1	232_DCD#
4	232_RTS#	3	232_SIN
6	232_CTS#	5	232_SOUT
8	232_RI#	7	232_DTR#
10	+5VS/+12VS	9	GND

● J57 – USB2.0 Port



Pin #	Signal Description	Pin #	Signal Description
1	+5VSB	5	+5VSB
2	Data1-	6	Data2-
3	Data1+	7	Data2+
4	GND	8	GND

J58 – Power Switch connect



Pin #	Signal Description
1	Power ON
2	GND

● J59 – USB3.0 Port



Pin #	Signal Description	Pin #	Signal Description
1	+5V	10	+5V
2	Data1-	11	Data2-
3	Data1+	12	Data2+
4	GND	13	GND

5	SSRX1-	14	SSRX2-
6	SSRX1+	15	SSRX2+
7	GND	16	GND
8	SSTX1-	17	SSTX2-
9	SSTX1+	18	SSTX2+

■ J60 – Reset Connector



Pin #	Signal Description
1	SYS_RESET#
2	GND

■ J61 – Reset Button



Pin #	Signal Description
1	SYS_RESET#
2	GND
3	GND
4	GND

J62 / J63 – External Audio Phone Jack

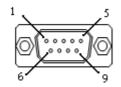






Audio Jack	Signal Description
J62	Line Out (stereo) Green
J63	Microphone (stereo) Pink

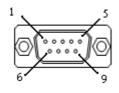
■ J64 – External COM1 Connector





Pin #	Signal Description		
	RS-232	RS-422	RS-485
1	DCD	TX D-	DATA-
2	RXD	TX D+	DATA+
3	TXD	RX D+	
4	DTR	RX D-	
5	GND		
6	DSR		
7	RTS		
8	CTS		
9	RI#		

■ J65 – External COM2 Connector





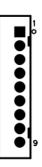
Pin #	Signal Description	Pin #	Signal Description
1	DCD	2	RXD
3	TXD	4	DTR
5	GND	6	DSR
7	RTS	8	CTS
9	RI#	10	1

■ J66,J67− reading light



Pin #	Signal Description
1	+12VSB
2	READING LIGHT

J68– Mechanical hotkey



Pin #	Signal Description
1	PWRSW#
2	Ground
3	Sound up
4	Sound down
5	Ground
6	Brightness up
7	Brightness down
8	+3.3VSB
9	PWRLED#

B. Touch Lock AP User's Manual

1. API Prerequisites

1.1 Obtaining the AP and Related Documentation

This Touch Lock Tools Application Program (AP) and related documentation are available for whom has signed and returned a copy of the AP Licensing Agreement to Wincomm. Contact Wincomm account manager if you require a copy of the software.

1.2 Touch Lock Tools AP Requirement

This Touch Lock Tools AP is supported under the following operating systems and Wincomm product platforms:

Operating system: Microsoft[™] Windows XP pro 32bit / 64bit, Microsoft[™] Windows XP embedded 32bit / 64bit, Microsoft[™] Windows 7 pro 32bit / 64bit, Microsoft[™] Windows 7 embedded standard 32bit / 64bit.

Product platforms: WLP-7B20.

2. The Touch Lock Tools AP Program

2.1 Overview

The following instructions assume that you have obtained the Touch Lock Tools AP software, and have a working knowledge of the operating system on which you are installing the AP files. If you are in any doubt about the installation procedures, please contact your account manager to get the help.

2.2 API use procedure

2.2.1 If Touch Lock Tools is enable, touch panel will lock by set unit times (default: 20 seconds).

2.3 Run Program

- 2.3.1 Confirm that the system has been installed Microsoft Visual C++ 2008 Redistributable and Microsoft .NET Framework 2.0.
- 2.3.2 Run "Touch_Lock_Tools.exe" to running program as follow:

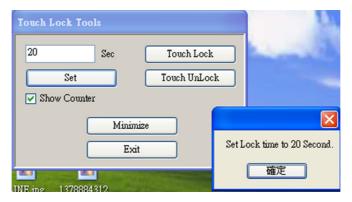


2.3.3 You can see the Touch Lock Tools form and min keyboard as below.





2.3.4 You can change touch lock timer (range 1-100 / 1-99 means 1-99 seconds / 100 means always lock). By set value in textbox and click "Set" button. If setting success, it will show message as follow.



If setting timer value error, it will show error message as follow.



2.3.5 If touch lock is enable, you will see the timer in the lower right corner of the screen, and icon in task bar will become red .



2.3.6 If timer countdown to zero, touch will unlock automatically, and icon in task bar will become green.



2.3.7 If you don't want to see the counter, you can uncheck the show counter option.



2.3.8 When you click "Minimize" button, the form will concealed below Task Bar.



2.3.9 When you click "Exit" button, program will disable WDT and close.

3. Getting Help

If assistance is required when running the AP, please contact your account manager.