



Quick Installation Guide

2902040

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About this installation guide

This manual provides general information and installation instructions about the product. This Quick Installation is intended for experienced users and integrators with hardware knowledge of personal computers. If you are not sure about any description in this Quick Installation, please consult your vendor before further handling.


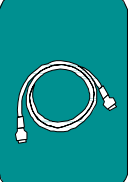
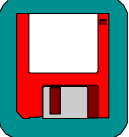
Warning

Panel PC and their components contain very delicate Integrated Circuits (IC). To protect the Panel PC and its components against damage from static electricity, you should always follow the following precautions when handling it :

1. Disconnect your Panel PC from the power source when you want to work on the inside
2. Hold the board by the edges and try not to touch the IC chips, leads or circuitry
3. Use a grounded wrist strap when handling computer components.
4. Place components on a grounded antistatic pad or on the bag that came with the Single Board Computer, whenever components are separated from the system
5. It possibly needs BIOS support in the case of using special backplane, otherwise, it might be not able to function completely.
6. Please make sure the power connector is tightly plugged into the power socket before power on.

Getting Started

This section will help you have your 2902040 up and running smoothly.

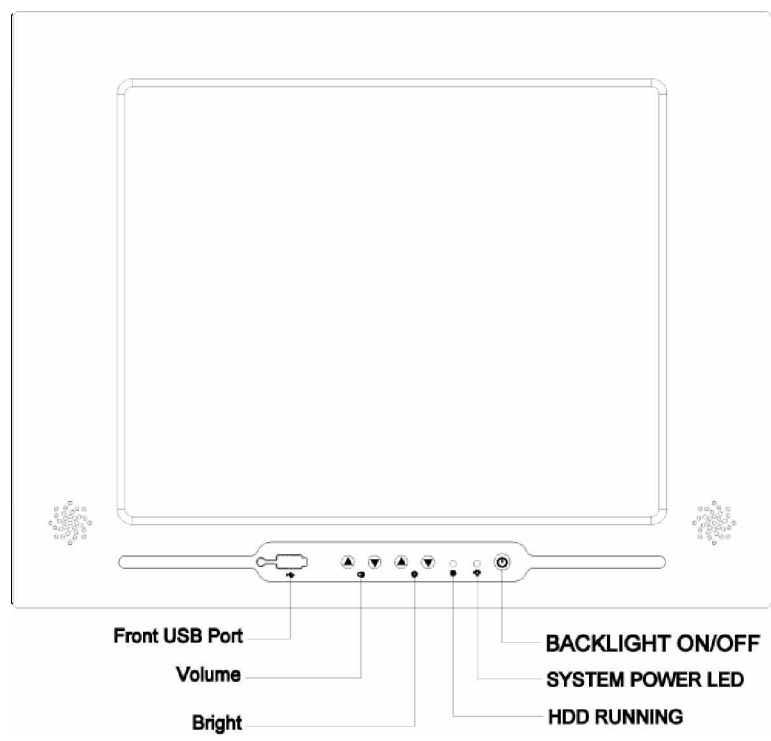
PACKING LIST	
	2902040
	1 x Grounding Cable 1 x CPU Cooler 8 x LCD Frame Hook 8 x Hook Screws 2 x Power Cord (American & French Cordset)
	1 x Driver CD

Before up and running, please make sure the package contains all of above accessories.

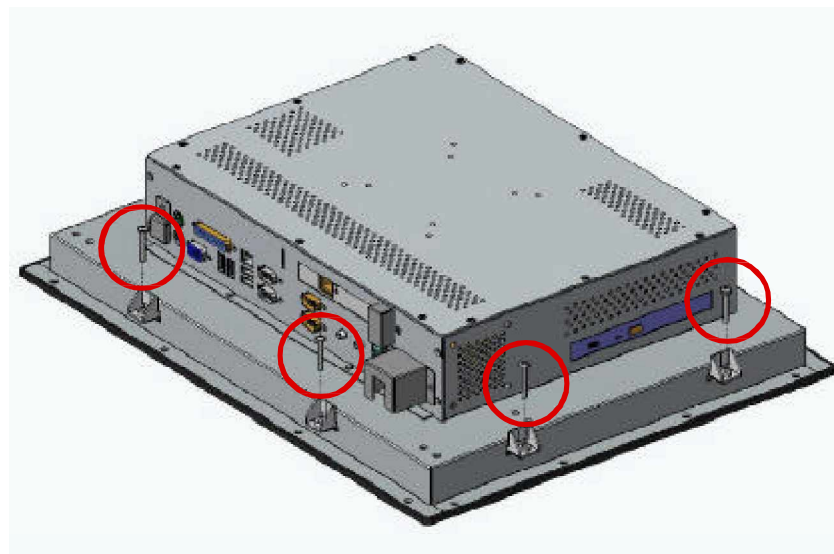
If any of the above items is damaged or missing, contact your vendor immediately.

Specification		
Model Name	Panel PC 2902040	
System	CPU	Intel Socket 478 Pentium M CPU up to 2.0GHz
	Cache	2nd Level depends on CPU
	Memory	2 x 184 pin DIMM up to 2GB DDR SDRAM
	VRAM	Up to 64MB shared memory
	Chipset	Intel 852GM + Intel ICH4
	Watchdog Timer	255-level Reset
	Construction	Heavy-duty steel & Aluminum Front bezel (optional)
	Weight	10 kg
	Dimension (L x H x D)	483.5 x 378 x 106.5 mm
I/O	Serial Port	3 x RS-232 port, 1 x RS-232/422/485 (optional)
	Parallel Port	1 x SPP/EPP/ECP mode
	USB Port	4 x USB 2.0 compliant
	KB / MS	1 x PS2 K/B and 1 x Mouse
	LAN	1 x Intel 10/100 base-T Ethernet
	Audio	Internal 2 x speakers (2W) and 1 x Line-out / Mic-in
	Expansion bus	1 x Mini PCI Socket & PCI Slot
LCD Display	Size / Type	17" TFT Color / 2CH 24 bit LVDS LCD
	Max. Resolution	1280 x 1024 Pixels
	Pixel Pitch	0.264mm x 0.264mm
	Touch Screen	17" Resistive (USB), capacitive (optional)
	Max. Color	16.2 M
	Viewing Angle	80° (Left), 80° (Right), 85° (Up), 75° (Down)
	Luminance (cd/m2)	420
	Back Light MTBF	30,000 hours
Storage	HDD / Type	1 x built-in 3.5" HDD bay
	Combo Drive	1 x Slim Type 8x DVD-ROM or above
	CD-ROM Drive	1 x Slim Type 24x CD-ROM or above (optional)
Power Module	AC Input	AC Input 90-260V, 50-60Hz or DC 12V/5A (optional)
	DC Output	DC Output 12V / 2A, 5V / 2A
Mechanical & Environmental	Operating Temperature	0° C ~ 50° C
	Relative Humidity	10% ~ 95%, 45° C, non condensing
	Shock	10G/peak (11m sec)

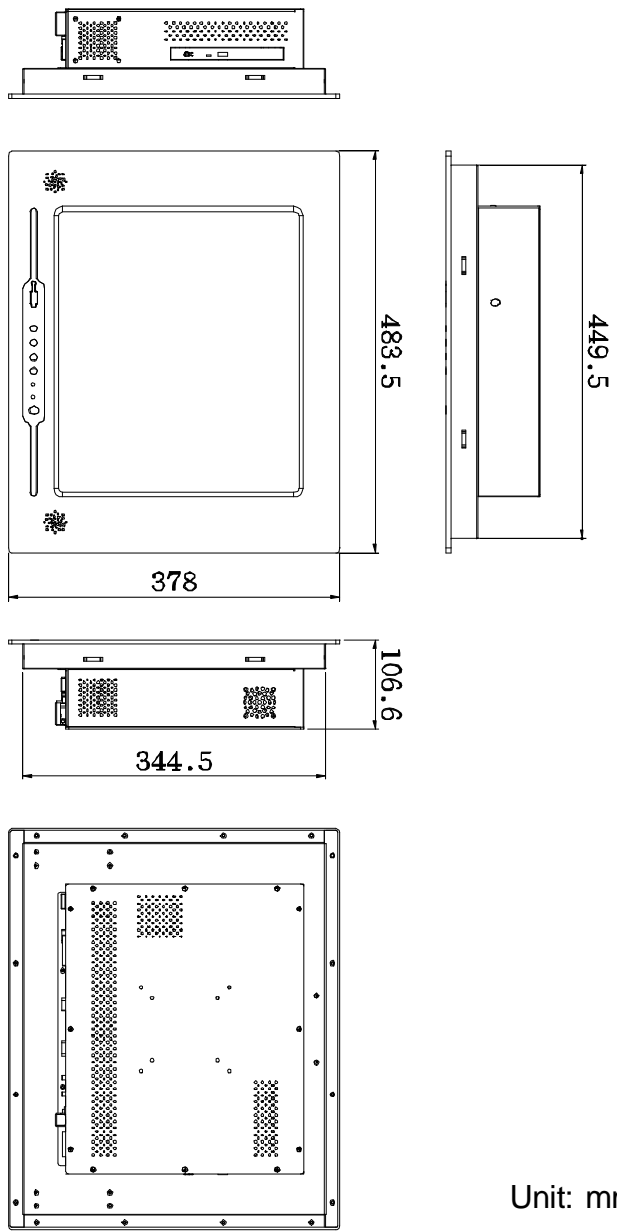
Overview



Hook Mounting



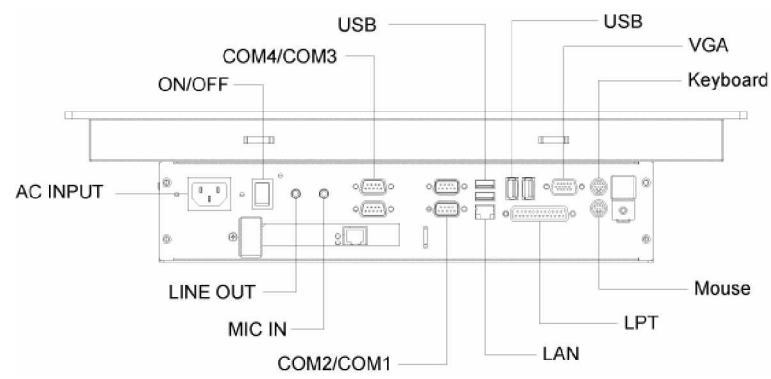
Dimension



LOCATION OF I/O PORTS

Before starting to install software on your new Panel PC please spend some time to find out the exact location of connectors and HDD (if pre-installed). The front panel does not contain any indicators, switches, connectors or drive access. All these are to be found on the left and right side and on the rear of the system.

Default I/O

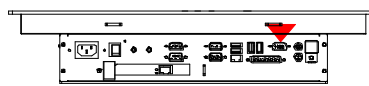


CONNECTING PERIPHERALS

The user can use the I/O interfaces located at the backside of the chassis to connect external peripheral devices, such as a mouse, a keyboard, a monitor, serial devices or parallel printer etc. Before connection, make sure that the computer and the peripheral devices are turned off.

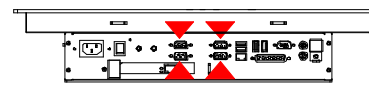
Connecting an external CRT

2902040 has a 15-pin analog RGB interface connector located at the rear side of the chassis for connection a secondary display. The system can support simultaneous display on both its LCD display and on the external CRT display. Note that the preferred resolution is 1280 x 1024 because this is what the LCD Panel needs to operate full screen.



External Serial Ports (COM1/2/3/4)

The 2902040 logic board supports four onboard serial ports, all COM 1/3/4 ports supports RS-232, COM2 supports RS-232/422/485.



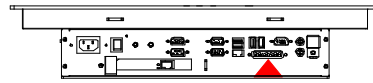
The external COM1, COM2, COM3 and COM4 are all D-SUB 9-pin connectors. To connect any serial device, follow the following instructions:

1. Turn off the Panel PC system and the serial devices.
2. Attach the interface cable of the serial device to the 9-pin D-SUB serial connector. Be sure to fasten the retaining screws.
3. Turn on the computer and the attached serial devices.
4. Refer to the serial device's manual for instruction to configure the operation environment to recognize the new attached devices.
5. If the serial device needs specified IRQ or address, you may need to run the CMOS setup to change the hardware device setup.

Parallel Port

2902040 can support the latest EPP and ECP parallel port protocols to be used to connect a wide array of printers, ZIP drive, parallel scanner and any other parallel devices. The printer interface on the 2902040 is a 25-pin female D-SUB connector. To connect any parallel device, follow the steps below:

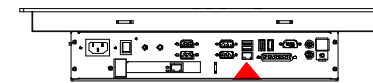
1. Turn off the Panel PC system and the parallel devices.
2. Plug in the male connector of the parallel device to the 25-pin female D-SUB connector and fasten the retaining screws.
3. Turn on the system and the attached parallel devices.
4. Refer to the parallel device's manual for instruction to configure the operation environment to recognize the new attached devices.
5. You may need to run the CMOS setup to change the hardware device setup.



LAN Port

P1515 provides one Intel 82562ET 10/10 Base-T Ethernet (RJ-45) interface. For network connection, follow the instructions below;

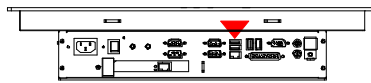
1. Turn off the Panel PC system and the Ethernet hubs.
2. Plug in one end of cable of a 100/10 Base-T hub to the system's RJ-45 jack.



USB Ports

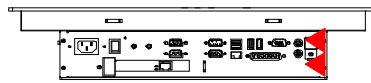
2902040 provides four external USB ports to connect to external USB devices. USB ports and devices are hotplug

capable. Therefore any USB device can be connected at all time without the need to power down your system. Note that for many of these devices you will first have to install proper device drivers before they can be recognized by the system



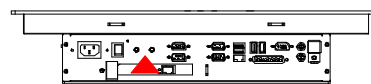
PS/2 Keyboard/Mouse

2902040 provides two standard PS/2 keyboard/mouse connectors located at the rear panel. If the user would like to use AT keyboard, then an adapter to connect the PS/2 KB to AT KB is needed.



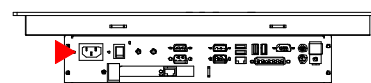
Line out and Mic In

2902040 also provides Line-out and Mic-in connectors.



AC Power Input and Power Switch

One end of the power cable is fitted with a standard power connector that connects to any normal wall outlet (types differ per country). To connect the system to power, follow the following instructions :



- 1 Make the system power switched off.
- 2 Plug the circular connector firmly into the circular socket on the rear panel.
- 3 Connect the standard male plug to an electrical outlet.
- 4 For operation, power up the system.

Hardware Installation

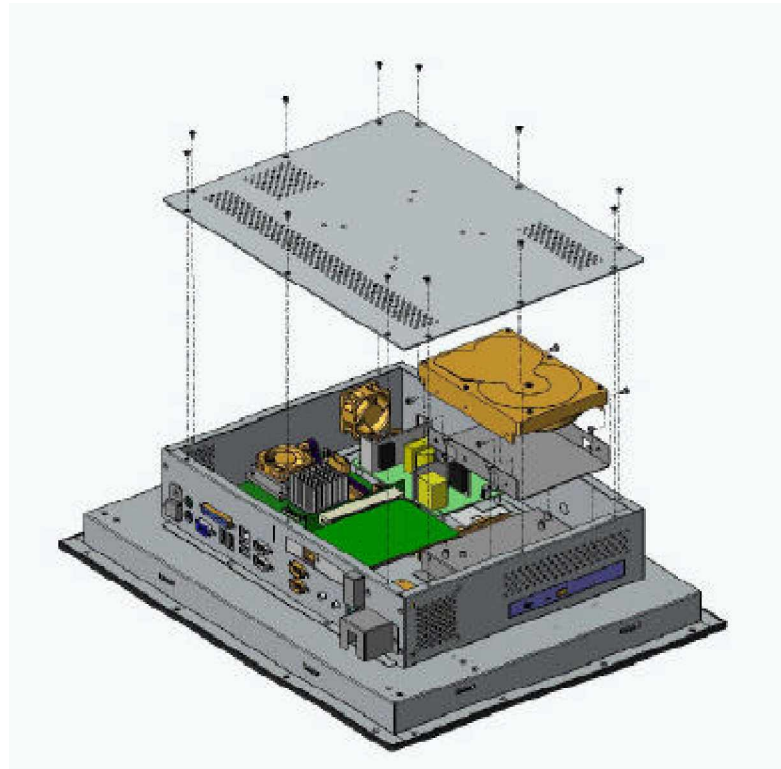
HDD installation

1. On the back of 2902040, locate the screws that secure the rear case.

Use screw driver to remove the screws. Keep the screws safely for later use.

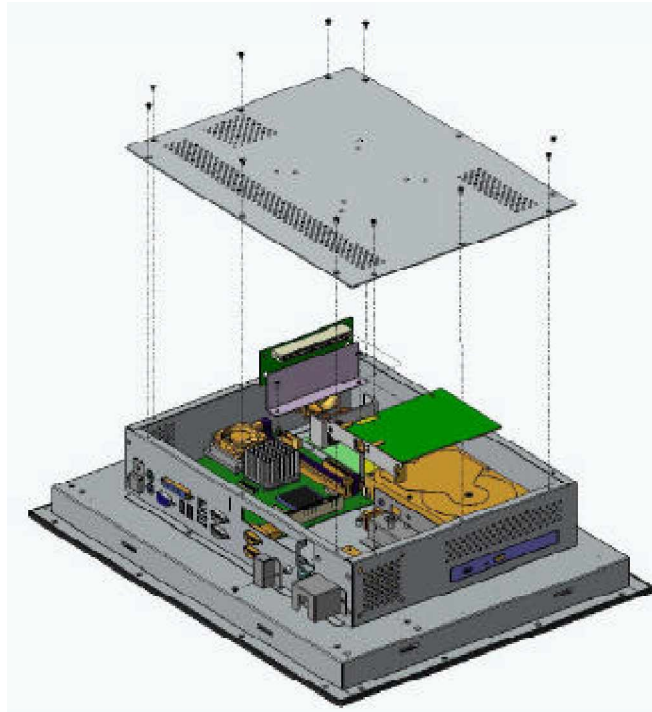
Pull the baffle slightly upward the main unit until it is disengaged from main unit.

2. Put the HDD into the drive bay and screw it on.



Riser Card Installation

1. Take off the rear case
2. Loosen 2902040 riser card socket.
3. Horizontally insert riser card and screw on bracket.
4. Put the rear case back and screw on.



Panel PC Touch Screen Driver Installation

1. Go into **Drivers & Utilities** screen.
2. Select **Panel Computing**.
3. Select **2902040**.
4. Select **All**.
5. Select **Touch Screen Driver**.
6. Select **Digitech** installation.

Note: If touch screen driver doesn't work, please contact your vendor.

Any advice or comments about our products and service, or anything we can help you with please don't hesitate to contact with us. We will do our best to support you for your products, projects and business

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