

PC-1040/C/T

Panel Computer

User Manual

To users of this product

Thank you for purchasing our panel PC. This product adopts high-performance embedded computer hardware. It is designed for operations under relatively severe environments of multimedia ad/industry personal controlling equipment/instruments/military affairs/intelligent product and featuring such unique safeguards as anti-vibration, heat-emission, wide power supply input, etc. The delicately optimized design meets the requirements of all users in its applications to various conditions and occasions. This product is small in shape, easily installed and simple to operate. Moreover, the mini Panel PC is easily adaptable to a professional electronic equipment of industry personal controlling as well as its ease of extensive use such as multimedia ad/instruments/military affairs/intelligent product field. With its excellent quality and exquisite manufacturing technology, your product will bring limitless entertainment and enjoyment to you.

In order to ensure the correct installation and the most efficient service, please read this user manual carefully.

Notice: Electric Safety

- In order to prevent electric shock and possible severe damage to the unit, please temporarily remove the PC power adapter from the power socket *before* moving the Car PC.
- In order to prevent voltage fluctuations from damaging your purchase and the possibly to the vehicle's battery, please switch the computer's power switch to the "off" position while starting the vehicle.
- Once the computer's power has been put into the "on" position do not switch the computer's power to the "off" position until the computer is fully booted. When shutting down the computer follow the guidelines in this user guide.
- Please make sure that the power voltage setting has been adjusted to the standard voltage value of the location where the product is being used.
- No owner/user-serviceable components exist in this unit. Allow only qualified technical service personnel to service or open this unit. Contact our factory service department. Unauthorized tampering may void the product warranty.

Operational Security

- Before using this product, please first make sure that all external wires and power adapters have been correctly connected. If you suspect any defects, please contact your sales agent or factory personnel immediately.
- To prevent electric short-circuiting, it is forbidden to leave any metal stuffs in the PC mainframe.
- Dust, humidity and dramatic temperature changes will affect the usage life of this computer. Please keep the machine away from these hazards.
- Although an anti-vibration mechanism is adopted inside the computer, please avoid traumatic movement, jolting or dropping of the unit.
- In cleaning the units do not use chemical detergents. Remove dust with a soft cloth to ensure brightness. If any technical problems occur while using this unit, please refer to our sales agents or related technicians. We will correct any problem as rapidly as possible. Please refer to your warranty.

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. Product description

1. Application

1.1 Computer: This product adopt LCD touch panel PC; it is embedded human-machine interface of high capability with INTEL core. The product adopts 10.4 inch TFT LCD screen, display resolving rate with 800*600; fourth-line resistance touch screen; INTEL P-M CPU module. It is handsome and hard, good anti-vibration and electromagnetism shielded capability, and is optimal choice with using telecom, electric power, multimedia, national defence, industry roboticized control equipment and manufacturing field. It uses human-machine interface, thin client, PLC and POS communication, control terminal. Moreover, it used advanced structure design, system install agile and convenient. The installation mode is allowed panel type, hanging, VESA standard underprop, etc.

1.2 Extension functions: with USB、COM、PS/2、S VIDEO-OUT、VGA、CF、Supper I/O、LAN watchdog timer port through which the user can accessorize this machine with more video output, mainboard encryption, support PXE and WOL, various patulous functions, etc.

1.3 Applicative OS: WIN98 / WIN2000 / WIN XP/ WIN 2003,the user can installed the relative OS according to they are usage, so that it can come true: Long-distance control, multimedia play, knowledgeware, more video output with some special field computer functions.

2. Feature

Capability stable——Industrial design, capability stable.

Handsome and hard——Panel adopt the plastic casting, high structure precision. The back casing adopts thick armor plate to do. The whole machine is handsome and hard, good electromagnetism shielded capability.

Compact design——With dimensions of 280mm (L) x210mm(W) x 60 mm(H). The unit is easily installed.

High Performance Specification——CPU can supply as request. Compare the unit's smaller dimensions and upper performance features.

Low power consumption——Energy savings and efficient heat emissions make the unit compatible with the vehicle.

Professional design——The PC is specifically designed with industry environment. Designed using optimal mechanical and electrical specifications, product features focusing on anti-vibration, power separation and heat emissions satisfy the most demanding user. The pc will function superbly in severe operating conditions including, but not limited to, temperature extremes, electromagnetic disturbances caused by inferior road conditions.

Power supply——This equipment has a wide-voltage input power control system.

3. Function description

Application s Functions	Industry Control	Multi-media ad
Choose touch screen integrative unit	<ul style="list-style-type: none"> ● WI-FI WLAN (extension) ● Wired network control ● Software control equipment ● Touch screen control ● Special software installation 	<ul style="list-style-type: none"> ● WI-FI WLAN (extension) ● Wired network control ● Special multi-media software control ● One pull more screen display output control

4. Specification

Item	Description
Display screen	10.4 inch TFT LCD 2642mm, 1440000 pixels (800*600)
Contrast	500:1
Brightness	170cd/m ²
View angle	160°/160°(horizontal / vertical)
Touch screen	Fourth-line resistance
CPU	Standard configure: Intel Pentium M 1.0GHz / 2M Cache
Memory	Standard configure: 256M (DDR 266/333/400 BGA) up to 1.0G
Storage	Optional HD: IDE, 5400 RPM ,up to 120G Optional CF: 2G , up to 8G
Chipset	Intel 855 North Bridge, Intel Ich 4 South Bridge
Video card	Intel (build-in display)
Audio output	AC97 4Ch, 3.1 Channels
Video output	VGA、S VIDEO-OUT
Ethernet card	1 × RJ-45 network card port, 10M/100M Ethernet
Wireless communication	WI-FI 802.11b – USB (extension) Bluetooth – USB (extension) GPRS/CDMA/3G – USB(extension)
Panel interface	1 × VGA, 1 × S VIDEO-OUT, 3 × USB, 1 × RJ-45, 2 × RS232, 1 × AUDIO-OUT, 1 × CF slot, 1 × PS/2 KEYBOARD/MOUSE, 1 × 4P-DC port
OS	Win 98/2000/XP/2003
Power supply	DC 12 V — 36 V
Current	2.3 A-3.2 A
Power consumption	<40W
Size	280mm × 210mm × 60mm
Weight	2370g (with HD 90g)
Working temperature	0 -45
Storage temperature	-20 -60
Working humidity	10%-85%
Storage humidity	10%-90%

. Sketch map of mainframe panel



(Front)



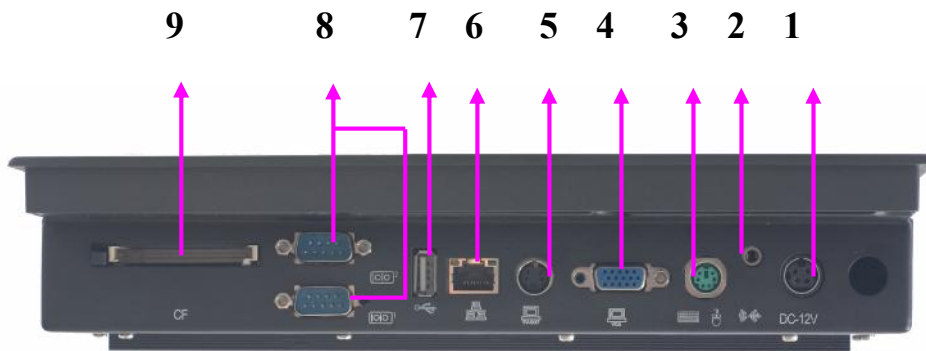
(Back)

1. Sketch map of mainframe front panel



- 1、HD indicator light.
- 2、Reset key.
- 3、Power on-off key.
- 4、USB port.

2. Sketch map of mainframe rear panel



- 1、DC IN: Power input 12-36V.
- 2、AUDIO-OUT: audio output interface, external sonic system/earphone.
- 3、PS/2 for mouse and keyboard ports.
- 4、VGA: VGA output, external display.
- 5、S VIDEO-OUT: Video output, external monitor.
- 6、RJ-45 Ethernet interface, contact with 10/100M reticle.
- 7、USB: Connect with external USB equipment.
- 8、COM1、COM2 serial port, external serial port equipment.
- 9、CF faucet, external CF storage.

3. Sketch map of fixed installation



. Connection explanation



1、 connect to power supply.

2、 connect with power input faucet of mainframe rear panel, in order to provide mainframe power.

3、 connect with keyboard

4、 connect with mouse

5、 connect with PS/2 for mouse and keyboard ports of mainframe rear panel, in order to connecting mouse and keyboard for using.

. System operating explanation

1. Panel controlling button and state direction

Power control on-off button (touch switch 'PWR' Button)

The user can gently press 'PWR Button' touch switch to turn on/off mainboard system power that open/close the computer.

Reset control button (touch switch 'RST')

Press RST gently to restart computer; when system go wrong and can't work on, touch press RST to resume system working and need not switch power thereby prolonging life of the unit.

State indication (LED indicator light 'PWR_LED' & 'HDD_LED')

When PWR_LED indicator light locate in extinct state, the mainboard system power locate power turnoff state; When PWR_HDD_LED indicator light locate in light state, the mainboard system power locate turn-on state; Usually the lamp is blue LED.

When HDD_LED indicator light locate in glittery state, IDE device(for example HD\CDROM etc.) go along read-write operation; Usually the lamp is red LED.

State indication of network in backside (double color LED indicator light 'LAN_LED')

When LAN_LED locate upside of double color LED indicator light in extinct state (superstratum LED isn't light), the mainboard network locate closed state; When LAN_LED locate upside of double color LED indicator light in light state (superstratum LED is light), the mainboard network locate link state; Usually the lamp is green LED.

When LAN_LED locate underside of double color LED indicator light in glittery state (substrate LED is light continuously), the mainboard network locate active state.

2. Power on-off control

- 1、 After connect to the power, the computer will be stand-by mode.
- 2、 Push the POWER button on the front panel to turn on the computer, push it once more to turn off and enter into standby state. Disconnect the power supply to exit standby state.
- 3、 Please push the RESET button on the front panel to reset when the system halted.

.Trouble shooting

1. The power indicator doesn't light after you pushed the power button.

-Please check and make sure the power connection is correct and the power supply proper.

2. No sound

-Please check and make sure the audio lint is connected properly.

-Please check is the system is in MUTE mode or the volume is down to the minimum level.

-Check whether the driver of audio card is installed correctly.

3. Not display:

-Check whether the display work properly.

-Check and make sure the connection is correctly.

4. Couldn't recognise USB.

-Re-insert the USB, so that the system will recognise it again.

-Insert to the other USB ports..

-Check whether the driver program is installed properly.

5. Display blue screen when you installing PWIN98SE。

-Please check whether external hanging FDD(Floppy Drive Device), if not, please enter into BIOS SETUP PROGRAM/STANDARD CMOS FEATURES/DRIVE A [NONE] AND INTEGRATED PERIPHERALS/ON-BOARD FDC CONTROLLER [DISABLED] or it will display blue screen when you installing PWIN98SE.

6. Sleep mode can't enter.

-Sleep mode need the support of display card. Please install correct display card driver.

7. Recognize 160GB HDD as136GB HDD.

-160GB is a part of 48-bit HDD, it is supported by BIOS. The last BIOS can recognize it.160GB

8. How to start the USB2.0 function?

-Because of ICH4 this unit can read four USB2.0 port.

We suggest that install WINXP SP2 so that it needn't a driver for USB2.0 and could read the USB2.0, then work normally as transmission rate of 480Mbit.

9. Couldn't find the HYPER THREADING.

-This unit support HYPER THREADING, but is only work in P4 which HYPER THREADING. So that you need to install P4 before operate on it.

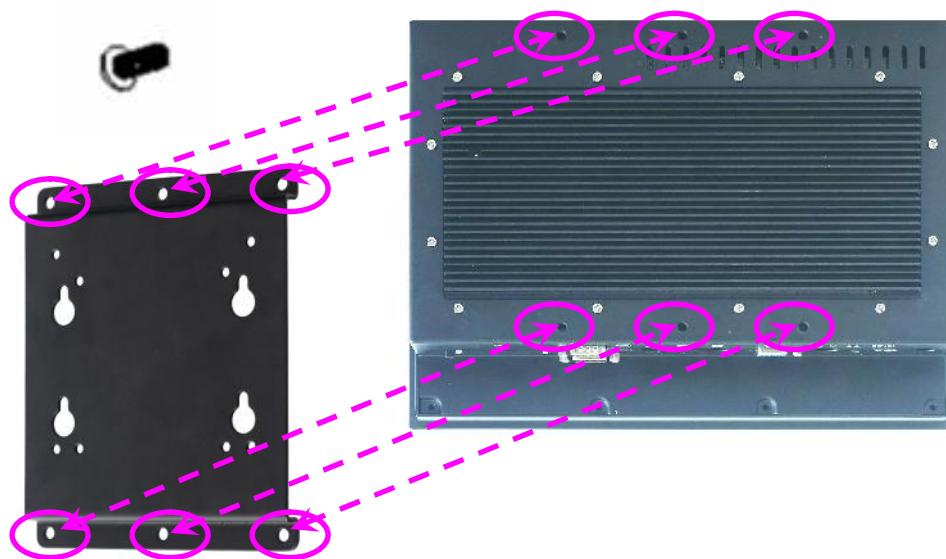
Windows XP and LINUS2.4 X support H-T function.

10. What kind of operating system support H-T function?

-WINDOWS XP and WIN 2003 can support HT function.

Please reference to <http://www.intel.com/support/platform/ht/os.htm> for more details.

.Product installation instruction



. Accessories



Description	Amount
Power supply adapter	1 piece
Fixed screw	4 piece
PS/2 mouse/keyboard connection cable	1 piece
Fixed bracket	1 piece
Driver disk	1 piece
Operation instruction	1 piece