



LCD-PC

i-One Series H6/H7

User Guide



FCC-B Radio Frequency Interference Statement



This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the measures listed below.

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Notice 1 The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notice 2 Shielded interface cables and A.C. power cord, if any, must be used in order to comply with the emission limits.

Trademarks

All trademarks are the properties of their respective owners.

Intel® is a registered trademarks of Intel Corporation.

Windows® 7/Vista/XP/NT/2000/98/95 are registered trademarks of Microsoft Corporation.

Award® is a registered trademark of Phoenix Technologies Ltd.

AMI® is a registered trademark of American Megatrends Inc

Safety Instructions



1. Always read the safety instructions carefully.
2. Keep this equipment away from humidity.
3. Lay this equipment on a reliable flat surface before setting it up.
4. The openings on the enclosure are for air convection hence protect the equipment from overheating. **DO NOT COVER THE OPENINGS.**
5. Confirm the voltage of the power source and adjust accordingly to 110/220V before connecting the equipment to the power inlet.
6. Place the power cord in such a way that it cannot be stepped on. Do not place anything over the power cord.
7. Always unplug the Power Cord before inserting any add-on card or module.
8. All cautions and warnings on the equipment should be noted.
9. Never pour any liquid into the opening. This will cause damage and/or electrical shock.
10. Do not disable the protective grounding pin from the plug. The equipment must be connected to a grounded main socket/outlet.
11. The Optical Storage devices are classified as Class 1 Laser products. Use of controls or adjustments or performance of procedures other than those specified is prohibited.
12. Do not touch the Laser lens inside the optical storage drive.
13. When installing the coaxial cable to the TV Tuner, it is necessary to ensure that the metal shield is reliably connected to a protective earthing system of the building. Cable distribution systems should be grounded (earthed) in accordance with ANSI/NF PA 70, the National Electrical Code (NEC), in particular, Section 820.93, Grounding of Outer Conductive Shield of a Coaxial Cable.
14. If any of the following situations arise, have the equipment checked by authorized service personnel:
 - The power cord or plug is damaged.
 - Liquid has penetrated into the equipment.
 - The equipment has been exposed to moisture.
 - The equipment has not worked well or you cannot get it working according to the User's Guide.
 - The equipment has been dropped and damaged.
 - The equipment has obvious signs of breakage.
15. Do not attempt to remove or upgrade any component by yourself, any installation or modification should be conducted by service personnel.

DO NOT LEAVE THIS EQUIPMENT IN AN UNCONDITIONED ENVIRONMENT WITH A STORAGE TEMPERATURE ABOVE 50° C (122°F). IT MAY DAMAGE THE EQUIPMENT.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer.

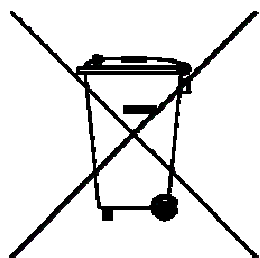
WEEE Statement

(Waste Electrical and Electronic Equipment)

The WEEE directive places an obligation on EU-based manufacturers, distributors, retailers and importers to take-back electronics products at the end of their useful life. A sister Directive, ROHS (Restriction of Hazardous Substances) compliments the WEEE Directive by banning the presence of specific hazardous substances in the products at the design phase. The WEEE Directive covers products imported into the EU as of August 13, 2005. EU-based manufacturers, distributors, retailers and importers are obliged to finance the costs of recovery from municipal collection points, reuse, and recycling of specified percentages per the WEEE requirements.

Instructions for disposal of WEEE by Users in the European Union

The symbol shown below is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.



Cybernet's Recycling Program

Helping Save our Environment

Send us your old Computer and if it has monetary value we'll apply that toward a purchase of a new computer!
If your computer doesn't have monetary value, we'll recycle it responsibly.

Step 1: log-on to www.cybernetman.com

Step 2: submit a request for an RMA number

Step 3: we will schedule a pre-paid FedEx pick-up at no cost to you

Please call 888-834-4577 for more details

CYBERNET
Space Saving Technology

5 Holland, Building 201, Irvine, CA 92618

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Introduction

Congratulations for purchasing the iOne-H6/H7. The LCD-PC i-One Series is your best Slim LCD PC choice. With the fantastic appearance and small form factor, it can easily be set anywhere. The feature packed platform also gives you an exciting PC experience.

LCD-PC i-One Series H6/H7 Specifications

Processor Support

2nd generation Intel® Core™ i3 i5 and Core™ i7 in the 1155 package up to 65W.

Motherboard Core Logic

Intel® H61 Express chipset (Sandy Bridge)/Intel® H77 Express chipset (Ivy Bridge)

Memory Support

DDR3 1066/1333 MHz SO-DIMM SDRAM (Un-buffered Non-ECC)
2 DDR3 1333 MHz SO-DIMM slots (8GB Max)

Video & Graphics for H6/H7

Intel® integrated H61/H77 Chipset with Intel® HD Graphics
Intel GMA HD/Intel Clear Video HD Technology
Built-in support for 1080p HD video playback, HDMI 1.4 & Blu-ray 3D support
Supports Microsoft® DirectX 10.1/DirectX 11, Shader Model 4.0 and OpenGL 3.0.
DVMT allocated as needed from 128MB to 1.70GB
Maximum display resolution 2560 x 1600.

Video & Graphics for H6G/H7G

Onboard NVIDIA GeForce GT 540M(630M) GPU
1.0GB sDDR3 128-bit RAM
1080p HD video playback, HDMI 1.4 & Blu-ray 3D support.
Supports Microsoft® DirectX 11, Shader Model 5.0 and OpenGL 4.1
Maximum display resolution 2560 x 1600.

Networking

Supports 2 PCI Express LAN 10/100/1000 Fast Ethernet by Realtek RTL8111E

Audio

2 internal speakers with 78dB+/-3dB @ 2.5W
HD Audio Codec Realtek® ALC892 Flexible 10-channel audio with jack sensing,
Compliant with Azalia 1.0 Spec

Hard Disk Drive

One 2.5" SATA / SATA II Hard Disk Drive - Any Capacity

Wall Mount

Support 75x75 / 100x100 VESA mounting hole.

Swivel Stand

System Base enables left/right rotation up to 60 degrees. tilt from -5 to 60 degrees.

LCD Panel

20" TFT LCD screen 16:9 format display

Expansion Slots

2 mini-PCle (One full size and one half size)

Front Lower Right Bezel

On Screen Display Buttons

Volume Adjust

Brightness Adjust

Contrast Adjust

Mute/Exit

Menu/Enter

Right Side Bezel

1 power button, 2 USB 2.0 ports (for mouse and keyboard)

Left Side Bezel

1 optical disk drive – 2.5" slim

Bottom I/O Panel

1 DC/IN port, 1 Serial port

1 DVI-I port, 1 HDMI port

2 LAN RJ-45, 2 USB3.0 ports, 2 USB2.0 ports

3 Audio jacks – Line in, Line Out and Mic in

4 TV Tuner ports - - Optional with TV Tuner (COAX Cable In, RCA Composite Video In,

Audio Left & Audio Right), 1 CMOS clear button, 1 Reset button

Power Supply

180 Watt Power Adapter, AC Input: 100~240V AC, 2.5A, 50-60Hz

DC Output: 19V, 9.5A only

Dimensions

491mm (H) x 258.5mm (W) x 460.5 mm (D) (with stand)

LCD-PC i-One Series H6/H7 Overview

Figure 1: Front View with Optional Webcam



Figure 2: Left side view with Optical Drive



Figure 3: Power Button and USB Ports



Figure 4: Touch Panel



Figure 5: IrDA Receiver for TV Tuner









On Screen Display Buttons

Figure 6: On Screen Display Buttons



There are six buttons on the lower bezel of the screen. From left to right they are:

					
Volume –	Volume +	Brightness –	Contrast +	Mute/Exit	Menu/Enter

Volume - Press to decrease volume.

Volume + Press to increase volume.

Brightness- Press first to select Brightness adjustment. Press again to decrease brightness. Press Contrast + to increase brightness. Brightness can also be adjusted in Menu Mode.

Contrast + Press first to select Contrast adjustment. Press again to increase contrast. Press Brightness – to decrease contrast. Contrast can also be adjusted in Menu Mode.

Mute/Exit Press once to toggle Mute On or Off.
Also functions as Exit button in the Menu Mode.

Menu/Enter Press once to get to On-Screen display Mode to allow various adjustments as listed below.
Also functions as the Enter or Select button in Menu Mode.

On Screen Display Usage



Figure 7: On Screen Display Icons

When the Menu button is pressed, the on-screen display appears as pictured above. When in Menu Mode you can move to the various icons with the – (left) or + (right) button. When you are at the icon you wish to adjust, press Menu again (Enter) to change the color of the icon and then toggle your desired adjustment by again pressing either – (left) or + (right). The screen will exit automatically in a matter of seconds if no selection is made.



Contrast Select to toggle greater or lesser contrast.
Brightness Select to toggle greater or lesser brightness.



Select to adjust the appearance of the screen to “Cool”.
Select to adjust the appearance of the screen to “Warm”.



Screen Horizontal and Vertical adjustment, OSD display time set up



Select to toggle through the languages offered.



Select to reset all LCD Display settings



OSD Firmware EEPROM version information



Screen mode selection for 16:9 or 4:3

Figure 8: Back view



Figure 9: Bottom Panel I/O Ports

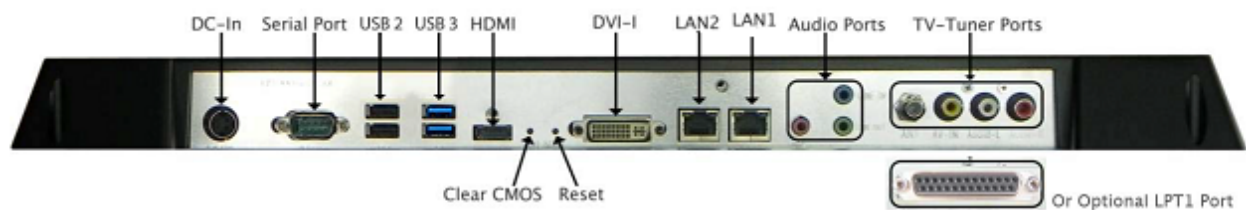
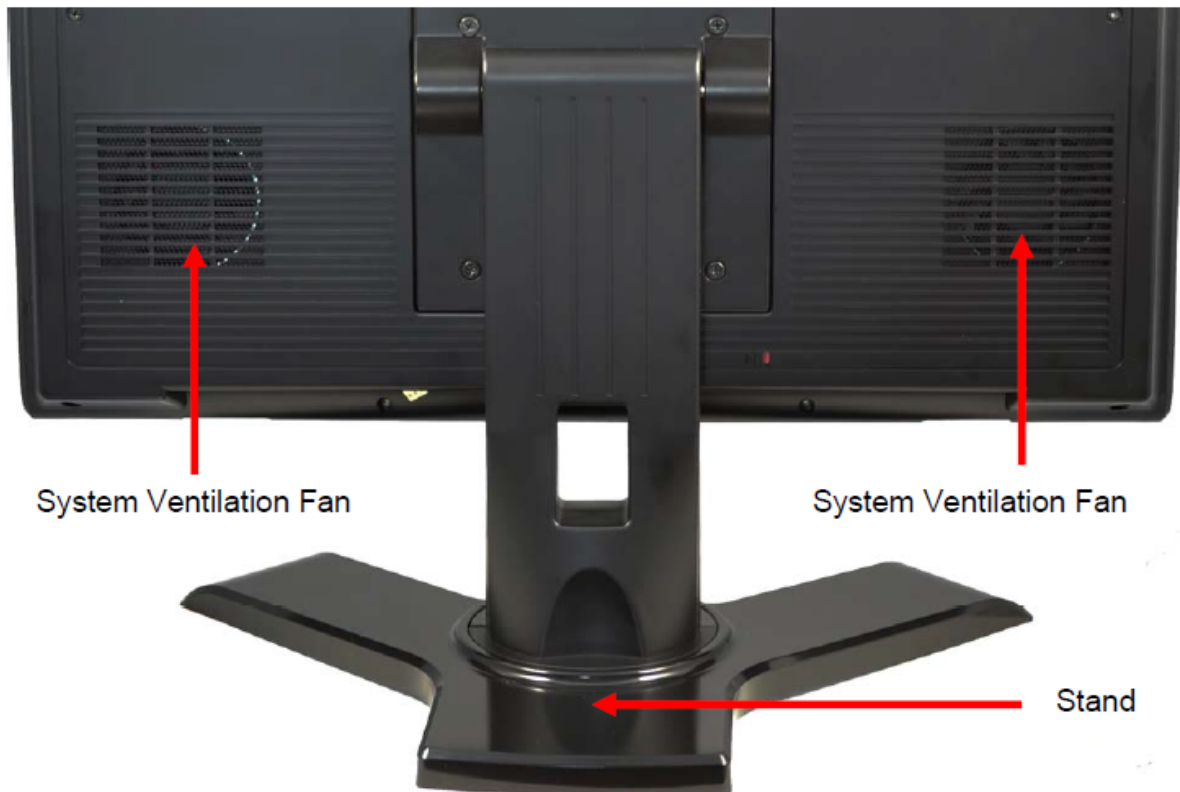


Figure 10: CPU Heat Sink Ventilation Fan



Figure 11: System Ventilation Fan, System Ventilation and Stand



System Assembly

This chapter provides system assembly information and procedures. While performing any installation, use a grounded wrist strap before handling computer components and carefully follow all installation procedures. Static electricity may damage the components.

This chapter will include instructions for how to install CPU, heat sink, memory modules, hard disk drive (HDD), optical disk drive (ODD), mini-PCIE card and IrDA module.

Necessary Tools



A Phillips screwdriver can be used to do most of the installation. One with a magnetic head is recommended. Applied maximum torque is 5kg.



Pliers can be used as an auxiliary tool to connect some connectors or cables.



Forceps/tweezers can be used to pick up tiny screws or set up the jumpers.



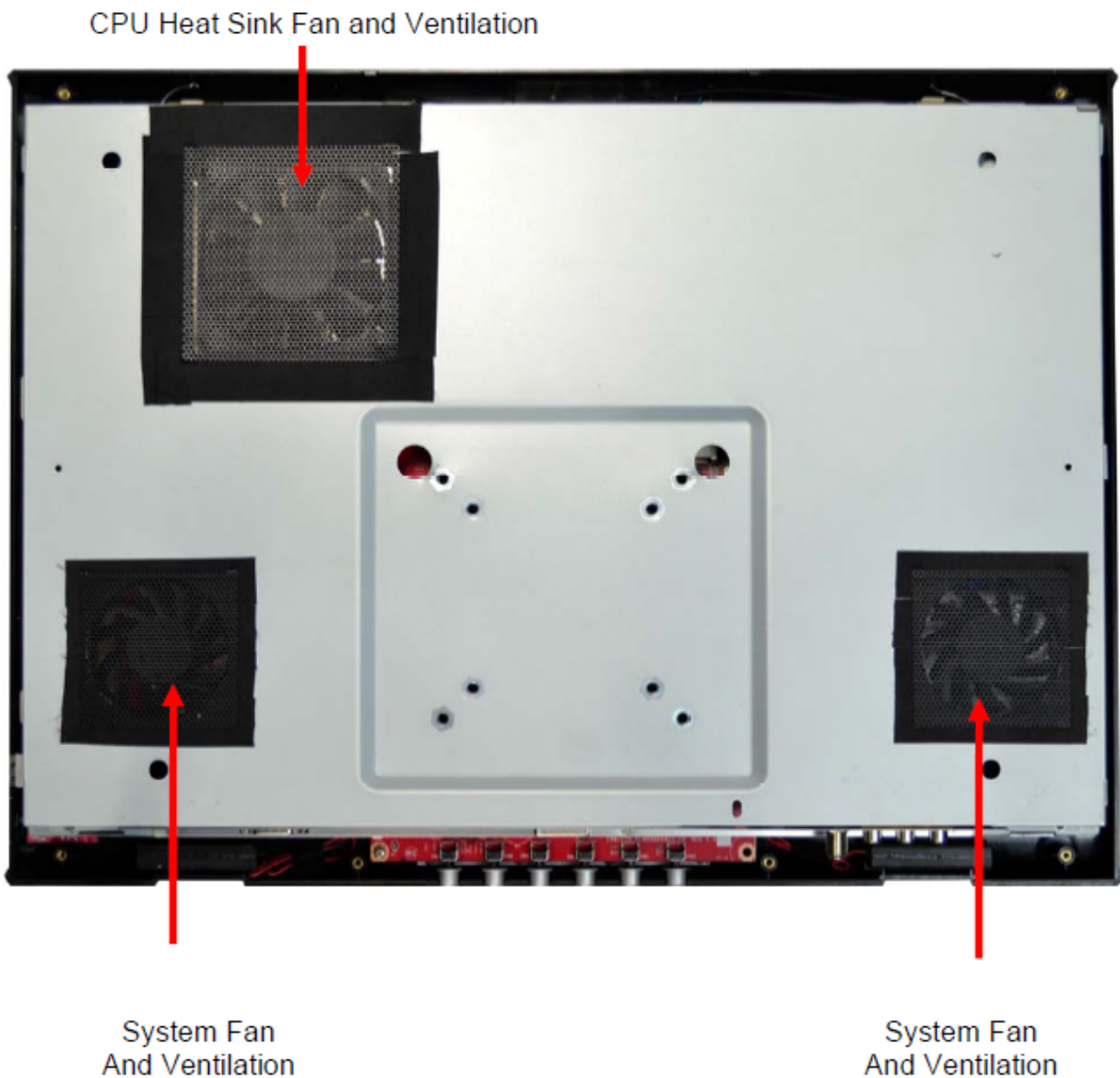
Rubber gloves can prevent injury from static charge.



Electric screwdriver can be used to secure all screws more quickly.

Orientation of Key Parts

Figure 12: System Fans, CPU Heat Sink Fan and Ventilation



i-One H6/H7 Disassembly

ORIENTATION: Presumes the top of the iOne is away from you and the bottom or I/O controller board is nearest you.

1. Place the iOne face down on a padded surface.
2. Remove the four screws from the base plate that attaches the stand to the LCD supporting the base while removing the last screw.
3. Remove the ten back bezel screws.
4. Carefully remove the back bezel and set aside.
5. Then remove the metal EMI shield by first removing the I/O cover by removing the three screws on the bottom and two screws on the face. Lift the plate out and up and set aside.
6. Remove the remaining eleven screws around the metal shield covering the motherboard.
7. First lift the metal shield and slide it to the right clearing the optical drive door (at the top right) then disconnect the system fan cable connector from the motherboard at System FAN1 connector at bottom left corner next to the com port. And System Fan2 connector at bottom right corner next to the LVDS connector.

Figure 13: Open system without GPU

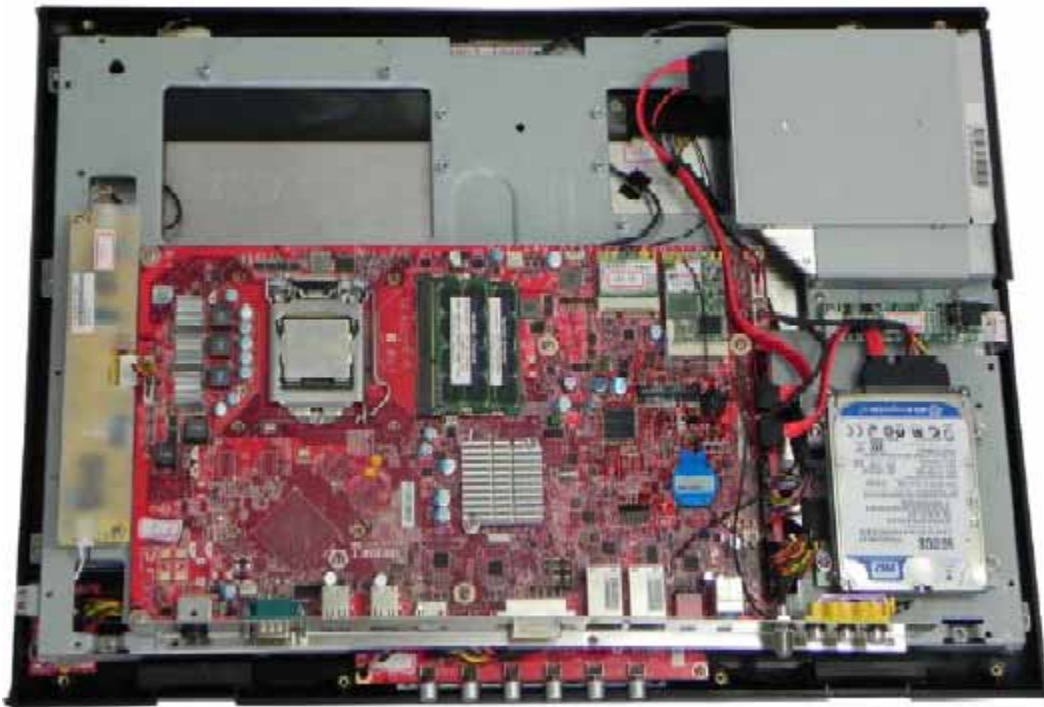
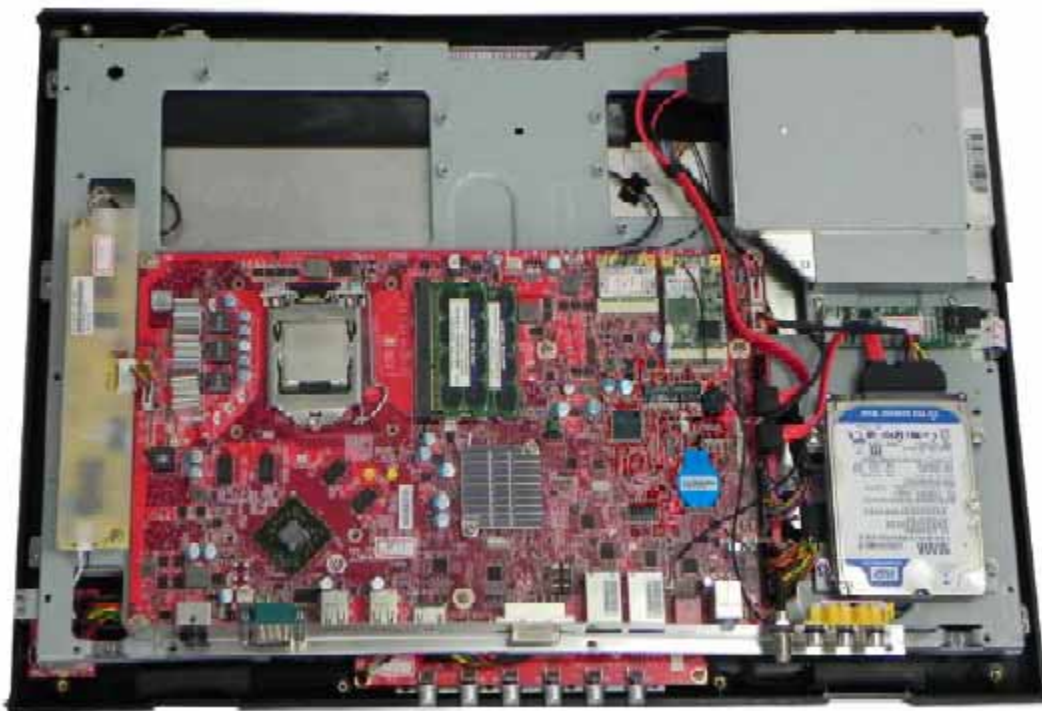


Figure 14: Open system with GPU

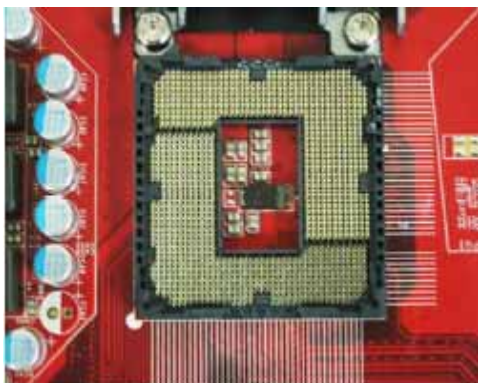


Installing the CPU

NOTE: If you purchased your iOne as a turn-key system, you must first follow the instructions to remove the heat sink in order to be able to reach the CPU. Systems purchased as 'bare bones' require the installation of the heat sink which is shipped in the accessories box with the unit.



1. The socket has a plastic cap on it to protect the pins from damage. This should remain in place until actually installing a CPU.



2. Raise the plastic cap to reveal the socket pins and open the cover by pushing down, pulling out and up on the lever beside the CPU socket.

Note: Do not touch the socket pins to avoid damage.



3. Install the CPU after confirming the direction for correct mating. Be sure to hold the CPU by the edge of the CPU base.

Note: The CPU can only be installed in the correct direction. Make sure the CPU pins are completely embedded into the socket. If not, take out the CPU with vertical motion and reinstall.

4. Close the cover and the lever to complete installation. Replace the heat sink.

NOTE: Any violation of the correct installation procedures may cause permanent damage to your motherboard.

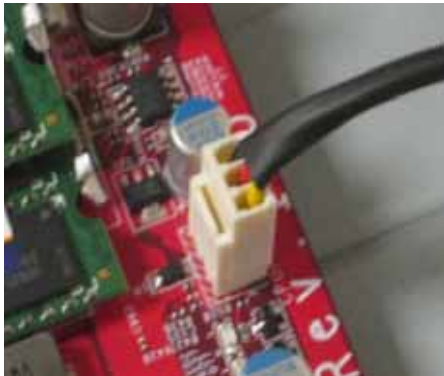
Installing the CPU Heat Sink



1. Put on the heat sink and make sure that the six screws fit the corresponding screw holes on the motherboard.
2. Alternate pressure while securing the Screws with balance.

Note: Do not fix any screws until the four screws are in their positions.

3. Secure the two screws at the opposite end near the top edge of the bezel.



4. Connect the power cable to CPU Fan on the Motherboard labeled CPU FAN 1 connector.

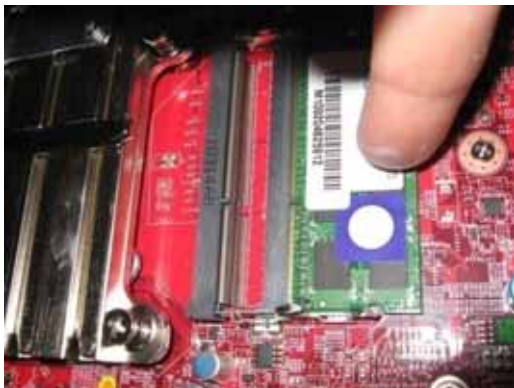
Installing the Memory Module DDR3 SO-DIMM



1. The memory module has only one notch and will only fit in the slot one way.



2. Insert the memory module into the DIMM slot at a 45° angle. Then push it in until the golden finger on the memory module is deeply inserted in the DIMM slot.



3. Press the memory module down and the metal clip at each side of the DIMM slot will automatically close.
4. Repeat the steps to install another memory module to meet your needs.

Installing the Hard Disk Drive



1. Install the hard disk with the HDD bracket and line up the hard disk bracket with four screw hole accordingly. Secure the four screws on the Hard Disk Drive. Connect the SATA cable to the motherboard.

SATA Cable



2. Connect the SATA cable, Connect the Power cable



3. Connect the other end of the SATA/Power cable to the Hard Disk Drive as shown.

SATA/Power Cable

Installing the Optical Disk Drive



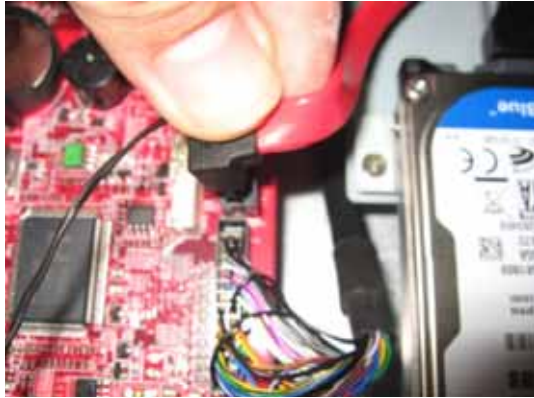
1. Remove back bezel as indicated in iOne Disassembly. Remove the Optical Disk Drive frame.



2. Put the ODD on the ODD frame and line up the four screw holes accordingly.



3. Secure the four screws on the ODD frame.



4. Connect the SATA cable. Connect the Power Cable.



5. Connect the other end of the cable to the ODD.



6. Install the ODD frame and line up the two screw holes over the Metal Support.
7. Secure the two screws to fix the ODD frame and complete the installation.

Installing the Mini-PCle Card (Optional)



1. The mini-PCle cards have only one notch and will only fit in one way. Insert the mini-PCle card at a 45° angle. Then, push it in until the golden fingers on the mini-PCle card are deeply inserted in the mini-PCle slots.



2. Press down the mini-PCle card and secure with the small screws.

Installing the Cover

1. Connect the power cables from both the System Fans to the mainboard BEFORE securing the metal cover and I/O plate with 18 screws.



2. Secure the plastic cover with eight screws.



3. Secure the stand with four screws.



System View



Cybernet e-recycling SOP



Cybernet has an e-recycling program that is very easy to use. Just follow the steps explained below or go to our website at www.cybernetman.com.

1. Request an RMA via phone, email or support request.
2. We will arrange a call tag to have the product picked up. Just have it packed and ready to ship.

We do the rest!