

CYBERNET ZPC-D5 Series 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®, Atom™ and Pineview® are registered trademarks of Intel Corporation.

PS/2 and OS®/2 are registered trademarks of International Business Machines Corporation.

Windows® 7/Vista/XP/NT/2000/98/95 are registered trademarks of Microsoft Corporation. Netware® is a registered trademark of Novell, Inc. 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. 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.

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



5 Holland, Building 201, Irvine, CA 92618

TABLE OF CONTENTS

<i>FCC-B Radio Frequency Interference Statement</i>	<i>i</i>
<i>Trademarks</i>	<i>i</i>
<i>Safety Instructions</i>	<i>ii</i>
<i>WEEE Statement</i>	<i>iii</i>
<i>Introduction</i>	<i>1</i>
<i>ZPC-D5 Series Specifications</i>	<i>1</i>
Processor Support	<i>1</i>
Chipset	<i>1</i>
Memory Support	<i>1</i>
Networking	<i>1</i>
Audio	<i>1</i>
Hard Disk Drive	<i>1</i>
Expansion Slots.....	<i>1</i>
Function keys.....	<i>1</i>
Right Side of System	<i>1</i>
Left side of System.....	<i>1</i>
System underneath	<i>2</i>
Back I/O ports	<i>2</i>
Power Supply	<i>2</i>
Dimensions	<i>2</i>
<i>ZPC-D5 Series Overview</i>	<i>3</i>
Keyboard Function keys	<i>8</i>
Basic operation.....	<i>10</i>
Using the AC adapter	<i>10</i>
Using the touchpad	<i>11</i>
Card reader	<i>12</i>
Wireless.....	<i>12</i>
<i>System Assembly</i>	<i>13</i>
Necessary Tools	<i>13</i>
Orientation of Key Parts.....	<i>14</i>
ZPC-D5 Disassembly	<i>15</i>
Installing the Memory Module DDR3 SO-DIMM	<i>16</i>
Installing the Hard Disk Drive	<i>18</i>

Installing the Mini-PCIe Card (Optional).....	19
Installing the Optical Drive (Optional)	20
All System View.....	24
Cybernet Recycling SOP.....	25

Figures

<i>Figure 1: Top View with Optical Disk Drive.....</i>	3
<i>Figure 2: Right side view with Optical Drive.....</i>	4
<i>Figure 3: Right side top view with Optical Drive</i>	4
<i>Figure 4: Left view and connectors</i>	5
<i>Figure 5: Back view and connectors</i>	5
<i>Figure 6: Bottom view</i>	6
<i>Figure 7: CPU Heat Sink Ventilation</i>	7
<i>Figure 8: Top view power button and LEDs.....</i>	7
<i>Figure 9: Function key (Fn).....</i>	8
<i>Figure 10: F1-F5 Function keys.....</i>	8
<i>Figure 11: Function key F8.....</i>	9
<i>Figure 12: Other Function keys</i>	9
<i>Figure 13: Orientation of Key Parts.....</i>	14

Introduction

Congratulations on purchasing the ZPC-D5. The ZPC-D5 Series is your best Keyboard PC choice. With the sleek design and small form factor, it can easily fit on any desktop. The feature packed platform gives you the power and performance you need.

ZPC-D5 Series Specifications

Processor Support

Intel® Atom™ D525. 1.8Ghz/1M Cache

Chipset

Intel® NM10 chipset

Memory Support

DDR3 800/1066/1333 MHz SO-DIMM SDRAM (Un-buffered Non-ECC)
1 DDR3 1333 MHz SO-DIMM slots (4GB Max)

Networking

Supports PCI Express LAN 10/100/1000 Fast Ethernet by Realtek RTL8111DL

Audio

2 internal speakers @ 1.5W, 1 mic.
HD Audio Codec Realtek® ALC662

Hard Disk Drive

One 2.5" SATA Hard Disk Drive - 500GB/320GB/250GB/160GB
Supports Ultra DMA 66/100 mode

Expansion Slots

2 Mini-PCIe

Function keys

There are eight Fn+Keys in keyboard.

Right Side of System

1 optical disk drive – 2.5" slim

Left Side of System

2 USB 2.0 ports.
3 Audio jacks – Line in, Line Out and Mic
1 MMC,SD,MS/PRO slot.

System Underneath

2 Mini-PCIe slot.
1 DDR3 slot.

Back I/O Ports

1 DC/IN port
1 HDMI
1 Video(D-Sub) port
1 LAN RJ-45 jack
2 USB ports
1 Security lock slot

Power Supply

40 Watt Power Adapter, AC Input: 100~240V AC, 1A, 50-60Hz
DC Output: 19V, 2.1A

Dimensions

43cm x 17.2cm x 4cm (W x D x H)

ZPC-D5 Series Overview

Figure 1: Top View with Optical Disk Drive



No.	Item	Detail
1	Keyboard	Standard 86-key USA Keyboard
2	LED indicators	LED state indicators for LAN, num/caps lock, etc.
3	Touchpad	Functions as optical mouse
4	Reset button or HDMI/LCD Switch button	4.1 When the computer crashes and there is no HDMI connector in the system, click this button to reboot the system. 4.2 When there is an HDMI connector in system, then switch major working screen toggle mode from LCD to HDMI (or HDMI to LCD). Screen resolution will be fixed at 1024x768.
5	 Power button	Turn computer on/off or enter Standby Mode
6	Optical Drive	DVD-RW

Figure 2: Right side view with Optical Drive



NO.	Item	Detail
1	DVD driver	Different computer models are equipped with different drives. The DVD drive supports CD or DVD discs and have burning (R) or repeated burning (RW) capabilities.
2	DVD indicators	This indicator lights when the DVD drive is running.
3	Open key (DVD)	Stops the DVD drive and opens the drive tray.

Figure 3: Right side Top view with Optical Drive



Figure 4: Left side view and connectors



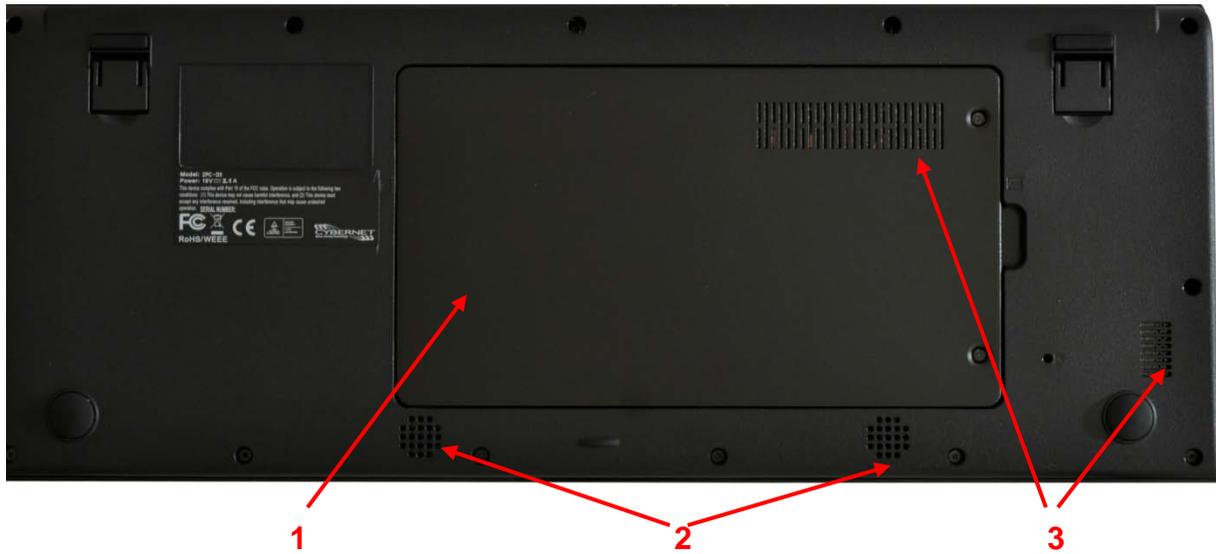
NO.	Item	Detail
1	USB ports	Connects USB devices
2	Mic-in	Connects microphone
3	Line-out	Connects earphone or sound box
4	Line-in	External audio input
5	Card reader	Supports MS/MS PRO/SD/MMC card

Figure 5: Back view and connectors



NO.	Item	Detail
1	Security lock	Slot for security lock
2	USB port x2	Connects USB devices
3	LAN	1GB RJ45 LAN port
4	Video output	External VGA monitor port
5	HDMI port	HDMI devices
6	DC-In	DC Power plug in
7	Thermal ventilation hole	Cooling vents for system

Figure 6: Bottom view

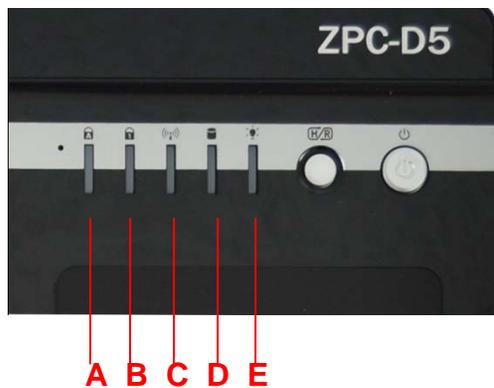


NO.	Item	Detail
1	HDD and RAM cover	Protects hard disk and RAM module
2	Speakers	Internal speaker, sound out
3	Thermal ventilation holes	Air enters here

Figure 7: CPU Heat Sink Ventilation



Figure 8: Top view power button and LEDs



- A. Caps Lock Activity (Blue)
- B. Number Lock Activity (Blue)
- C. Wireless Activity (Blue)
- D. Hard disk status indicator (HDD lights, Blue), when the drive is accessing data, the HDD light flashes.
- E. Power LED (Blue)

Keyboard Function Keys

There are eight function keys in the keyboard.

Figure 9: Function key (Fn)



Figure 10: F1-F5 Function keys



Figure 11: Function key F8



Figure 12: Other Function keys



Fn+Esc: Enter Suspend state.

Fn+F1: Press once to toggle Wireless On or Off.

Fn+F2: Press to increase volume.

Fn+F3: Press to decrease volume.

Fn+F4: Press once to toggle Mute On or Off.

Fn+F8: Press once to toggle Touch Pad On or Off.

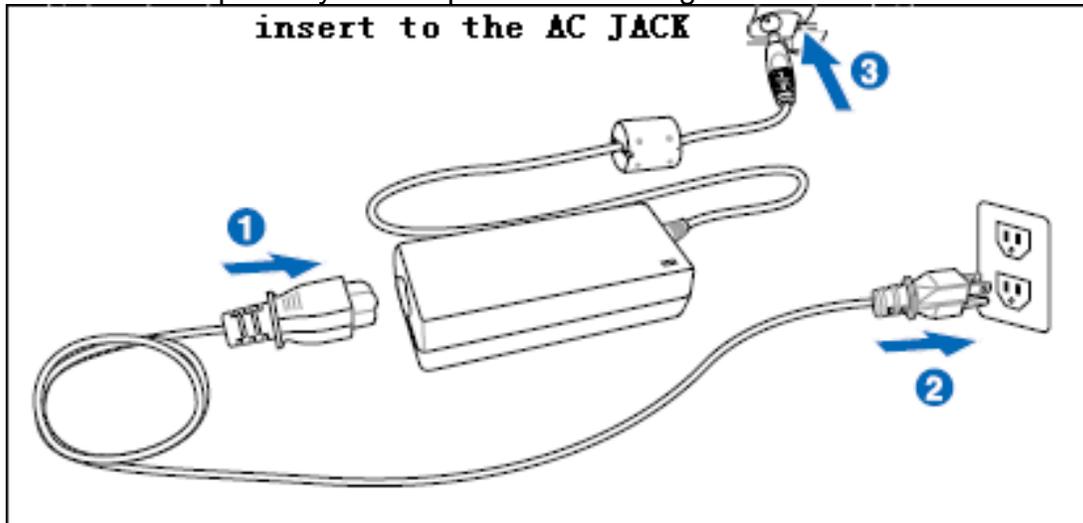
Fn+Ins: Press once to toggle Number Lock character capitalization or lowercase letter.

Fn+Del: Press once to toggle auto Screen Lock On or Off.

Basic operation

Using the AC adapter

Connect the AC Adapter to your computer as following.



Turning the power on and off

These are only quick instructions for using your new PC. Read the full manual for detailed information.

- A. Connect the AC power cord to the Adapter.
- B. Connect the AC adapter to the unit's DC-in socket.
- C. Turn ON the power switch.

Note:

Damage may occur if you use a different adapter to power the computer. You may damage the computer with a faulty AC-DC adapter.

Press the power switch on the left of the computer to shut it down, or:

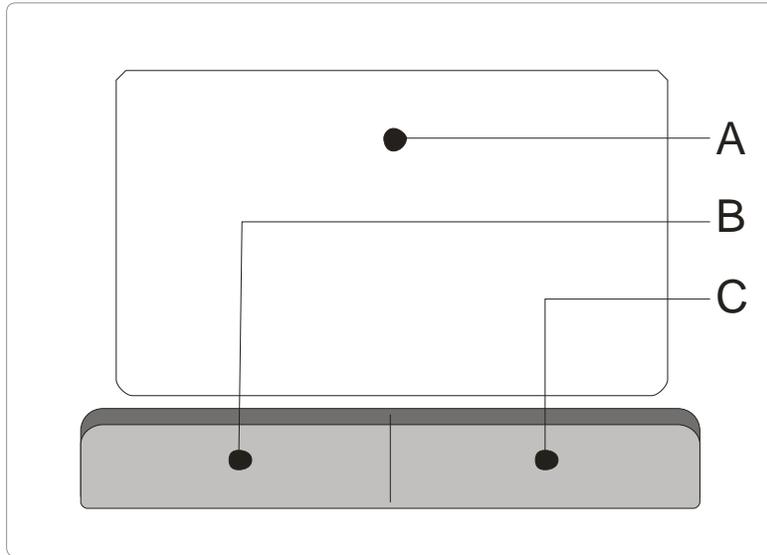
Go to [Start] - [Turn Off Computer], select [Shutdown].

Using the Touchpad

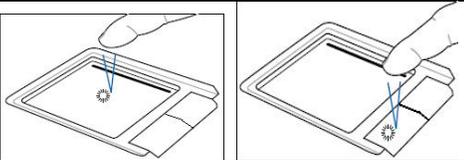
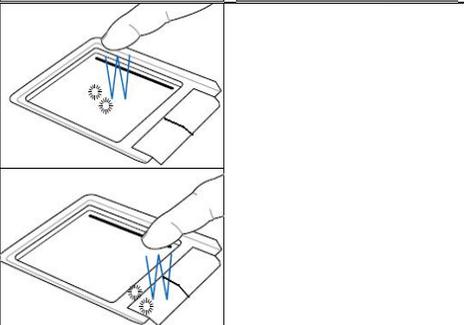
Use the touchpad to move the cursor on the display and perform normal computer operations.

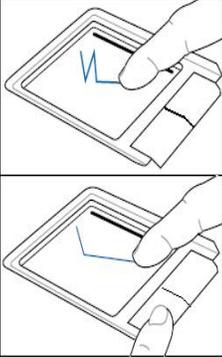
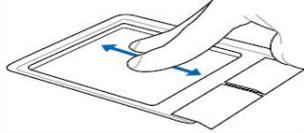
NOTE:

By design, the touchpad is to be used with a finger tip only. Therefore, do not use any implement which could cause damage to the work surface.



- A. Work Surface (Touchpad)
- B. Left Button
- C. Right Button

Function	Operation
Moving the cursor	Move the tip of your finger lightly over the work surface
Tapping/Clicking	
Double-Clicking Double-Clicking	

<p>Dragging</p>	 <p>Two quick taps, but on the second tap leave your finger down (applying pressure) and move it on the work surface. Or while holding down the button, move your finger on the work surface.</p>
<p>Scrolling</p>	 <ol style="list-style-type: none"> 1. Select the screen you want to scroll. 2. Position the cursor over the area you want to scroll. 3. Trace a line around the right of the touchpad.

Card Reader

This unit supports MS/MS pro /SD/MMC cards.

Inserting the card:

Insert the card firmly with the label side facing up and with the cut corner in front.

NOTE: Make sure you insert the card in the proper direction. If the card is inserted in the wrong direction, the card or slot may be damaged.

Wireless

1. Press Fn+F1 to activate the wireless LAN function.
2. Select the wireless access point you want to connect to from the list and click Connect to build the connection. Ensure that the box before “Enable wireless” is checked.
3. When connecting, you may have to enter a password.
4. After a connection has been established, you can see the wireless signal strength bars in the Notification area.

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 includes instructions for how to install memory modules, the hard disk drive (HDD), optical disk drive (ODD), and the Mini-PCIe card.

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.



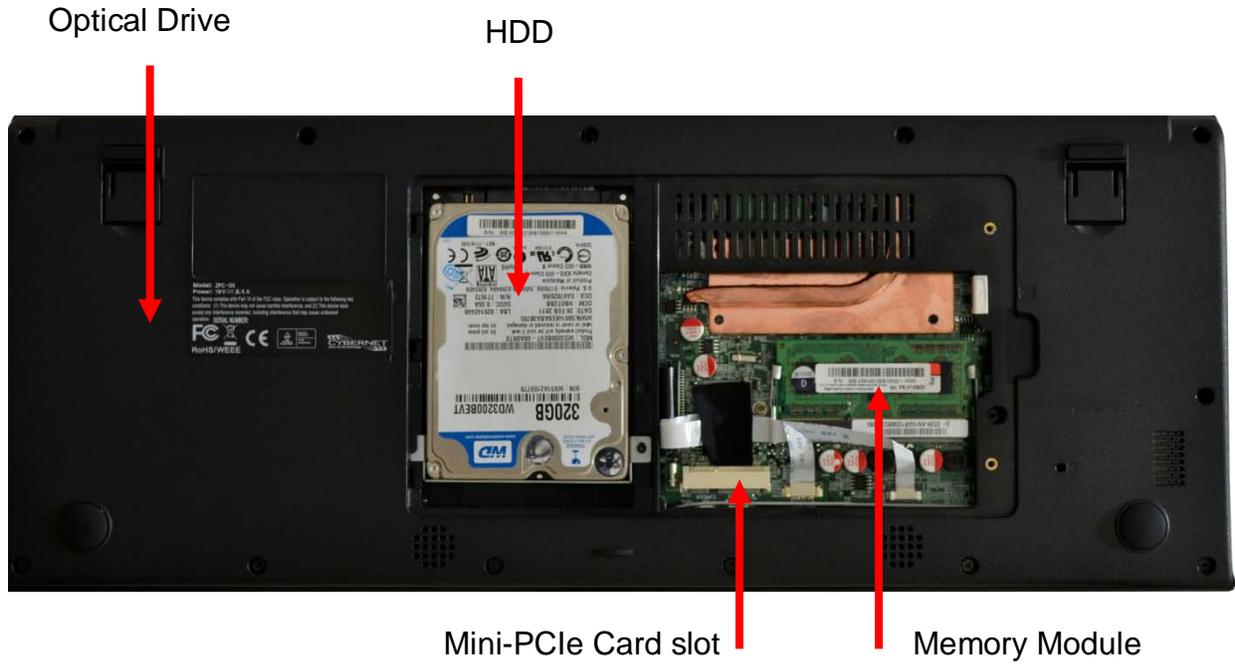
Rubber gloves can prevent injury from static charge.



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

Orientation of Key Parts

Figure 13: Orientation of Key Parts: HDD and Optical Drive, Memory Modules and Mini-PCle



ZPC-D5 Disassembly

ORIENTATION: Presumes the back view of the ZPC is away from you and the bottom view is nearest you.

1. Place the ZPC keyboard face down on a padded surface.
2. Remove the two screws.
3. Carefully remove the bottom view cover and set aside.



Loosen two screws to remove cover.

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.



Installing the Hard Disk Drive

1. Slide the hard disk drive into the frame (SATA connector) and line up the one screw hole accordingly. Secure the one screw on the system.



Insert into the connector.

Check screw hole location.

2. Screw the one screw on the system as picture. disconnect the SATA connector from the mainboard and set aside in order to gain access to the Hard Disk Drive slot.



Installing the Mini-PCle Card (Optional)

1. The Mini-PCle card has only one notch and will only fit in one way. Insert the Mini-PCle card into the Mini-PCle slot at a 45° angle. Then push it in until the golden finger on the Mini-PCle card is deeply inserted in the Mini-PCle slot.



2. Press down the Mini-PCle card and secure the screw to complete the installation.



Installing the Optical Drive (Optional)

1. Using a screwdriver, press down adjacent to the 4 keys at the locations shown below to push back restraining clips and release the keyboard matrix.



2. After opening the keyboard, remove it as shown below.



3. Loosen the screws and remove the Memory module, Mini-PCIE and HDD as shown below.

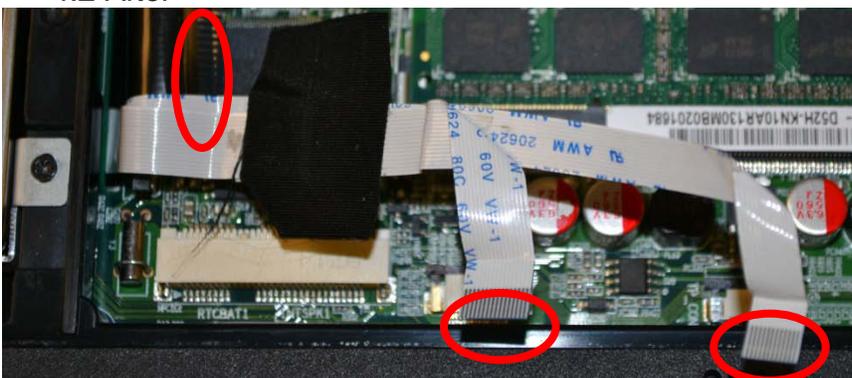


4. Loosen these three connector cables:

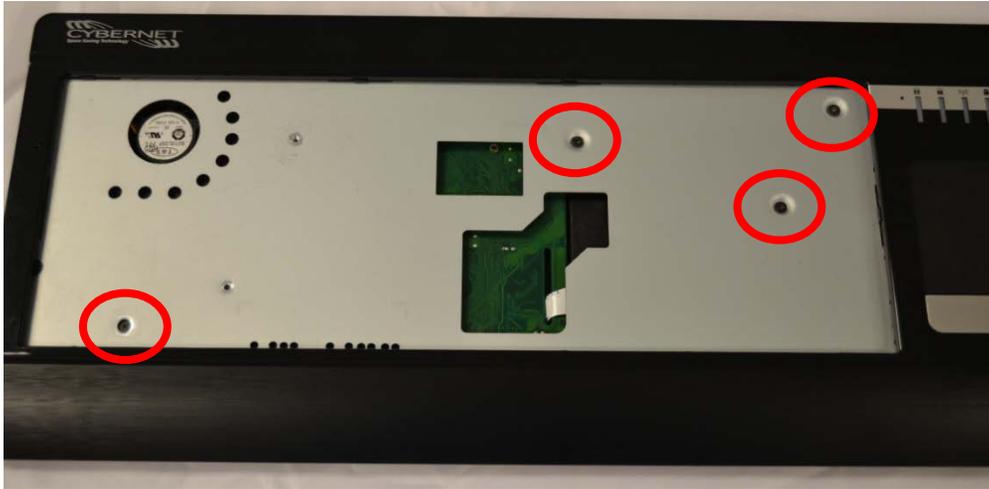
4.1 Before



4.2 After



5. Remove the keyboard module and loosen these 4 screws as shown below.



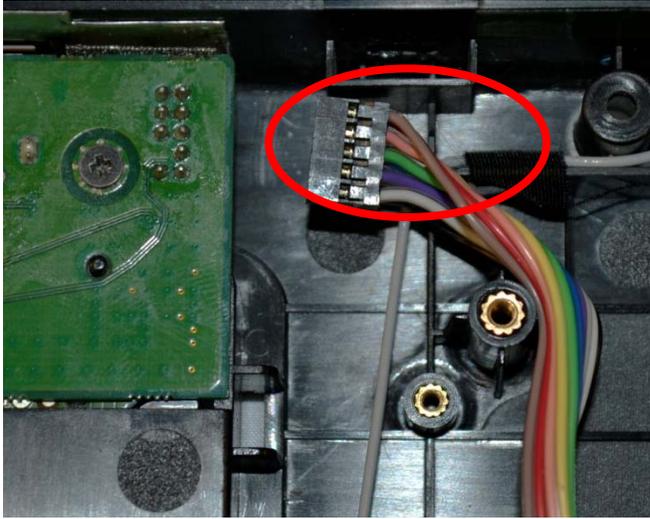
6. Remove top case as shown below.



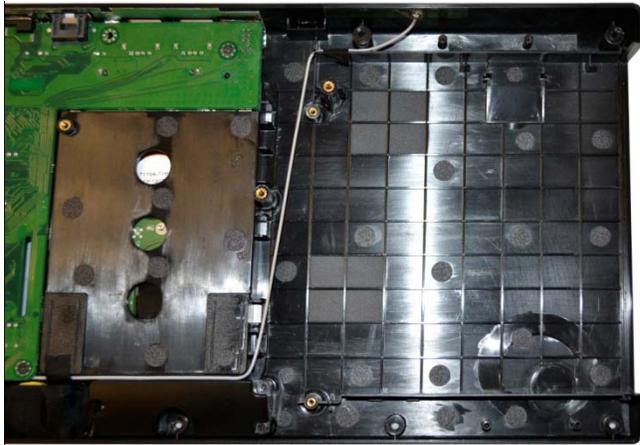
7. Right side-Optical Drive: loosen the cable connector and remove one screw.



Then detach the Optical Drive cable connector:



8. View inside with Optical Drive removed:



Detached Optical Drive:



All System Views

Front:



Left Side:



Right Side:



Back:



Cybernet e-recycling SOP



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!
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CYBERNET
Space Saving Technology
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The flyer also features a small image of a computer keyboard with a green key that says "Go Green" and a recycling symbol.

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!