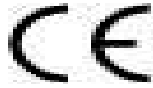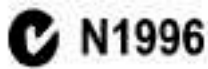# CYBERNET
Space Saving Technology

ZPC-H6 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.
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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.
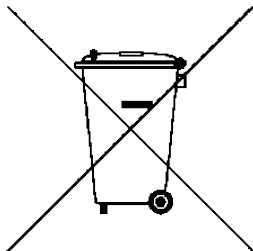
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Figures

Introduction

Congratulations for purchasing the ZPC-H6. The ZPC-H6 Series is your best Keyboard 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.

ZPC-H6 Series Specifications

Processor Support

2nd generation Intel® Core™ i5/i3/Pentium/Celeron, 5 GT/s System Bus, 1155-pin socket up to 45W. Intel® Sandy Bridge Processor.

Chipset

Intel® H61 Express Chipset

Memory Support

2 x DDR3 1066/1333 MHz SO-DIMM sockets, populated up to 8GB Max.

Video & Graphics

Intel® integrated H61 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.

Networking

Support 1 x 10/100/1000 Fast Ethernet by Realtek RTL8111E.

Audio

2 internal speakers @ 1.5W, 1 mic.
HD Audio Codec Realtek® ALC661

Hard Disk Drive

One 2.5" SATA Hard Disk Drive - 500GB/320GB/250GB/160GB or SSD.

Expansion Slots
Two Mini PCI-e (1xFull-size and 1xHalf-size)

Right Side of System
1 optical disk drive – 2.5" slim

Left Side of System
1 USB 2.0 ports.
1 MMC,SD,MS/PRO slot Inside of System

2 x Mini-PCIe slot.
1 x DDR3 slot.

Back I/O Ports
1 DC/IN port
1 HDMI
1 Video(D-Sub) port
1 LAN RJ-45 jack
2 USB 2.0 ports
2 USB 3.0 ports
1 COM port
1 Audio Jack (Line-out & MIC at rear)
1 S/PDIF Connector
1 Security lock slot
1 TV-Tuner Port (Optional) with 1*RCA Jack + Coax cable

Power Supply
120 Watt Power Adapter, AC Input: 100~240V AC, 1A, 50-60Hz
DC Output: 19V, 6.32A

Dimensions

46.5cm x 19.5cm x 35cm (W x D x H)

ZPC-H6 Series Overview

Figure 1: Top View with Optical Disk Drive

No.	Item	detail
1	LED indicators	As follows" LED state indicators"
2	Keyboard	Standard 101 key USA Keyboard
3	Optical Drive	DVD-RW

Figure 2: Right side view with Optical Drive

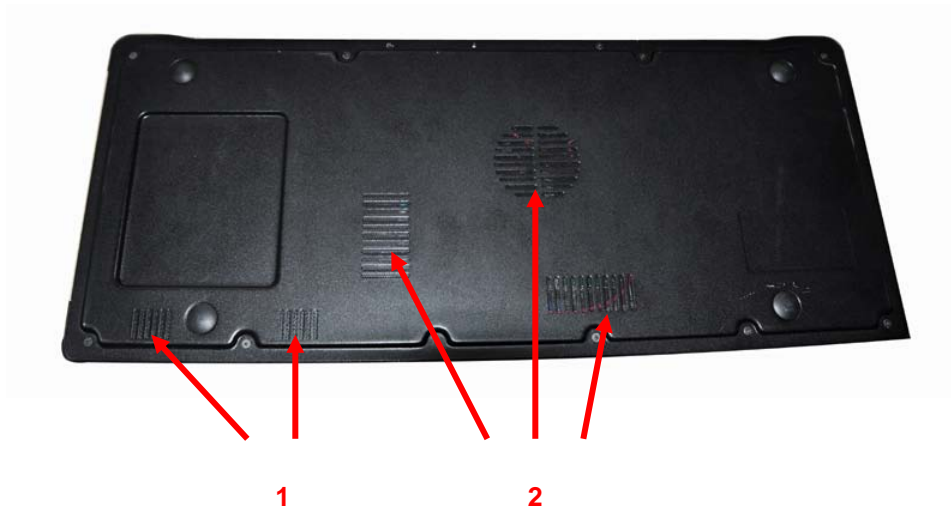| NO.	Item	Detail
1	DVD driver	Different computer models are equipped according to different drives. DVD drive supports CD or DVD discs and have burned (R) or repeated burning (RW) capabilities.
2	DVD indicators	This indicator lights when the DVD drive is running.
3	Open key (DVD)	Stop the DVD drive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

Figure 3: Right side Top view with Optical Drive

Figure 4: Left view and connectors function

NO.	Item	Detail
1	Power button	Turn computer on/off or enter Standby Mode
2	Card Reader	Supports MS/MS PRO/SD/MMC card
3	USB ports	Connects USB devices

Figure 5: Bottom view

NO.	Item	Detail
1	Speakers	Internal speaker, sound out
2	Thermal ventilation hole	Air goes in

Figure 6: Back view and connectors function


NO.	Item	Detail
1	Security lock slot	Kensington-type lock slot
2	Com port	Connects to device with Com interface
3	SPDIF	Digital audio interconnect used in your audio equipment over relatively short distances. SPDIF interconnects components in home theaters and other digital high fidelity systems.
4	Line-out	Connects headphone or speakers
5	Mic-in	Connects microphone
6	USB 2.0 port x2	Connect USB devices
7	LAN	1Gb RJ45 LAN port
8	USB 3.0 port x2	Connect USB devices
9	Video output	External VGA monitor port
10	HDMI port	HDMI devices
11	DC-In	DC Power plug in
12	Thermal ventilation hole	Cooling vents for System

Figure 7: CPU Heat Sink Ventilation Fan
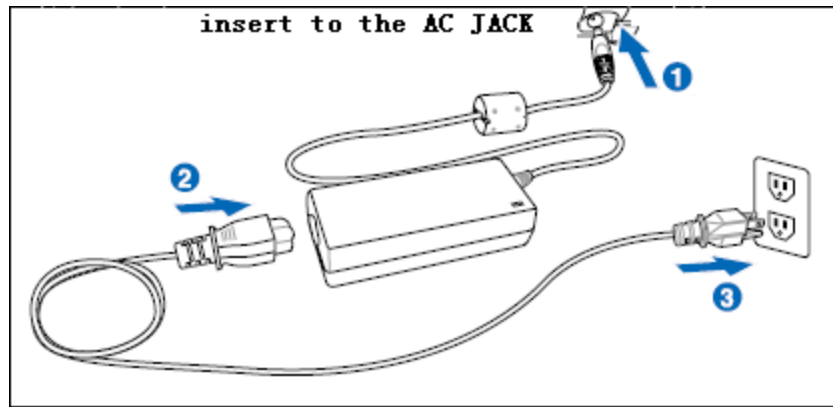

Figure 8: Top view power button and LEDs
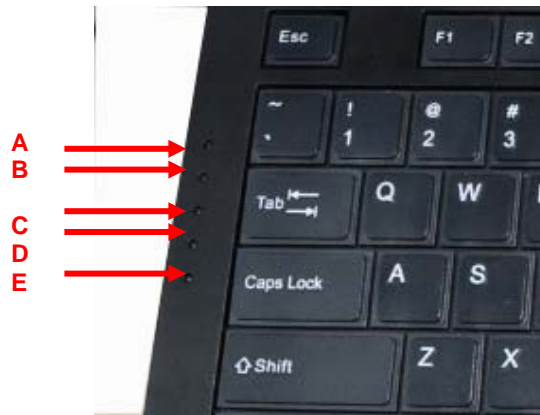
A. Power LED（Blue）

B. Hard disk status indicator (HDD lights) （Blue, when the drive is accessing data, HDD light flashes

C. Scroll Lock

D. Number Lock Activity (Blue)

E. Caps Lock Activity (Blue)

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. Install the adapter to the System..
B. Connect the AC power adapter.
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].

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 memory modules, hard disk drive (HDD), optical disk drive (ODD), 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.

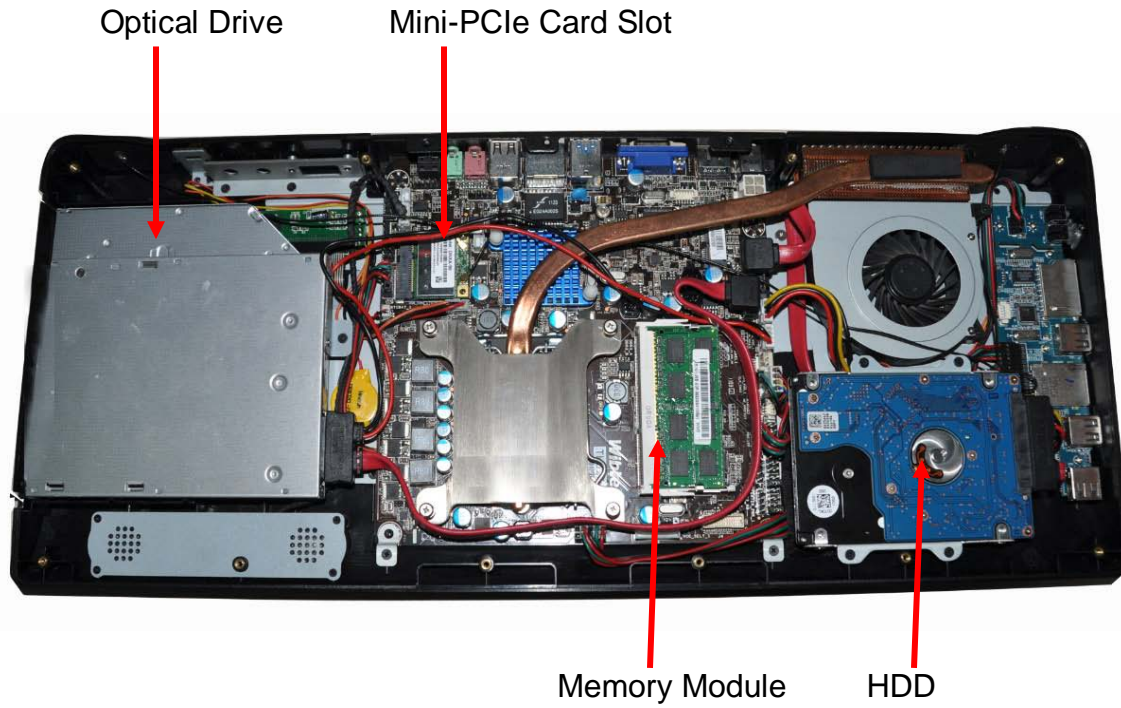Forceps/tweezers can be used to pick up tiny screws or set up the jumpers.

Rubber gloves can prevent injury from static charge.

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

Orientation of Key Parts

Figure 9: Orientation of Key Parts HDD and Optical Drive Memory Modules and Mini-PCIe

Optical Drive   Mini-PCIe Card Slot

Memory Module   HDD

ZPC-H6 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 ten bottom view screws.

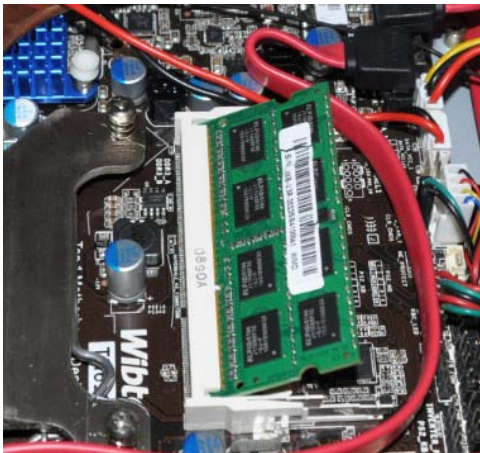3.   Carefully remove the bottom view cover and set aside.
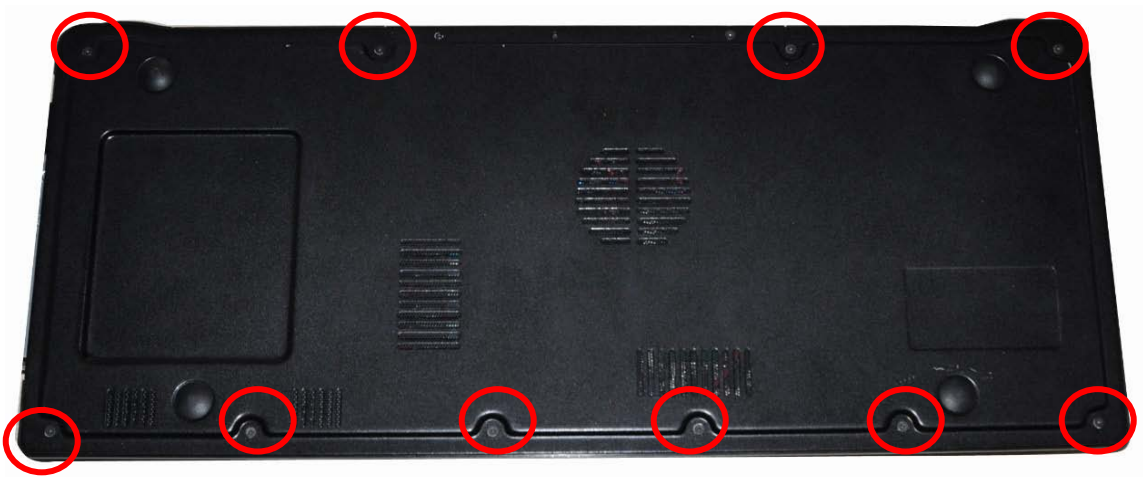
## *Installing the Memory Module DDR3 SO-DIMM*

1. The memory module has only one notch and will only fit in the slot one way.
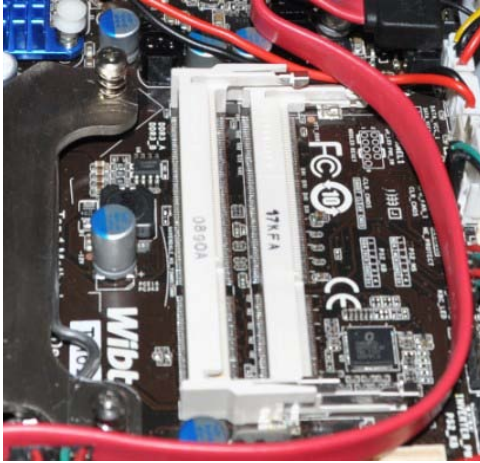
2. Insert the memory module into the DIMM slot at a 45° angle. Then push it in until the golden finger on the memory module is deeply inserted in the DIMM slot.
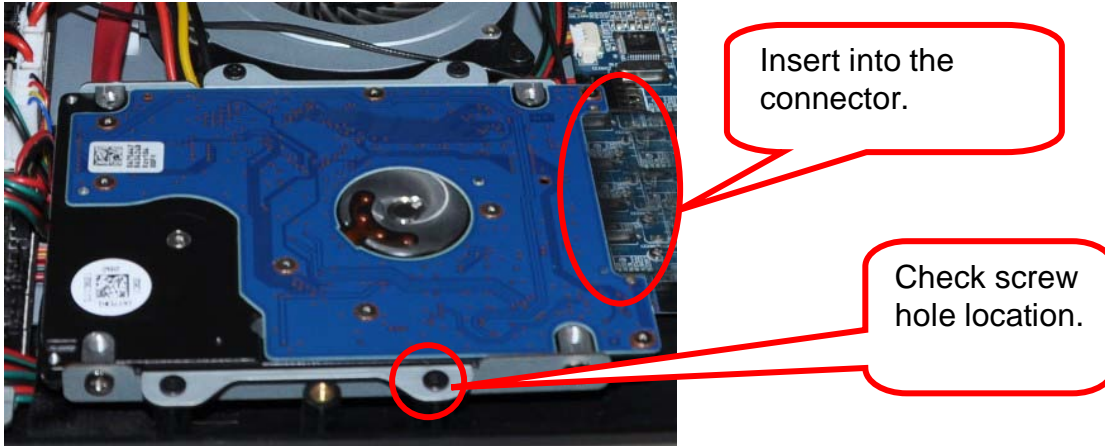
3. Press the memory module down and the metal clip at each side of the DIMM slot will automatically close.
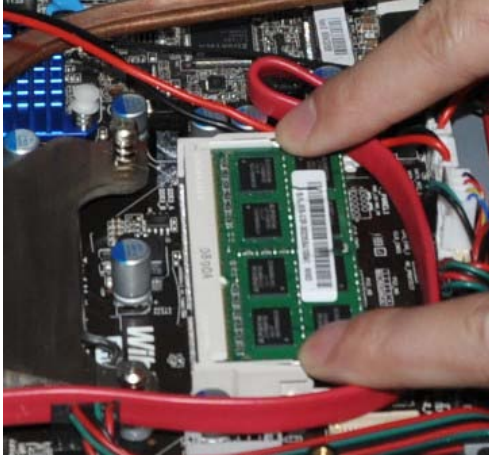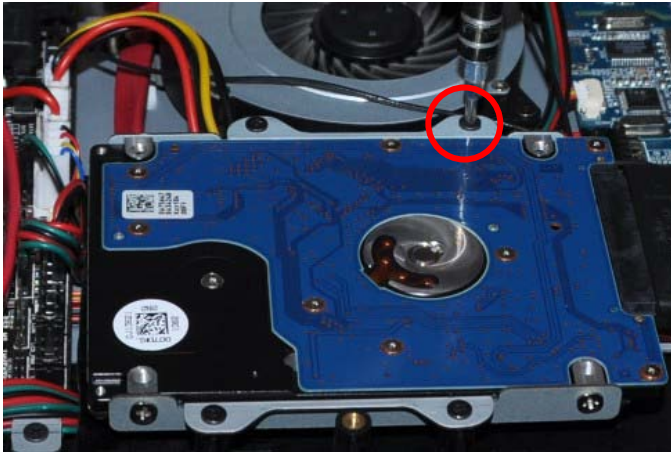
Installing the Hard Disk Drive

1. Slide the hard disk drive into the frame (SATA connector) and line up the four screw hole accordingly.

Insert into the connector.

Check screw hole location.

2. Screw the four screws on the system as picture.

Installing the Mini-PCIe Card (Optional)

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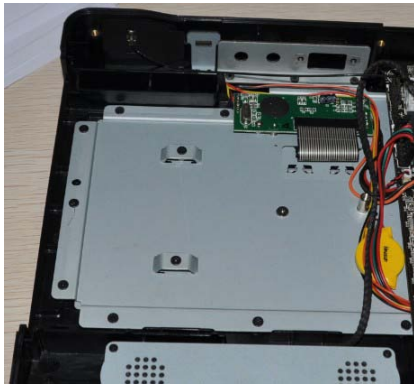

2. Press down the Mini-PCIe card and secure the screw to complete the installation.

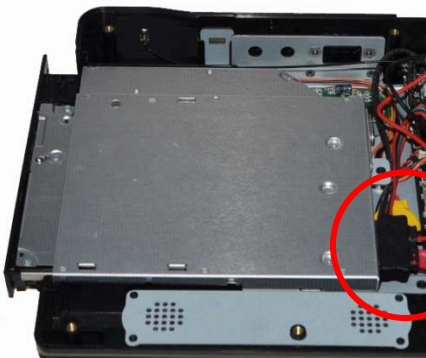## *Installing the Optical Drive (Optional)*

1. Inside View without Optical Drive.

2. Fasten the screw to the frame.

3. Then insert the Optical Drive cable connector.

All System views

Front:

Left Side:

Right Side:

Back: