

# LPC-1007

10.4" Fanless Multifunctional Touch Panel Computer

## Quick Reference Guide

1<sup>st</sup> Ed – 18 January 2013

### Copyright Notice

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## FCC Statement



THIS DEVICE COMPLIES WITH PART 15 FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE.
- (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS "A" DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES.

THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. 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.

OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

## A Message to the Customer

### ***Avalue Customer Services***

Each and every Avalue's product is built to the most exacting specifications to ensure reliable performance in the harsh and demanding conditions typical of industrial environments. Whether your new Avalue device is destined for the laboratory or the factory floor, you can be assured that your product will provide the reliability and ease of operation for which the name Avalue has come to be known.

Your satisfaction is our primary concern. Here is a guide to Avalue's customer services. To ensure you get the full benefit of our services, please follow the instructions below carefully.

### ***Technical Support***

We want you to get the maximum performance from your products. So if you run into technical difficulties, we are here to help. For the most frequently asked questions, you can easily find answers in your product documentation. These answers are normally a lot more detailed than the ones we can give over the phone. So please consult the user's manual first.

To receive the latest version of the user's manual; please visit our Web site at:

<http://www.avalue.com.tw/>

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# 1. Getting Started

## 1.1 Safety Precautions

### Warning!



Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

### Caution!



Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

## 1.2 Packing List

- 1 x LPC-1007 10.4" Fanless Multifunctional Touch Panel Computer
- 1 x DVD-ROM contains the followings:
  - User's Manual (this manual in PDF file)
  - Ethernet driver and utilities
  - VGA drivers and utilities
  - Audio drivers and utilities
  - WiFi drivers and utilities
  - Touch controller drivers and utilities
  - Chipset driver and utilities
- 1 x Power Adapter
- 1 x Stand for Panel PC (optional)



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

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## 1.3 System Specifications

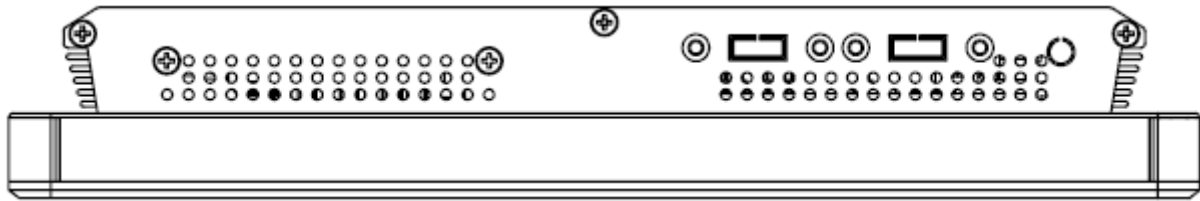
Panel	
LCD size	10.4", 4:3
Display Type	XGA TFT
Resolution	1024 x 768
Pixel pitch	0.0685mm(H) x 0.2055mm(V)
Luminance	500 cd/m <sup>2</sup>
Contrast ratio	1200
Viewing angle	88(U), 88(D), 88(L), 88(R)
Response time	25 ms
Backlight	LED
Touch Type	5 Wires resistive
Touch Light transmission	80%
Touch Interface	USB
System	
Board	EBM-CDV
CPU	Onboard Intel® Cedarview D2550 CPU
System Chipset	Intel NM10 Express
I/O Chip	E/C IT8518E
System Memory	One SODIMM socket supports up to 4GB DDR3 800/1066 SDRAM
SSD	One CF socket by IDE secondary slave channel supports Type I / II Compact Flash Card
Hard Driver Bay	One 2.5" SATA HDD
Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
H/W Status Monitor	Monitoring system temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats
Expansion	1 x Mini PCIe slot, optional supports mSATA
Rear I/O	
Serial Port	1 x RS-232/422/485(Default is RS-232, RS-422,485 changed by jumper)
Ethernet	1 x RJ-45
HDMI	1 x HDMI
Audio port	1 x Line-out
USB	2 x USB 2.0
Mouse & K/B	1 x PS/2 KB & MS
Display	
Chipset	Intel Cedarview integrated graphics

## LPC-1007

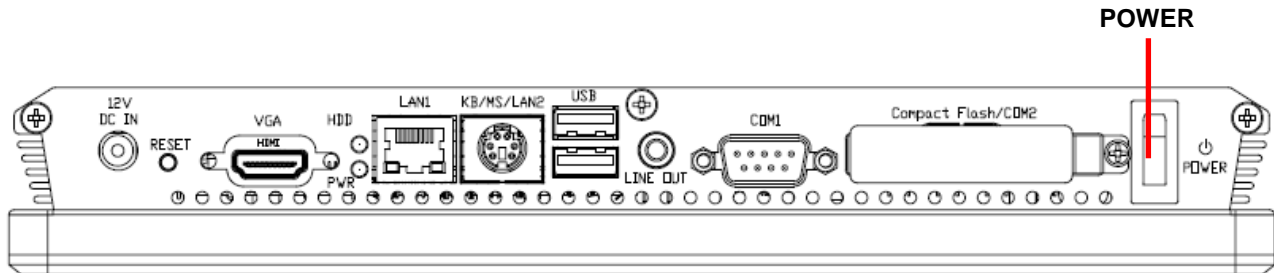
<b>Dual Display</b>	HDMI + LVDS
<b>Audio</b>	
<b>AC97 Codec</b>	Realtek ALC 892 supports 5.1CH Audio
<b>Audio Interface</b>	Connector: Line out
<b>Ethernet</b>	
<b>LAN Chip</b>	Intel® 82574L Gigabit LAN, Optional Dual LAN
<b>Ethernet Interface</b>	10/100/1000 Base-Tx Fast Ethernet compatible
<b>Mechanical &amp; Environmental</b>	
<b>Color</b>	Front Silver & Rear panel Black
<b>Mounting</b>	Wall/Stand/VESA 75 mm x 75 mm
<b>Power Input</b>	100~250 Vdc/ 47~63 Hz
<b>Power Output</b>	+12 Vdc / 5 A (60W)
<b>ACPI</b>	n/a
<b>Power Type</b>	AT/ATX
<b>Operating Temp.</b>	0 to 40°C
<b>Storage Temp.</b>	-20 to 60°C
<b>Operating Humidity</b>	5%~90% relative humidity, non-condensing
<b>Dimensions</b>	259 x 196 x 41 mm
<b>Weight</b>	2.11 Kgs

## 1.4 System Overview

### 1.4.1 Front View



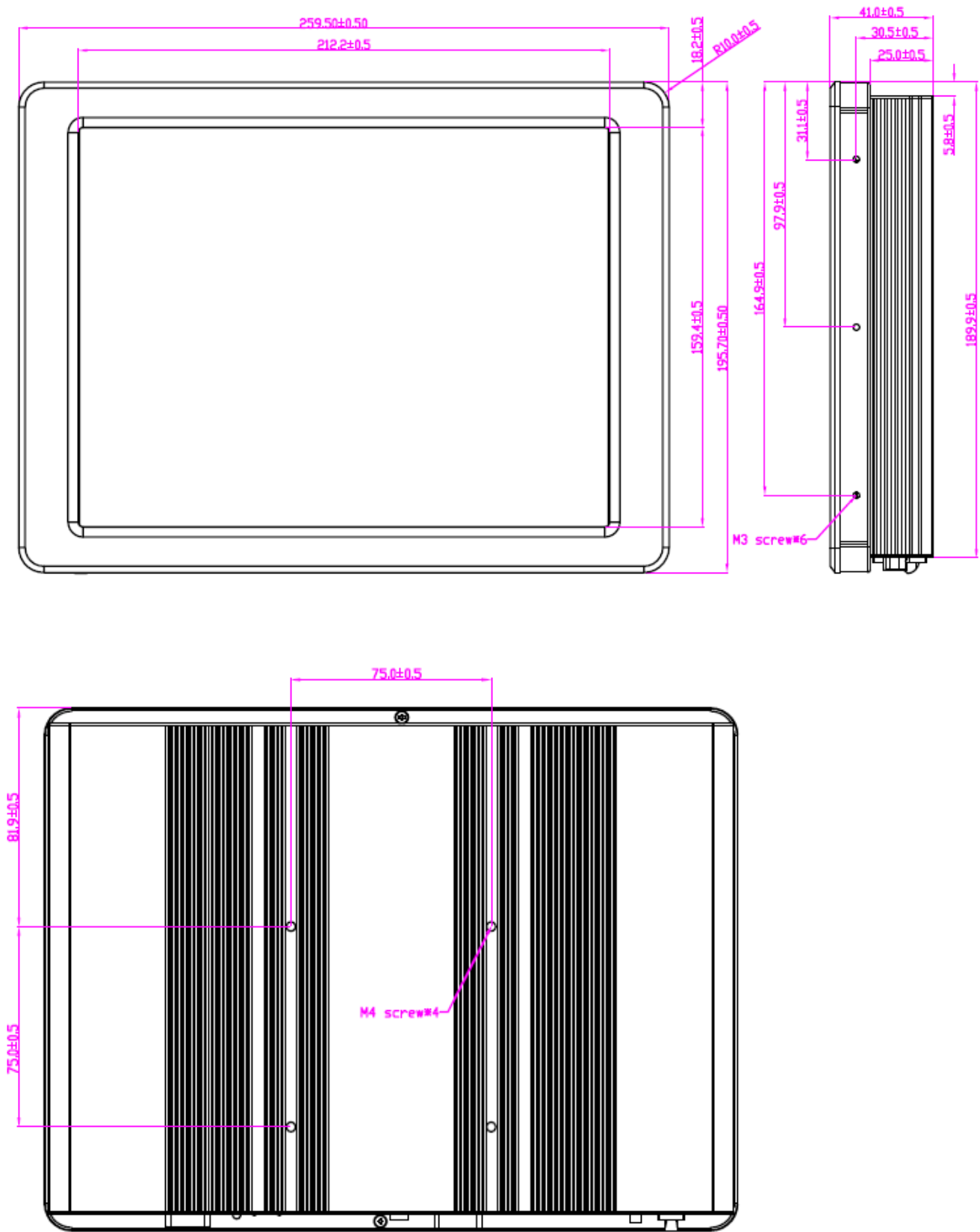
### 1.4.2 Rear View



## Connectors

Label	Function	Note
<b>POWER</b>	Power on button	
<b>CF</b>	CF Type I/II Socket with Ejector	Optional for 2 <sup>nd</sup> COM port
<b>COM</b>	Serial port	DB-9 male connector
<b>LINE OUT</b>	Line-out audio jack	
<b>USB</b>	2 x USB 2.0 connector	Dock USB
<b>LAN1</b>	RJ-45 Ethernet connector 1	
<b>KB/MS</b>	PS/2 connector	
<b>(LAN2)</b>	Optional 2nd LAN	
<b>HDD</b>	HDD indicator	
<b>PWR</b>	System power indicator	
<b>HDMI</b>	HDMI connector	
<b>RESET</b>	Reset button	
<b>DC-IN</b>	DC Power-in connector	

1.5 System Dimensions



(Unit: mm)



## 2. Hardware Configuration

Please refer to EBM-CDV Quick Installation Guide or User's Manual for advanced information.

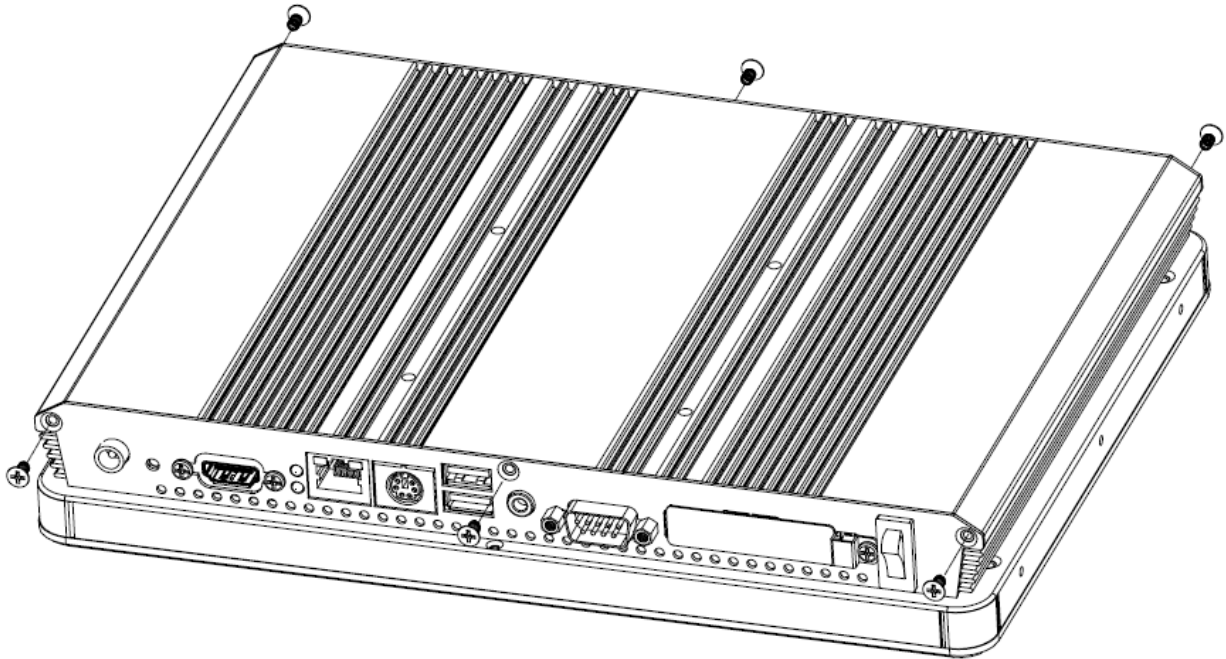


**Note:** If you need more information, please visit our website:

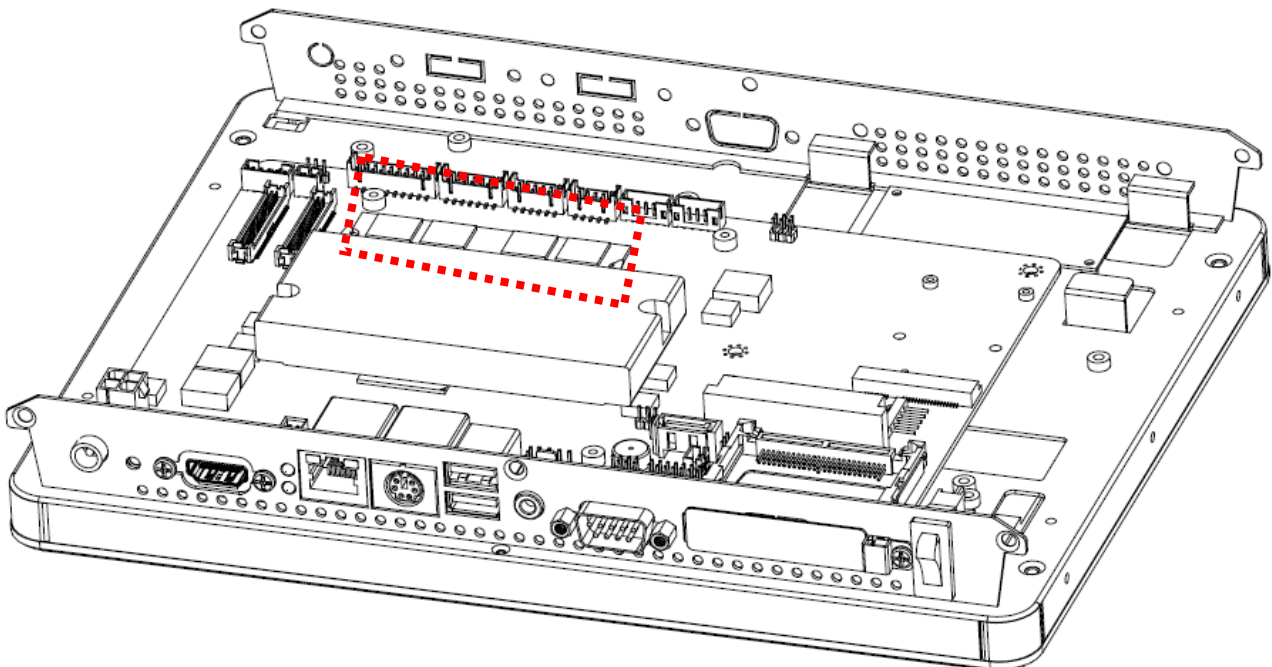
<http://www.avalue.com.tw>

## 2.1 Installing Hard Disk & Memory

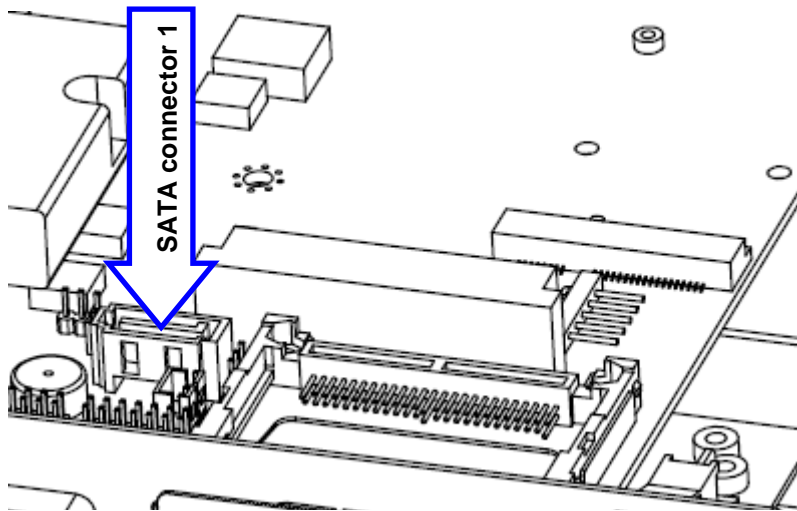
**Step 1.** Unfasten 6 screws from the case. Then take off the top chassis.



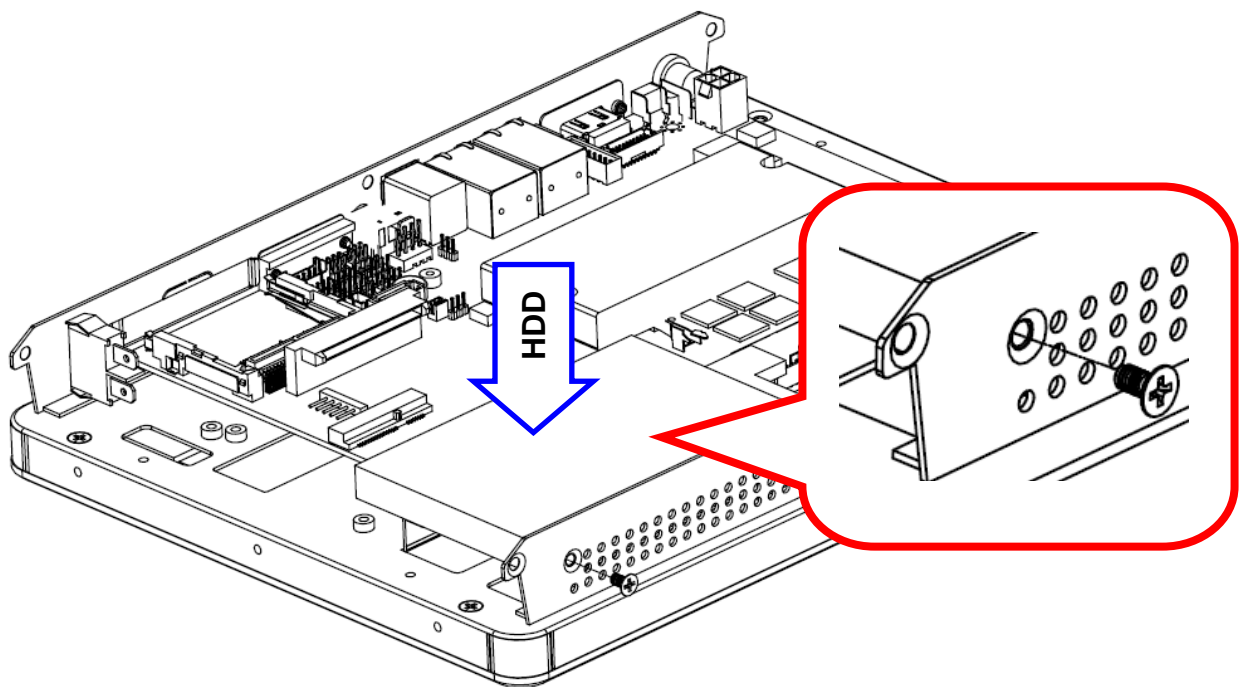
**Step 2.** Insert the SODIMM into the memory socket.



**Step 3-1. SATA HDD Installation:** By default, the SATA cables had been inserted to the according connectors. Just connect to SATA HDD with the two cables.



**Step 3-2.** Insert the HDD into the Drive Bay. Remember to place the HDD down to the bottom exactly in order to screw the device tightly.



**Step 4.** Place back the chassis with 6 screws locked.

