LPC-1507

15" Fanless Multifunctional Touch Panel Computer

Quick Reference Guide

1st Ed – 23 January 2013

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 UNDESIRED 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 INSTATLLED 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.

1.2 Packing List

- 1 x LPC-1507 15" 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 drivers and utilities
- 1 x Power Adapter

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

1.3 System Specifications

Panel	
LCD size	15", 4:3
Display Type	XGA
Resolution	1024 x 768
Pixel pitch	0.297mm(H) x 0.297mm(V)
Luminance	300 cd/m²
Contrast ratio	700
Viewing angle	70(U), 70(D), 75(L), 75(R)
Response time	8 ms
Backlight	CCFL
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
Ethernet	1 x RJ-45
HDMI	1 x HDMI
Audio port	1x Line-out
USB	2 x USB 2.0
Mouse & K/B	1 x PS/2 KB & MS
Display	
Chipset	Intel Cedarview integrated graphics

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Display Memory	CRT mode: 1920 x 1200 @ 60Hz
Resolution	LCD/Simultaneous mode :1400 x 900 @ 60 Hz (CDV-D)
Dual Display	HDMI + LVDS
Audio	
AC97 Codec	Realtek ALC892 supports 5.1-CH Audio
Audio Interface	Speaker out, Line-out
Ethernet	
LAN Chip	Intel® 82574L Gigabit LAN, Optional Dual LAN
Ethernet Interface	10/100/1000 Base-Tx Fast Ethernet compatible
Mechanical & Environmental	
System Fan	Fanless
Color	Front Silver & Rear panel Black
Mounting	Wall/Stand/VESA 75 mm x 75 mm
Power Input	100~250 Vdc/ 47~63 Hz
Power Output	+12 Vdc / 5 A (60W)
ACPI	n/a
Power Type	AT/ATX
Operating Temp.	0 to 40°C
Storage Temp.	-10 to 60°C
Operating Humidity	5%~90% relative humidity, non-condensing
Dimensions	351.5 x 272 x 52 mm
Weight	4.2 Kgs

1.4 System Overview

1.4.1   Front View
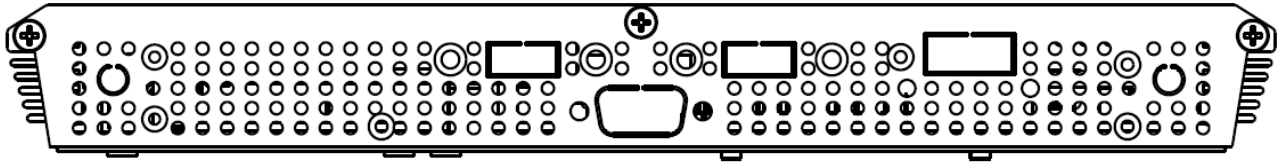
1.4.2   Rear View
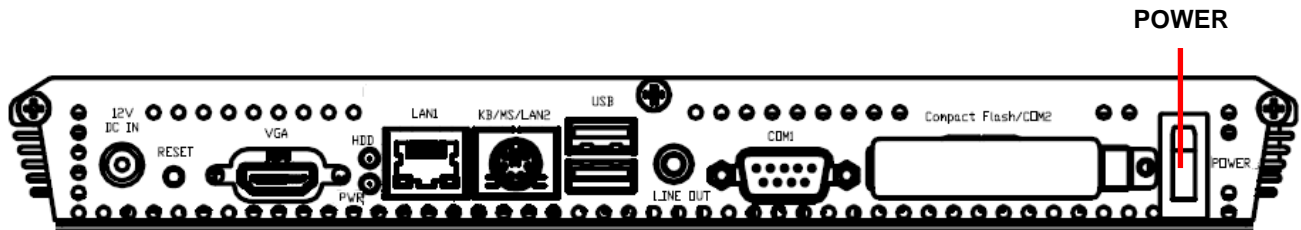
POWER

Connectors

Label	Function	Note
POWER	Power on button	
CF	CF Type I/II Socket with Ejector	Optional for 2nd COM port
COM1	Serial port	DB-9 male connector
LINE OUT	Line-out audio jack	
USB	2 x USB 2.0 connector	Dock USB
LAN1	RJ-45 Ethernet connector 1	
LAN2 (KB/MS)	PS/2 connector Optional 2nd LAN	
HDD	HDD indicator	
PWR	System power indicator	
HDMI	HDMI connector	
RESET	Reset button	
DC-IN	DC Power-in connector	

1.5 System Dimensions
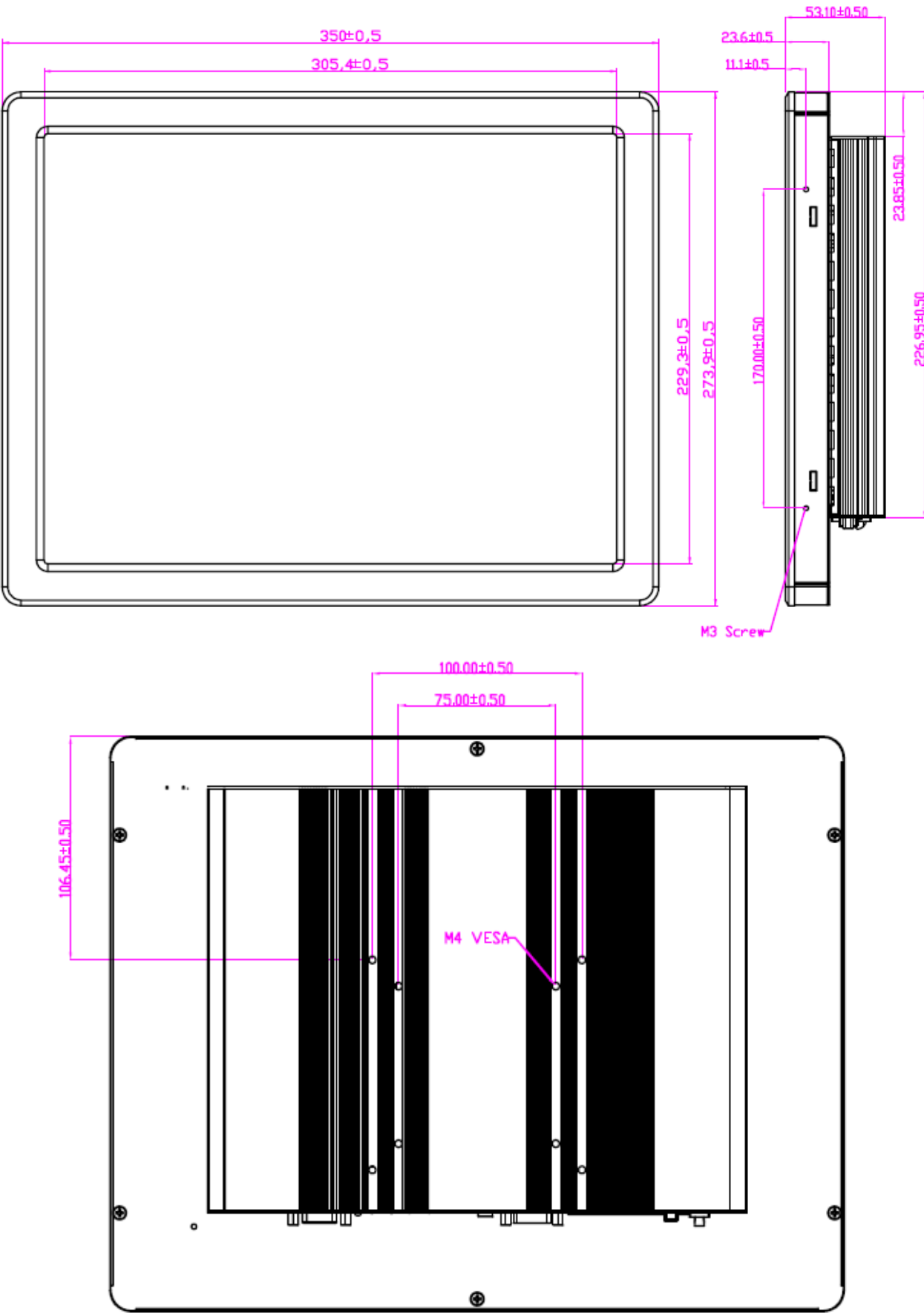
2. Hardware Configuration

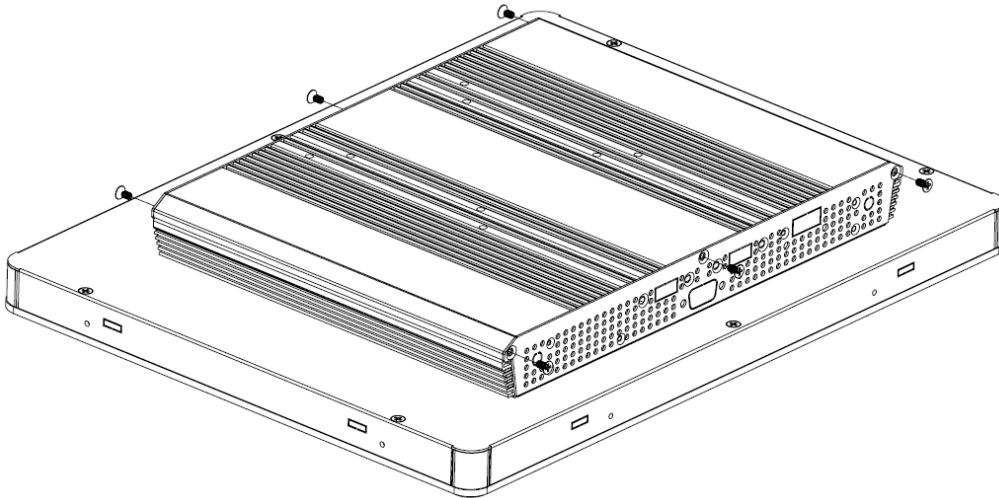Please refer to EBM-CDV Quick Installation Guide or User's Manual for advanced information.

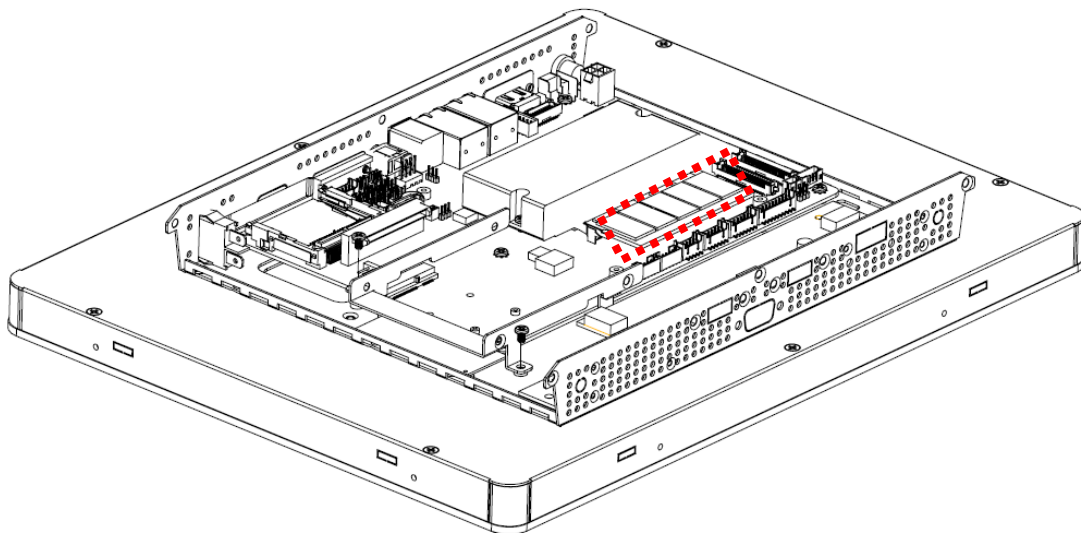**Note:** If you need more information, please visit our website:

http://www.avalue.com.tw
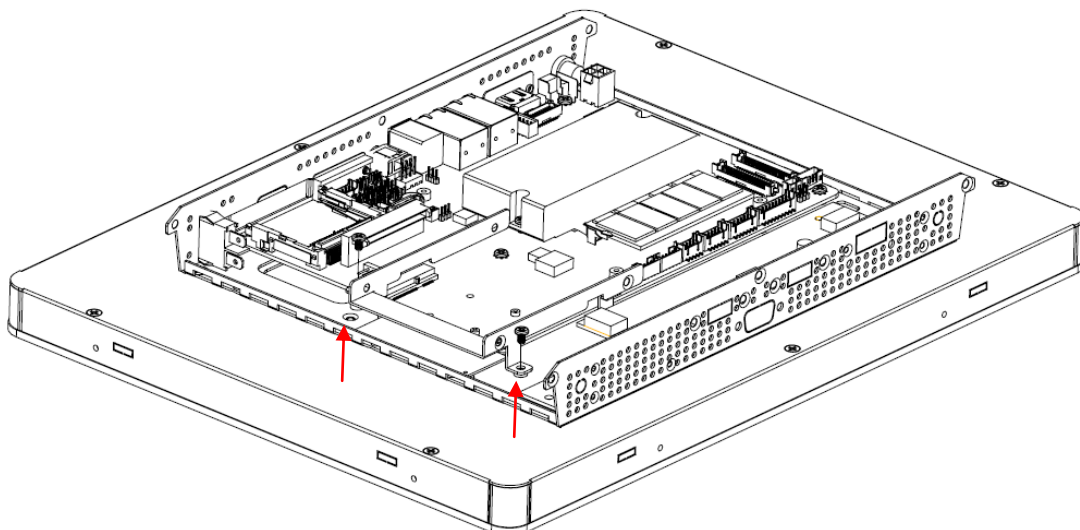
2.1 Installing Hard Disk & Memory

Step 1. Memory Installation: Unfasten 6 screws from the case to take off the top chassis.
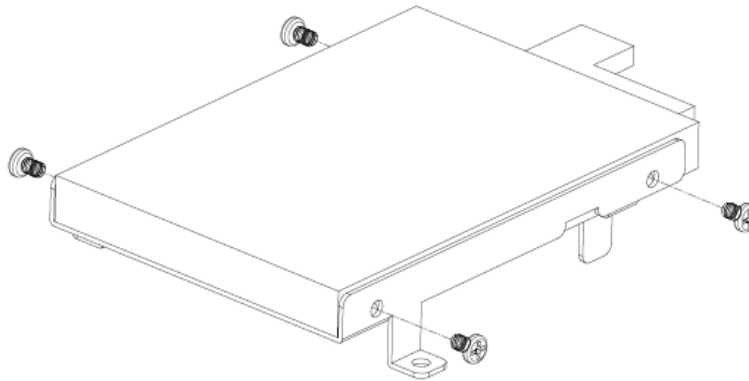

Step 2. Insert the SODIMM into the memory socket.
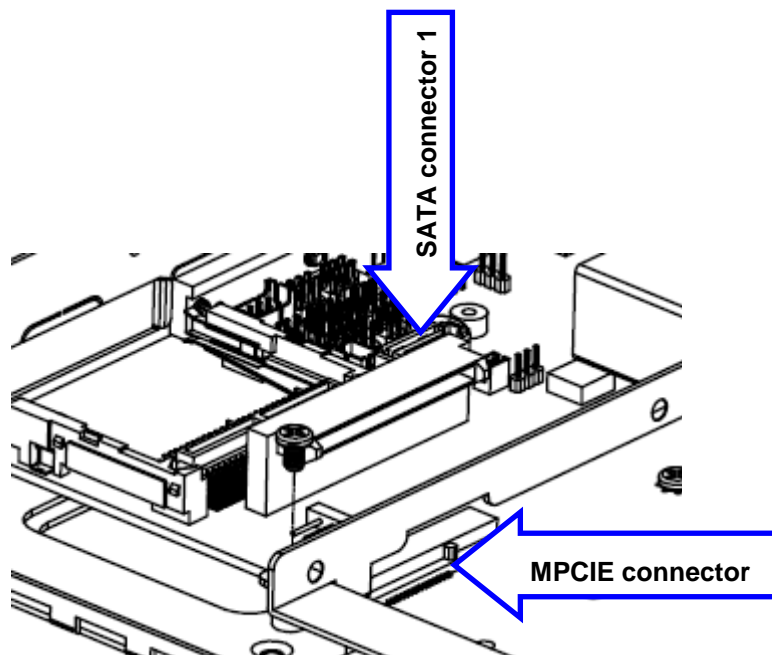

**Step 3-1. HDD Installation:** Unfasten 2 screws of the HDD bracket and take it off.

Step 3-2. Insert the HDD into the bracket and fasten 4 screws.

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

SATA connector 1

MPCIE connector

Step 3-4. Insert the HDD back and fasten 2 screws.

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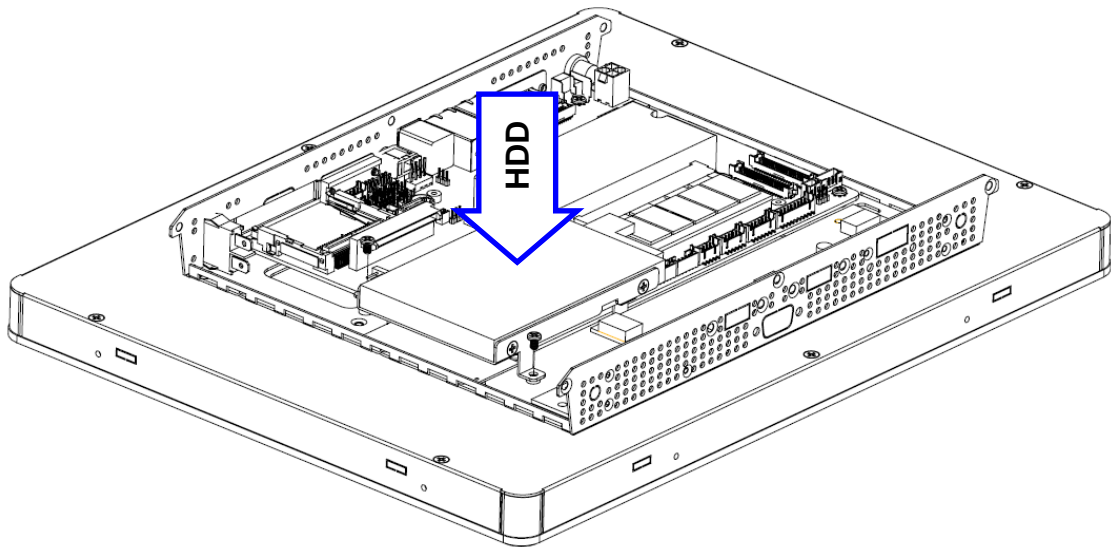
Step 4. Place back the chassis with 6 screws locked.