

LPC 15" Series

15" Multifunctional Touch Panel PC

Quick Reference Guide

2nd Ed – 09 October 2013

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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 15" Series Panel PC
- 1 x Quick Reference Guide
- 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
- 1 x Power Adapter



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

1.3 System Specifications

Panel 		
Model	LPC-1503	LPC-1505
LCD size	15", 4:3	
Display type	XGA	
Resolution	1024 x 768	
Color	262K	
Pixel pitch	0.297mm(H) x 0.297mm(V)	
Luminance	300 cd/m²	
Contrast ratio	500	
Viewing angle	65(U), 60(D), 70(L), 70(R)	
Response time	8 ms	
Backlight	CCFL	
Touch type	5 Wires resistive	
Touch interface	USB	
System 		
Board	EBM-945GSE	EBM-PNV
CPU	Onboard Intel Atom N270 1.6GHz	Onboard Intel Pineview D525 1.8GHz
BIOS	Award 8 Mbit Flash BIOS	Award 512KB Flash BIOS
System Chipset	Intel 945GSE + ICH7-M	Intel ICH8-M
I/O Chipset	ITE 8712F	Nuvoton W83627DHG-P
System Memory	Onboard 1GB DDR2and one SODIMM supports up to 2GB	Onboard 1GB DDR3 and one SODIMM supports up to 3GB
SSD	One CF socket supports Type I / II Compact Flash Card.	
HDD	Optional 2.5" SATA HDD	
WiFi	Optional USB WiFi 802.11b/g	
Watchdog Timer	Reset: 1 ~ 65535 sec./min. and 1 min./step	
Audio	Realtek ALC 892 supports 5.1-CH Audio	Realtek ALC888 supports 5.1-CH Audio
Ethernet	Dual Realtek RTL8111C Gigabit LAN, supports wake on LAN	Intel® 82574L Gigabit LAN, Optional Dual LAN

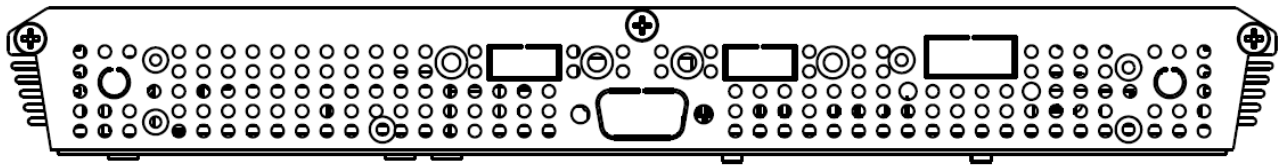
External I/O Ports		
COM Port	1 x RS-232/422/485 setting by BIOS*, optional extra 1 x RS-232/422/485	1 x RS-232/422/485 setting by SW2*, optional extra 1 x RS-232/422/485
Ethernet Port	Dual RTL8111C Giga LAN	Intel® 82574L Gigabit LAN
VGA / LCD Port	1 x DB-15	
Audio Port	Line-out	
USB Port	2 x USB 2.0	
Power Supply Unit		
Power Input	+12V~+26V	
Power Output	5A (60W)	
Environment & Mechanical		
Operating Temperature	0~40°C (32~104°F)	
Storage Temperature	-20 to 60°C (-4~140°F)	
Relative Humidity	5 to 90% @ 40°C (104°F), relative humidity, non-condensing	
Dimension (W x D x H)	351.5 x 272 x 52 mm	
Weight	4.2 Kgs	
Mounting	Desktop (VESA Compliance)	



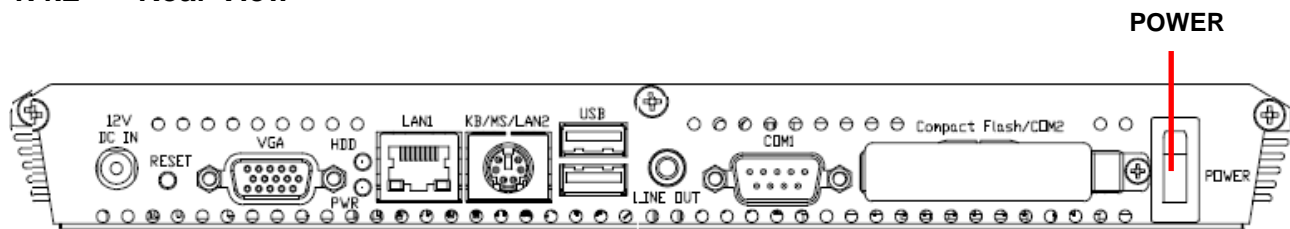
Note: *To know more detail of RS232/422/485 setting, please refer to chapter 2.1.

1.4 System Overview

1.4.1 Front View



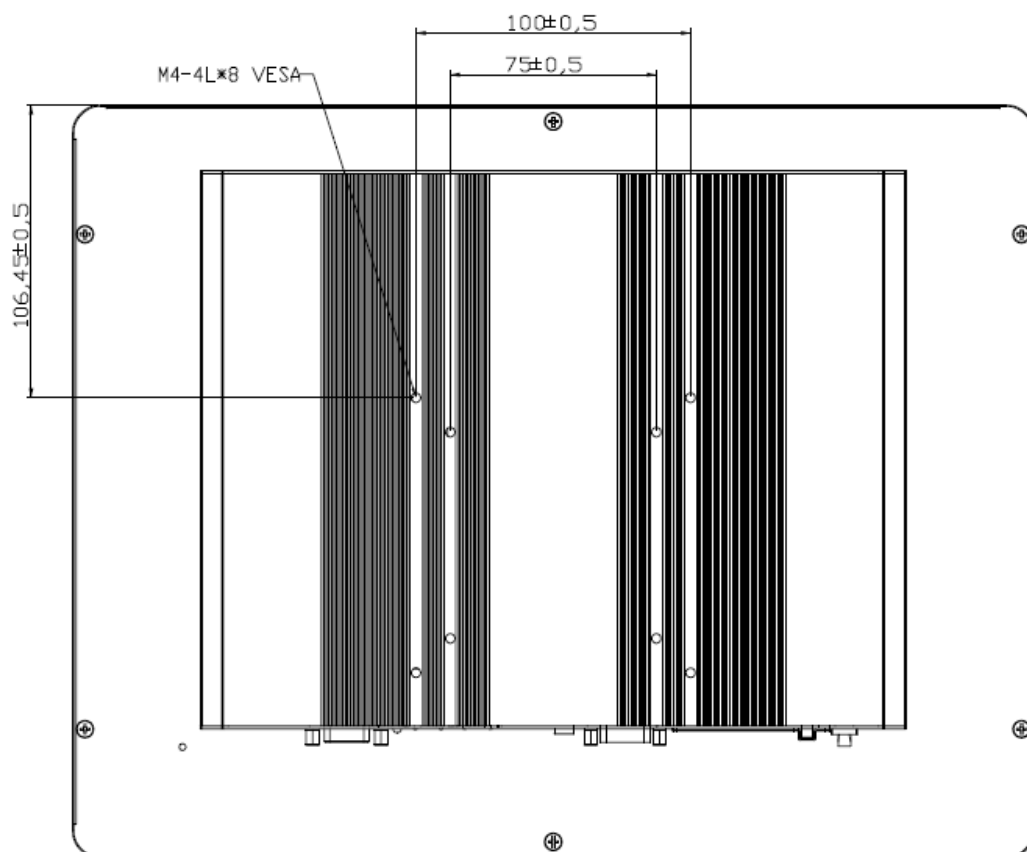
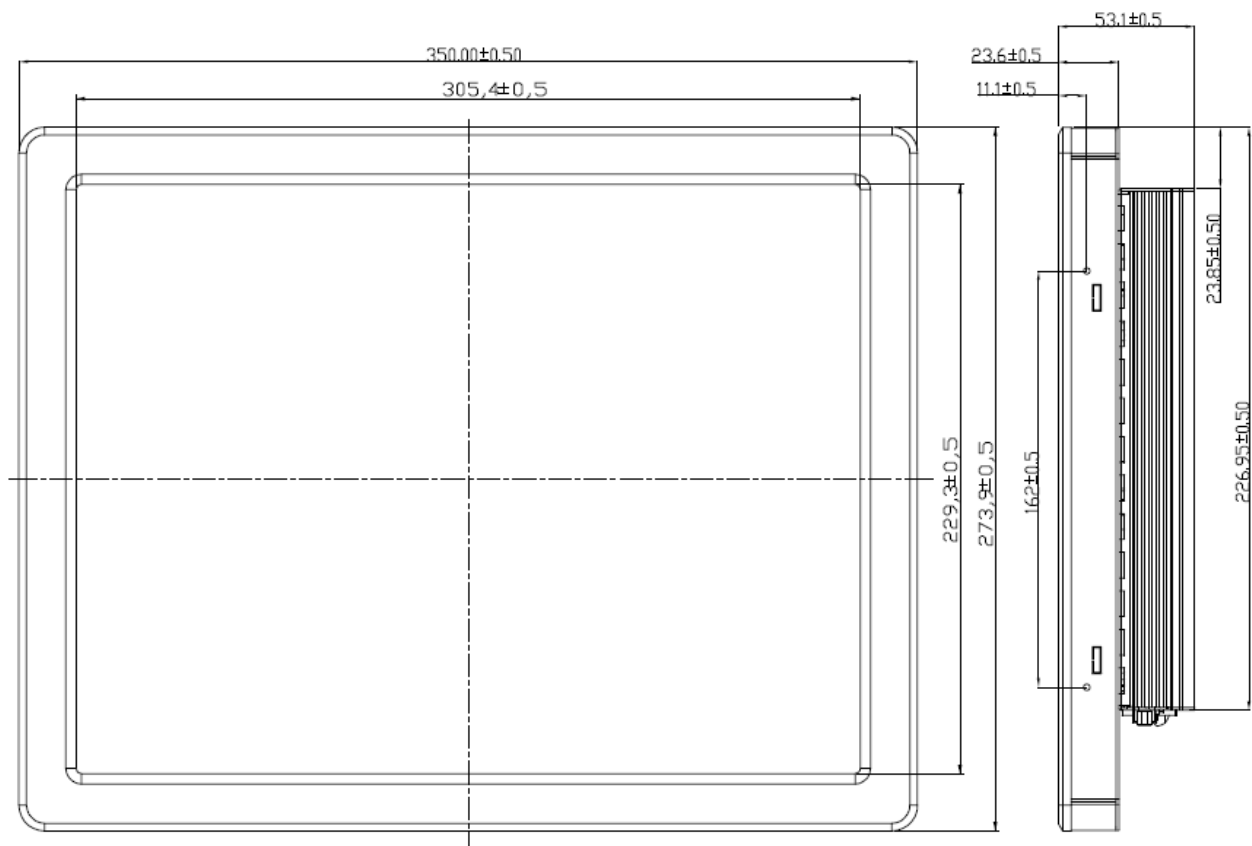
1.4.2 Rear View



Connectors

Label	Function	Note
POWER	Power on button	
CF	CF Type I/II Socket with Ejector	Optional for 2 nd 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	LPC-1505 -- PS/2 connector	
(KB/MS)	LPC-1503 -- LAN2	
HDD	HDD indicator	
PWR	System power indicator	
VGA	CRT connector	DB-15 female connector
RESET	Reset button	
DC-IN	DC Power-in connector	

1.5 System Dimensions



2. Hardware Configuration



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

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

2.1 COM port BIOS Setting

2.1.1 LPC-1503 RS232/422/485 setting by BIOS

The COM port setting of LPC-1503, which applying EBM-945GSE M/B, can be configured by BIOS. The path is shown as below.

[BIOS Menu] → [Integrated Peripherals] → [Super IO Device]
→ [COMPORT 232/422/485]

Phoenix – AwardBIOS CMOS Setup Utility		
SuperIO Device		
Onboard Serial Port 1	[3F8/IRQ4]	Item Help
COM1 232/422/485	[RS232]	
Onboard Serial Port 2	[2F8/IRQ3]	Menu Level ▶
COM2 232/422/485	[RS232]	
PWRON After PWR-Fail	[Off]	
Watch Dog Timer Select	[Disabled]	
Onboard Serial Port 3	[3E8]	
Serial Port 3 Use IRQ	[IRQ5]	
Onboard Serial Port 4	[2E8]	
Serial Port 4 Use IRQ	[IRQ10]	
Onboard Serial Port 5	[218]	
Serial Port 5 Use IRQ	[IRQ5]	
Onboard Serial Port 6	[208]	
Serial Port 6 Use IRQ	[IRQ10]	
Serial Port 3 Mode	[Normal]	

The panel backlight of LPC-1503, which applying EBM-945GSE M/B, can be configured by BIOS as well. The path is shown as below.

[BIOS Menu] → [Advanced Chipset Features] → [LVDS Back Light]

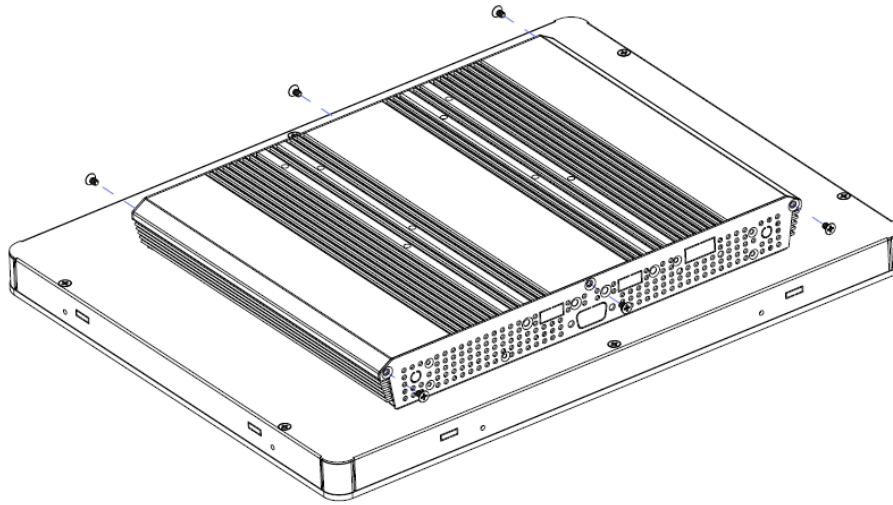
To know more about other settings, please refer to **EBM-945GSE** Quick Installation Guide or User's Manual.

2.1.2 LPC-1505 RS232/422/485 setting by SW2

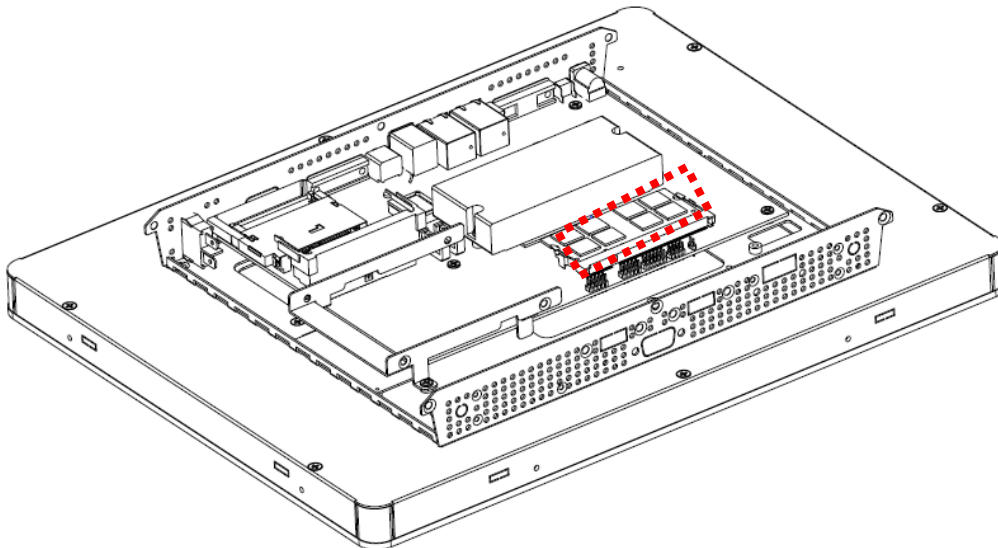
The COM port setting of LPC-1505, which applying EBM-PNV M/B, can be configured by SW2. Please refer to **EBM-PNV** Quick Installation Guide or User's Manual.

2.2 Installing Hard Disk & Memory

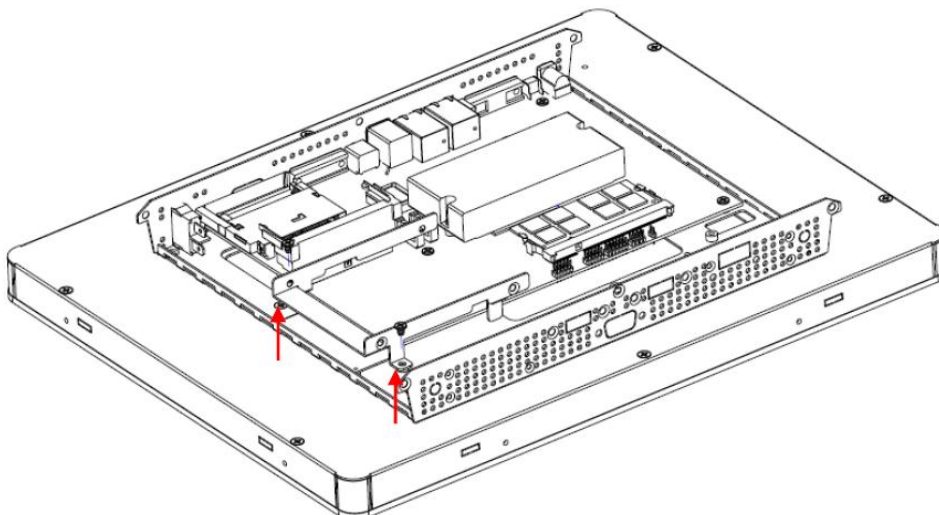
Step 1. Memory Installation: Unfasten 6 screws from the case to take off the top chassis.



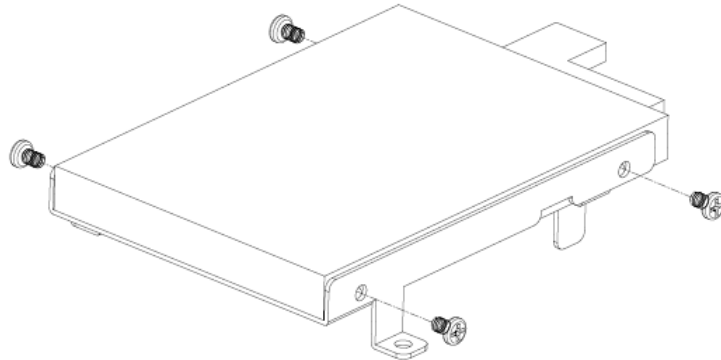
Step 2. Insert the SODIMM into the memory socket.



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

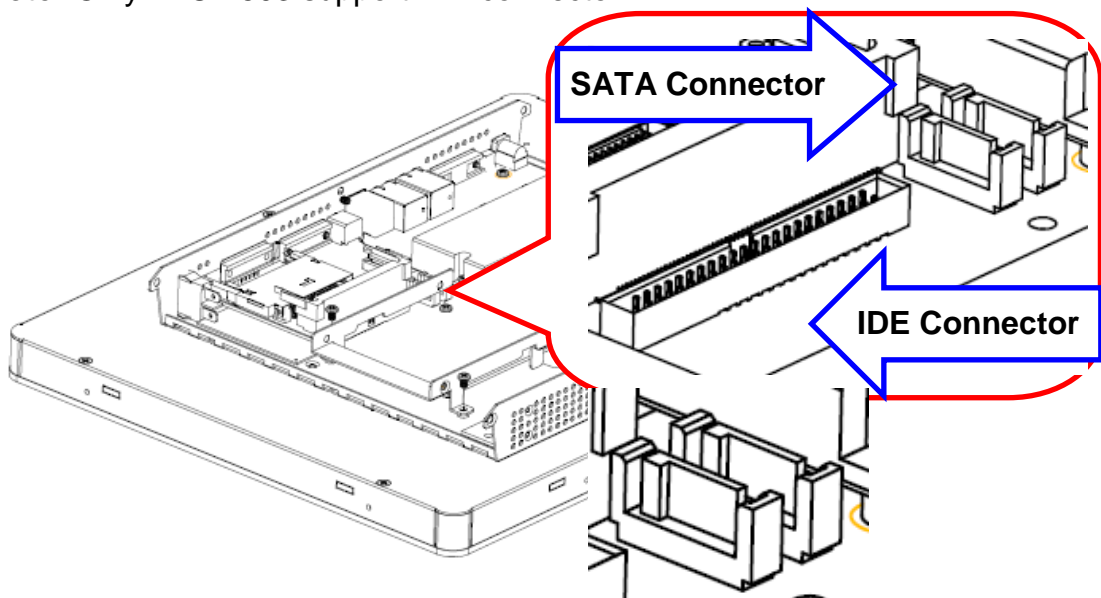


Step 3-2. Insert the HDD into the bracket and fasten 4 screws.

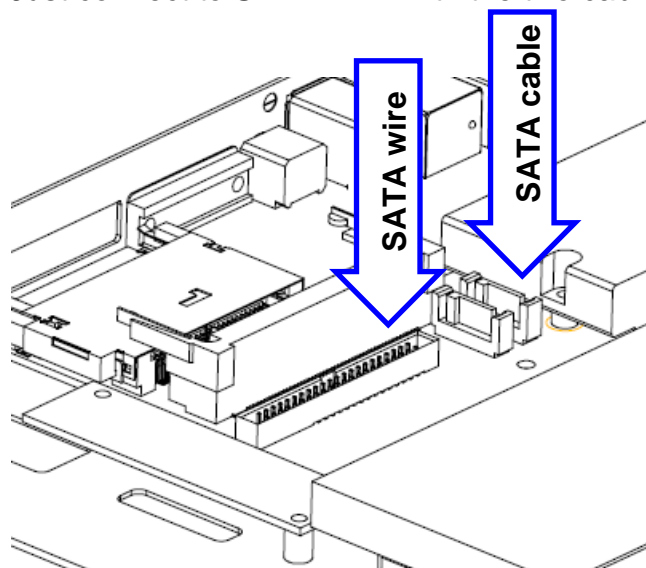


Step 3-3. Insert the cable to connect the HDD and the SATA connector.

Note: Only LPC-1503 support IDE connector.

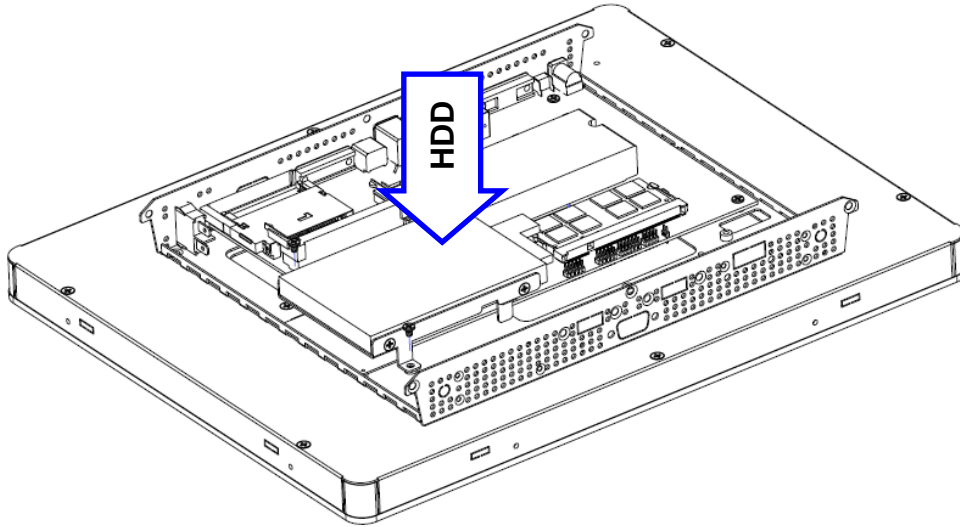


Step 3-4. SATA HDD Installation: By default, the SATA cables had been inserted to the according connectors. Just connect to SATA HDD with the two cables.



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Step 3-5. Insert the HDD back and fasten 2 screws.



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

