OPC 15” Series

15” Open Frame Touch Panel PC

Quick Reference Guide

1st Ed – 10 August 2011

Part No. E2017OP53A1R

Contents

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 OPC 15" Series Open Frame 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

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

1.3 System Specifications

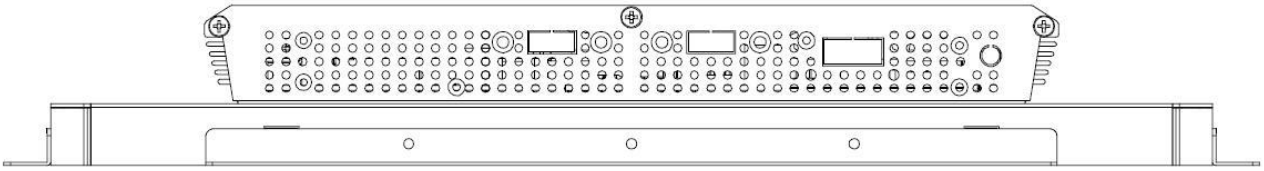
Panel	
Model	**OPC-1503**
LCD size	15”, 4:3
Display type	XGA
Resolution	1024 x 768
Color	262K
Pixel pitch	0.297mm(H) x 0.297mm(V)
Luminance	300 cd/m²
Contrast ratio	700
Viewing angle	150 (Horizontal) / 140 (Vertical)
Response time	Tr = 2 ms; Tf = 6 ms
Backlight	CCFL
Touch type	5 -Wire Resistive
Touch interface	USB
System	
Board	EBM-945GSE
CPU	Onboard Intel Atom N270 1.6GHz (2.5W)
BIOS	Award 8 Mbit Flash BIOS
System Chipset	Intel 945GSE + ICH7-M
I/O Chipset	ITE 8712F
System Memory	Onboard 1GB DDR2, extra one SODIMM supports up to 2GB 400/533 SDRAM
SSD	One CF socket supports Type I / II Compact Flash Card.
HDD	Optional 2.5” SATA HDD or 44-pin enhanced IDE HDD
WiFi	Optional USB WiFi 802.11b/g
Watchdog Timer	Reset: 1 ~ 65535 sec./min. and 1 min./step
Display	Intel 945GSE GMCH integrated GMA950 graphics
Audio	Realtek ALC 655 supports 5.1-CH Audio
Ethernet	Dual Realtek RTL8111C Gigabit LAN, supports wake on LAN

External I/O Ports	
COM Port	1 x RS-232/422/485 setting by BIOS*, optional extra 1 x RS-232/422/485
Ethernet Port	Dual RTL8111C Giga 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
Power Connector	Phoenix Type
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)	377.6 x 272.1 x 48 mm (with mounting brackets)
Weight	4.25 Kgs
Mounting	Desktop (VESA Compliance)

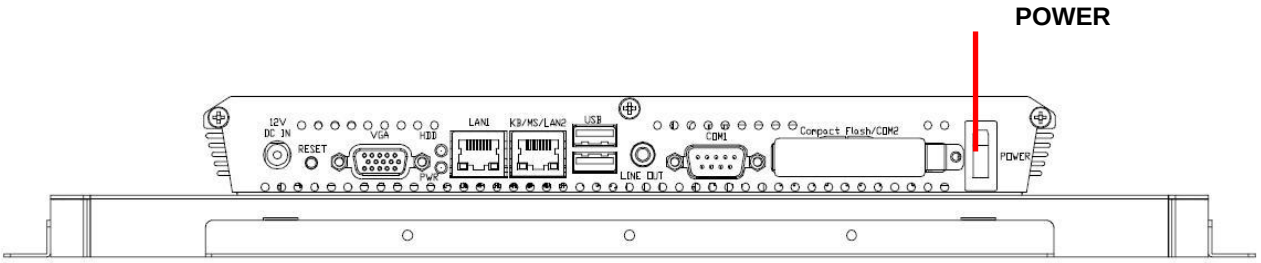
**Note: ***To know more detail of RS232/422/485 setting by BIOS, please refer to chapter 2.1.

1.4 System Overview

1.4.1 Front View



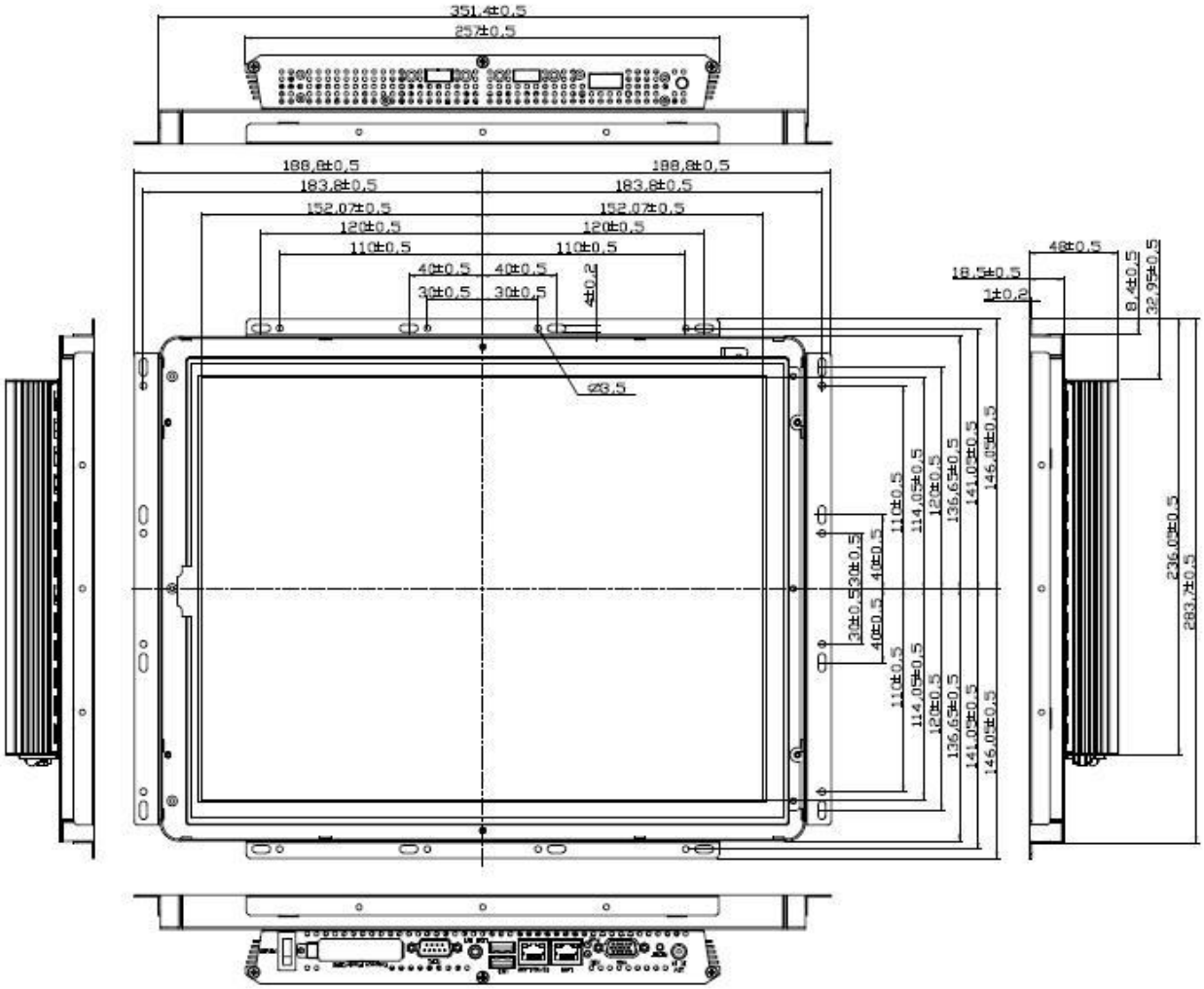
1.4.2 Rear View

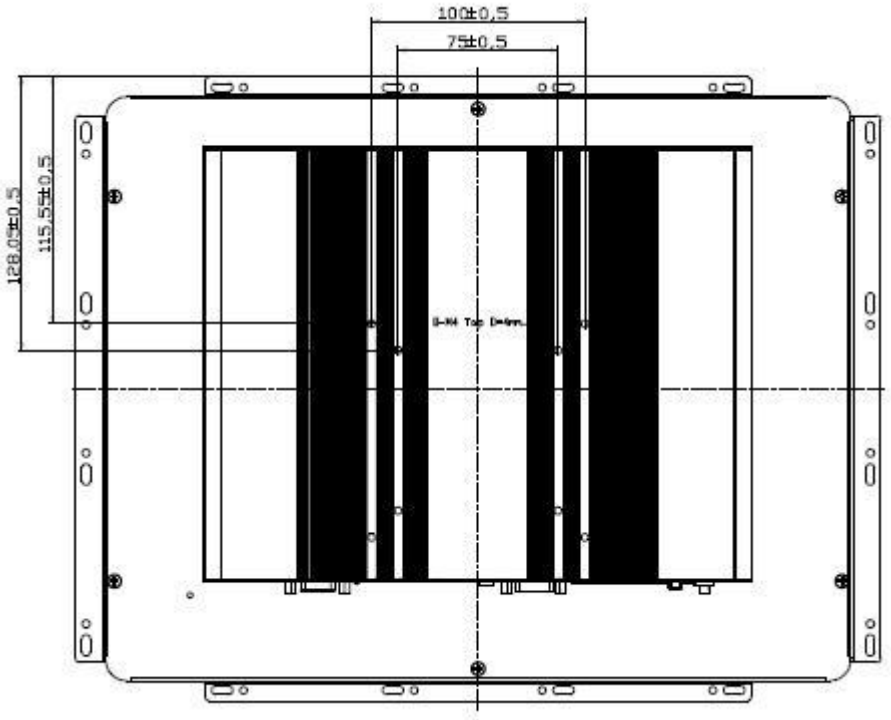


Connectors

Label	Function	Note
POWER	Power on button	
CF	CF Type I/II Socket with Ejector	Optional for 2nd COM port
COM	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)	RJ-45 Ethernet connector 2 (LAN2 is default, KB/MS is optional)	
HDD	HDD indicator	
PWR	System power indicator	
VGA	CRT connector	DB-15 female connector
RESET	Reset button	
DC-IN	Phoenix connector	

1.5 System Dimensions




100±0,5
75±0,5
115,55±0,5

2. Hardware Configuration

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

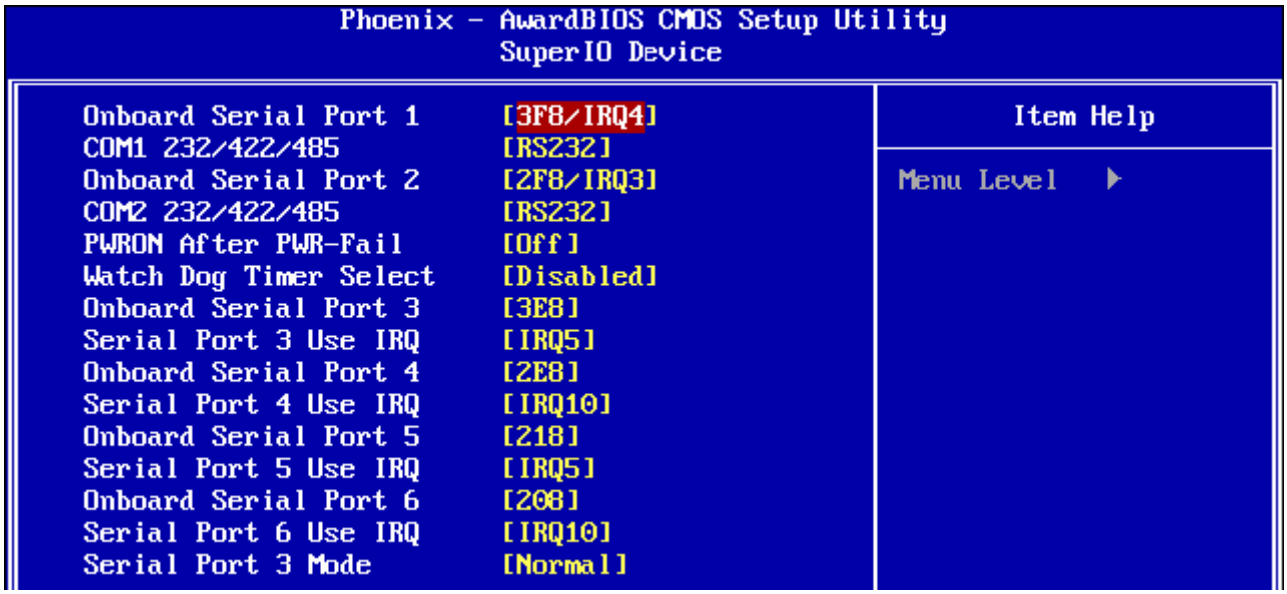
http://www.avalue.com.tw

2.1 Jumper and Connector Setting , Driver and BIOS Installing

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

The COM port setting of OPC-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]



Note: COM3 to COM6 are optional and display on BIOS menu accordingly.

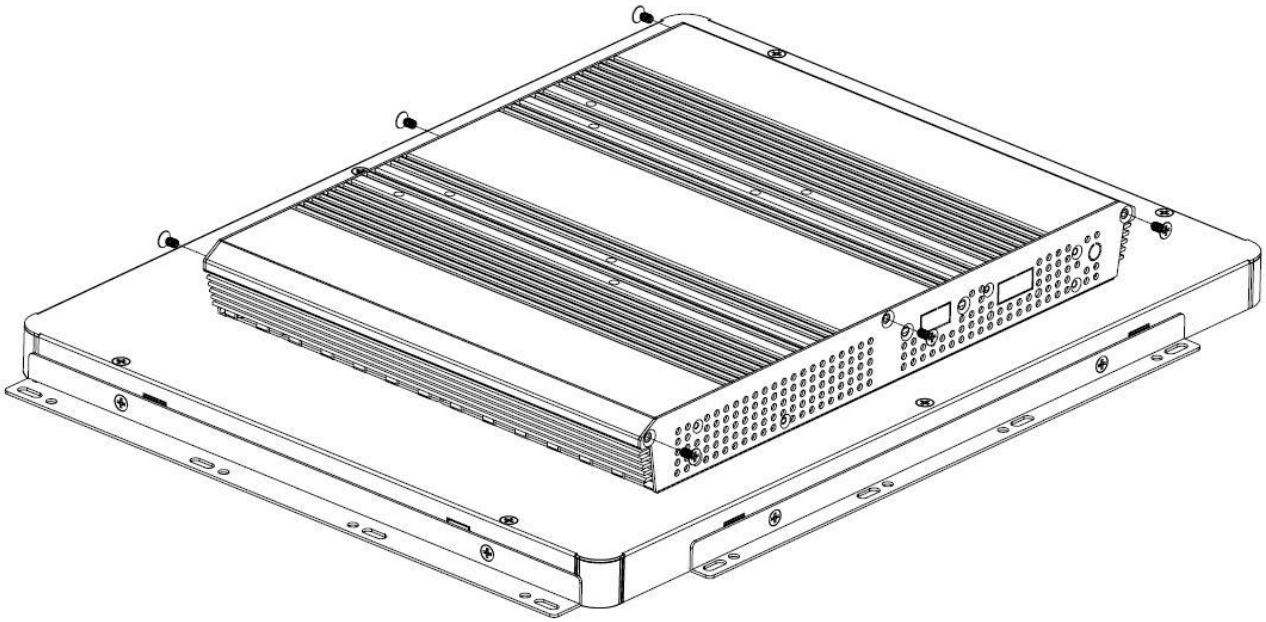
The panel backlight of OPC-1503, which applying EBM-945GSE M/B, can be configured by BIOS as well. The path is shown as below.

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

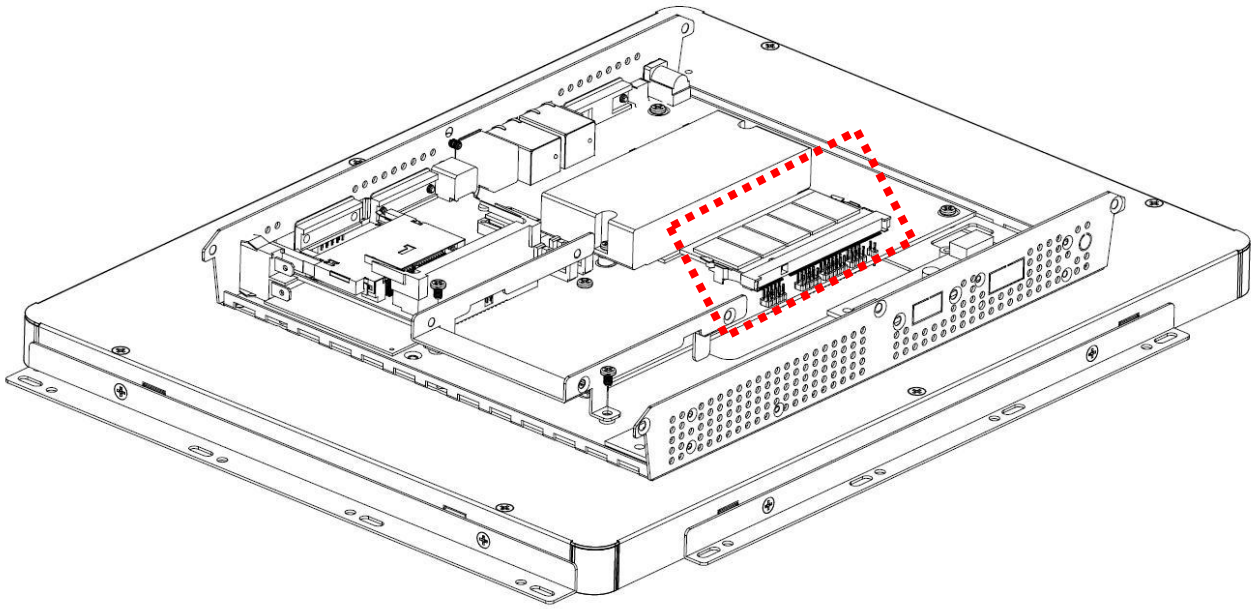
To know more about other settings, please refer to **EBM-945GSE** Quick Installation Guide or User’s Manual.

2.2 Hard Disk & Memory Installation

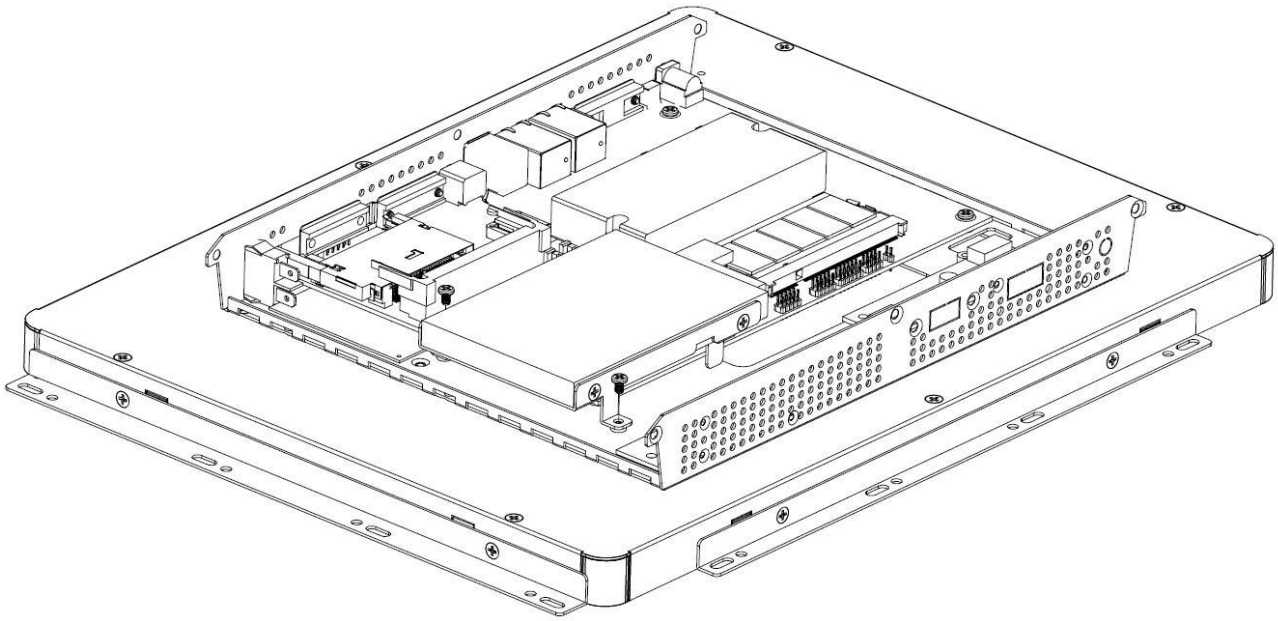
Step 1. Memory Installation: Remove 6 screws as shown below to open chassis cover.



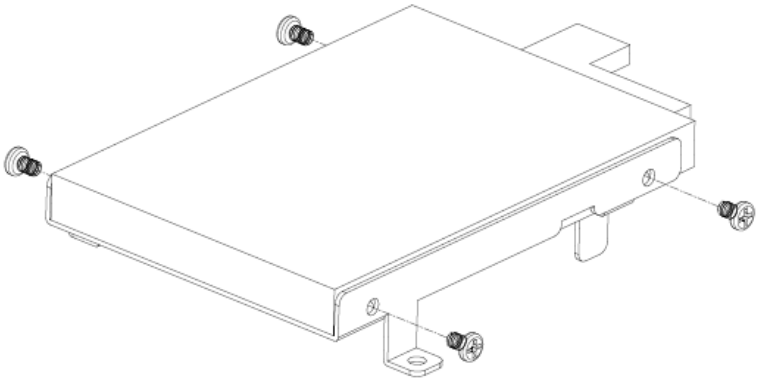
Step 2. Insert the SODIMM into the memory socket.



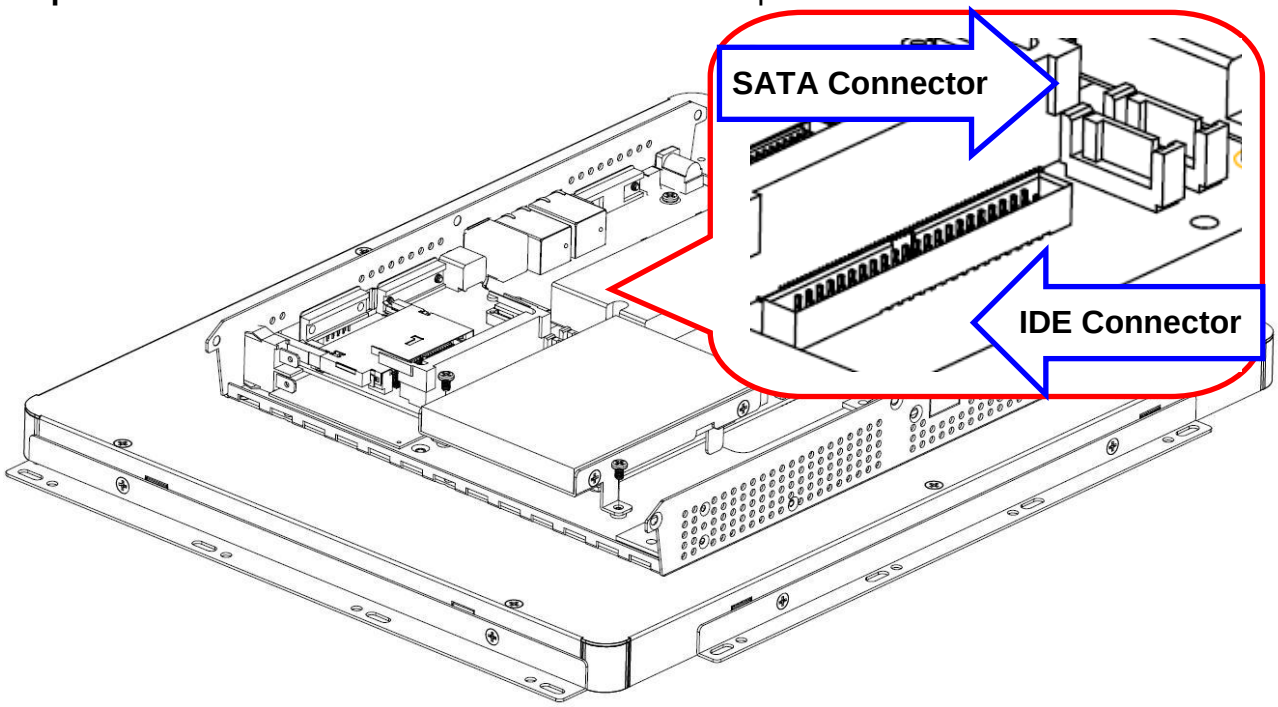
Step 3-1. HDD Installation: Remove 2 screws from the HDD bracket for removal



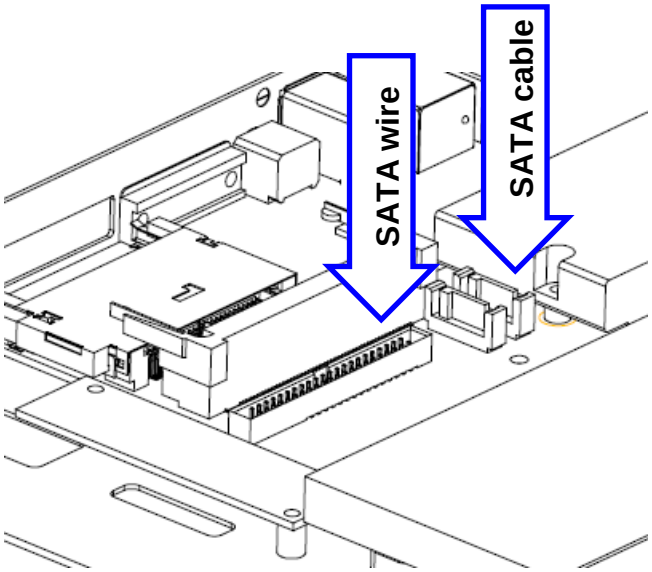
Step 3-2. Properly seat the HDD into the bracket then lock with 4 screws.



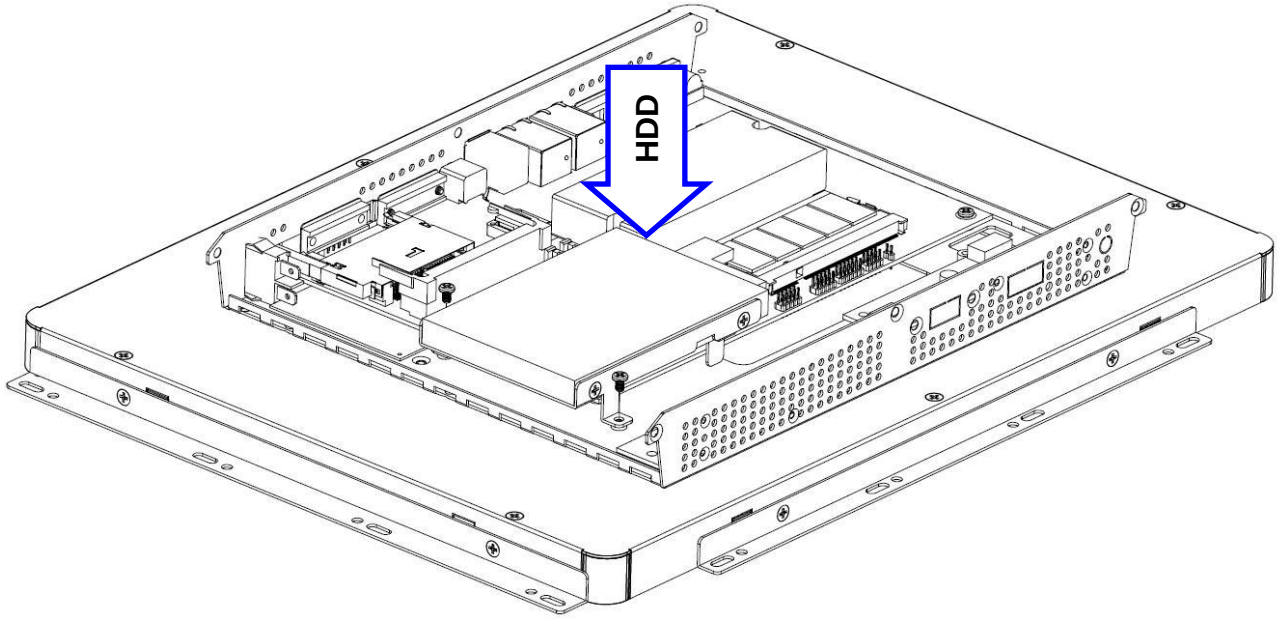
Step 3-3. Connect HDD and SATA cables to their respective connectors.



Step 3-4. SATA HDD Installation: By default, SATA cables are connected to the designated connectors. Please connect SATA & HDD to the two cables.



Step 3-5. Reassemble HDD bracket and lock with 2 screws.



Step 4. Reassemble the chassis and fasten 6 screws to complete.