

FPC-10W09

10" Intel® Atom™ WSVGA TFT Touch Panel PC

Quick Reference Guide

1st Ed – 21 June, 2016

Copyright Notice

Copyright © 2016 Avalue Technology Inc., ALL RIGHTS RESERVED.

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.

Notice

This guide is designed for experienced users to setup the system within the shortest time. For detailed information, please always refer to the electronic user's manual.

Copyright Notice

Copyright © 2016 Avalue Technology Inc., ALL RIGHTS RESERVED.

No part of this document may be reproduced, copied, translated, or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the prior written permission of the original manufacturer.

Trademark Acknowledgement

Brand and product names are trademarks or registered trademarks of their respective owners.

Disclaimer

Avalue Technology Inc. reserves the right to make changes, without notice, to any product, including circuits and/or software described or contained in this manual in order to improve design and/or performance. Avalue Technology assumes no responsibility or liability for the use of the described product(s), conveys no license or title under any patent, copyright, or masks work rights to these products, and makes no representations or warranties that

these products are free from patent, copyright, or mask work right infringement, unless otherwise specified. Applications that are described in this manual are for illustration purposes only. Avalue Technology Inc. makes no representation or warranty that such application will be suitable for the specified use without further testing or modification.

Life Support Policy

Avalue Technology's PRODUCTS ARE NOT FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE PRIOR WRITTEN APPROVAL OF Avalue Technology Inc.

As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into body, or (b) support or sustain life and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.
2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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/>

Contents

- 1. Getting Started5**
 - 1.1 Safety Precautions5
 - 1.2 Packing List5
 - 1.3 System Specifications6
 - 1.4 System Overview.....8
 - 1.4.1 Rear View..... 8
 - 1.5 System Dimensions.....9
- 2. Hardware Configuration.....10**
 - 2.1 FPC-10W09 connector setting.....11
 - 2.1.1 Serial Port connector (COM)..... 11
 - 2.2 Installing Hard Disk.....12

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 FPC-10W09 Panel PC
- 1 x CD/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
 - Touch controller drivers and utilities
- 1 x packing set includes the followings
 - 1 x power cord
 - 1 x AC/DC adapter 12V/5A 60W



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

1.3 System Specifications

Component	
Mother Board	ECM-BYT
CPU	Onboard Intel® Atom™ Processor E3845 1.91 GHz CPU
CPU Cooler (Type)	Fanless Heatsink
Memory	One 204-pin SODIMM Supports Up to 4GB DDR3L 1333MHz SDRAM (Default ACC-MEM-2GB-29R)
Audio Codec	Realtek ALC892-GR
Power Supply	External power adapter
Adapter	FSP060-DIBAN2 12V/5A 60W (ACC-ADP-060N-04R)
Speaker	8Ω 2W
Wireless LAN	Optional MiniPCIe Intel AC7260 (ACC-MPCIE-WIFI-04R)
Operating System	Windows 7 Windows Embedded Standard 7 Windows Embedded POSReady 7 Windows 7 For Embedded System Windows 8.1 Pro
Storage	
Hard Disk Drive	2.5" HDD
Solid State Drive	2.5" SSD (Default ACC-2SFD-32G-14R)
Other Storage Device	Type I/II CF
Panel	
LCD Panel	10.1" WSVGA TFT LCD Panel HSD100IFW4
LCD Control Board	Built-in
B/L Inverter/Converter	Built-in
Touch Screen	Touch panel 5 wire Analog
Touch Controller	PenMount 6000-6001017 Ver.6.0.0
External I/O	
Serial Port	1 x COM D-sub 9 pin
USB Port	1 x USB 3.0, 4 x USB 2.0
Video Port	1 x VGA
HDMI Port	1 x HDMI
LAN Port	2 x RJ-45 Intel® I211AT
Switch	1 x Power switch

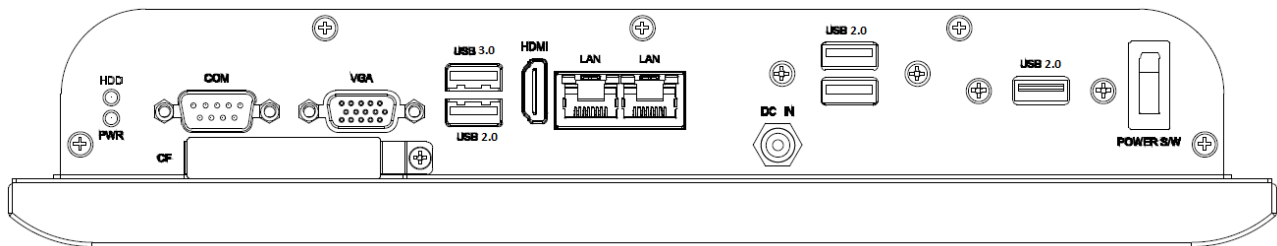
Expansion Slots	1 x MiniPCle Slot
Mechanical	
Power Type	AT/ATX (ATX is default)
Power Connector Type	Lockable DC Plug
Dimension	300 mm x 195 mm x 56 mm
Color	Black
Fanless	Fanless
Reliability	
EMI Test	Class B
Safety	CE / FCC
Dust and Rain Test	IP65
Vibration Test	With SSD/mSATA : 1.5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30min/axis
Mechanical Shock Test	With CF/SSD : 10Grms, IEC 60068-2-27, Half Sine, 11ms
Operating Temperature	0°C ~ 40°C
Operating Humidity	10% to 95% @ 40°C, Non-condensing
Storage Temperature	-10°C ~ 50°C



Note: Specifications are subject to change without notice.

1.4 System Overview

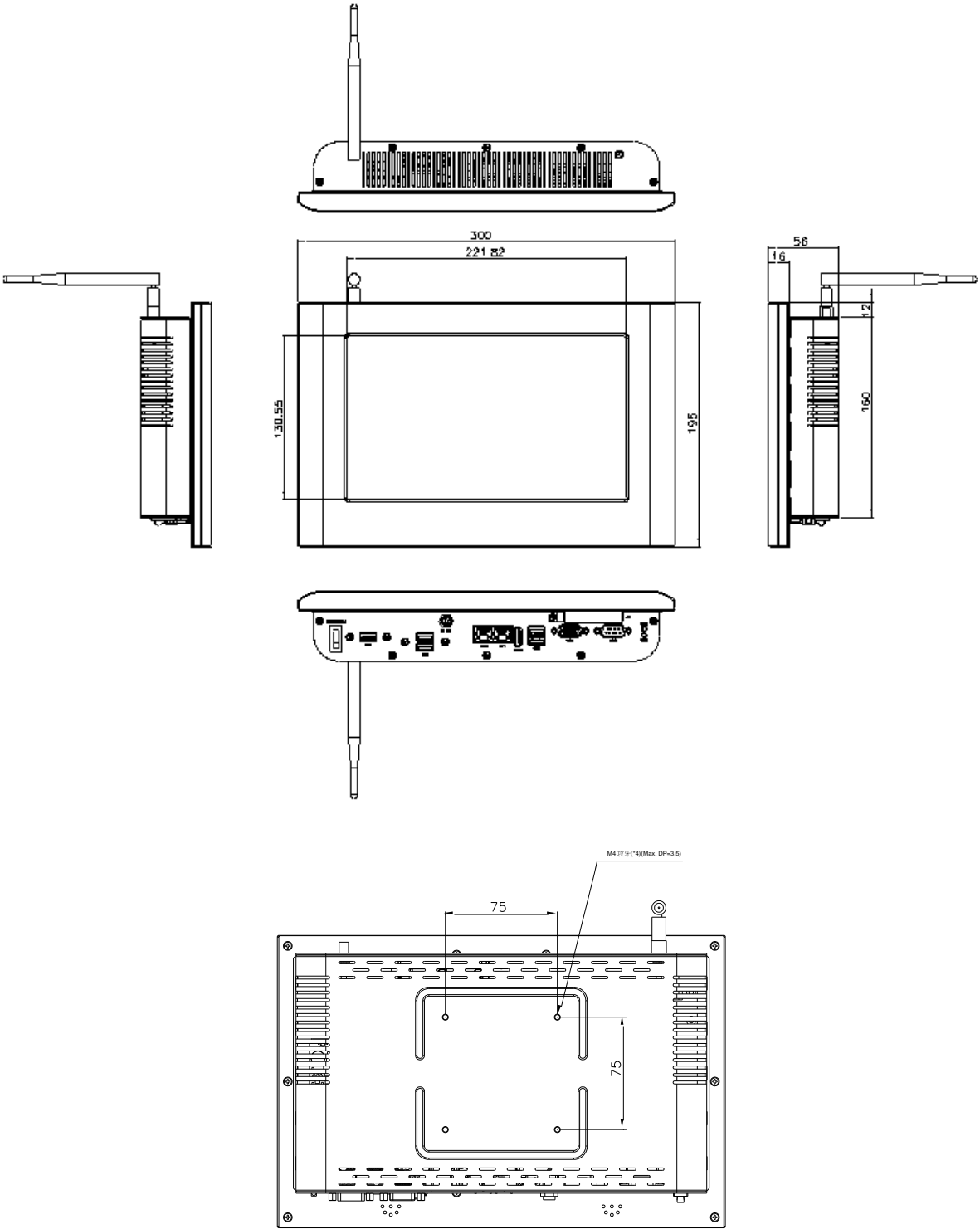
1.4.1 Rear View



Connectors

Label	Function	Note
CF	CompactFlash Type I/II socket	
COM	Serial port connector	DB-9 male connector
DC IN	DC-in power connector	
HDD	HDD LED	
LAN	2 x RJ-45 Ethernet connector	
POWER S/W	Power switch	
PWR	Power LED	
USB	4 x USB 2.0 connector 1 x USB 3.0 connector	
HDMI	HDMI connector	
VGA	VGA connector	

1.5 System Dimensions



(Unit: mm)

2. Hardware Configuration

- Please refer to ECM-BYT User's Manual for further information.

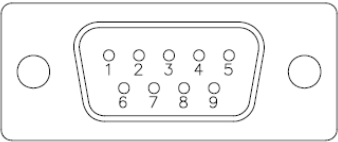
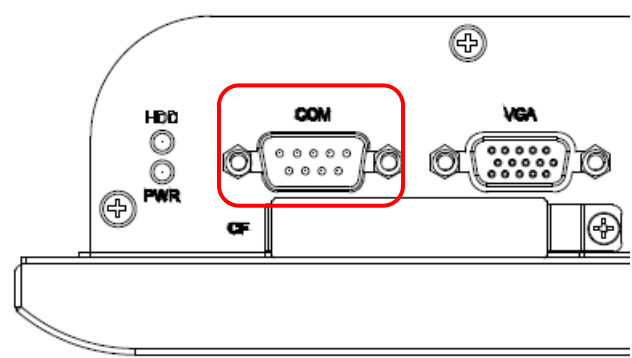


Note: If you need more information, please visit our website:

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

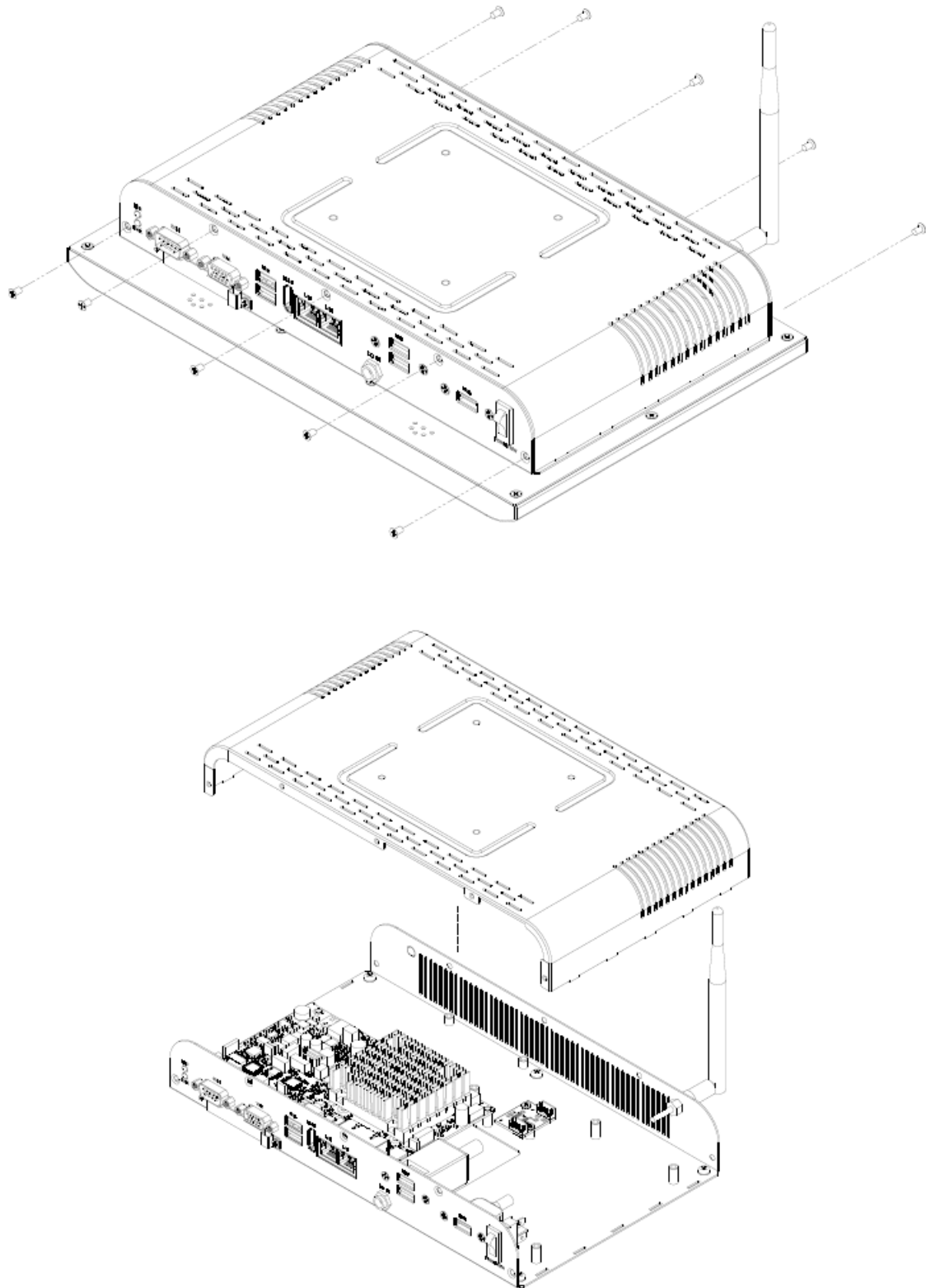
2.1 FPC-10W09 connector setting

2.1.1 Serial Port connector (COM)

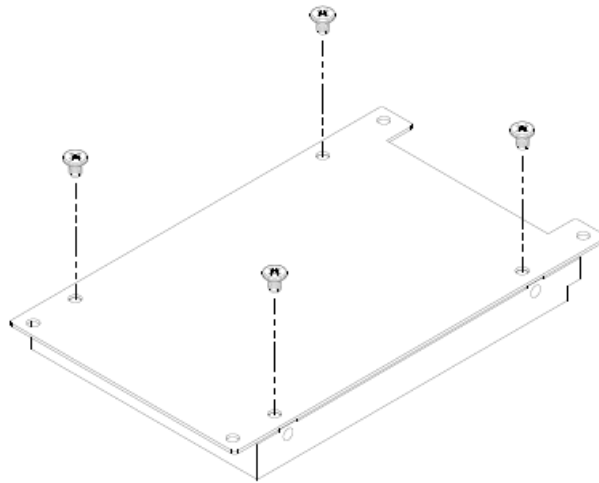


Signal	PIN	PIN	Signal
ND CD#	1	6	ND SR#
NR XD	2	7	NR TS#
NT XD	3	8	NC TS#
ND TR#	4	9	NR I#
GND	5		

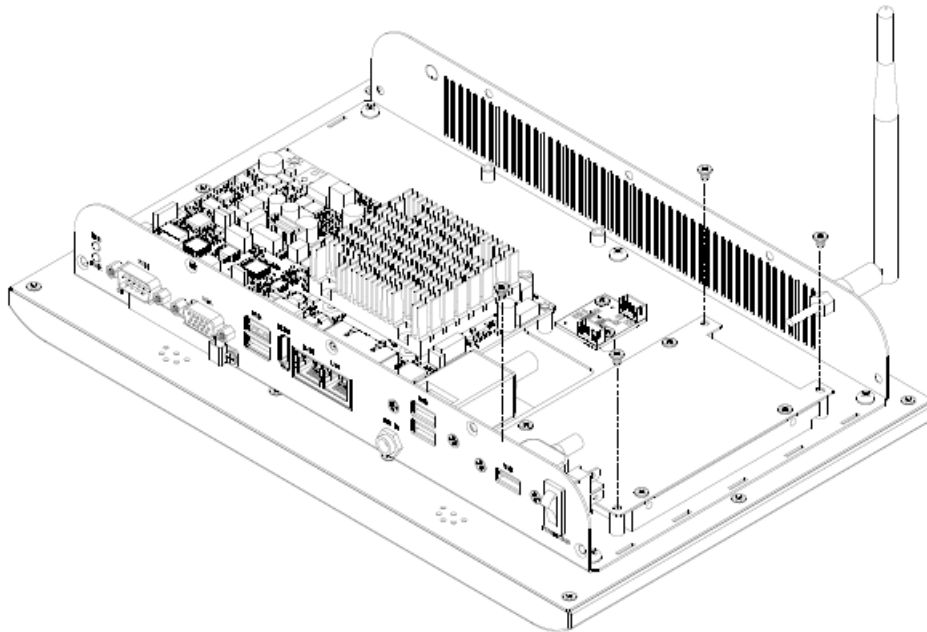
2.2 Installing Hard Disk



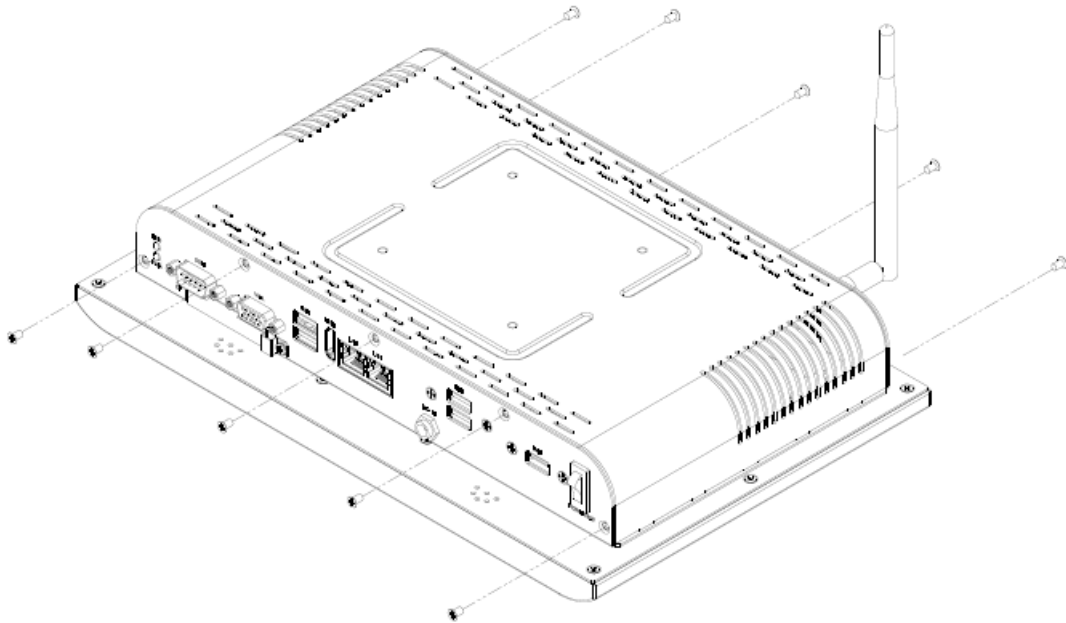
Step 1. Unfasten 10 screws from the case to take off the top chassis.



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



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



Step 4. Place back the chassis with 10 screws locked.

