

FPC-10W07

10" Widescreen Multi-functional Touch Panel PC

Quick Reference Guide

1st Ed – 09 October, 2013

Copyright Notice

Copyright © 2013 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 © 2013 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 Started	5
1.1 Safety Precautions	5
1.2 Packing List	5
1.3 System Specifications	6
1.4 System Overview.....	8
1.4.1 Rear View.....	8
1.5 System Dimensions.....	9
1.5.1 FPC-10W07	9
2. Hardware Configuration.....	10
2.1 Jumper and Connector Setting, Driver and BIOS Installing.....	10
2.2 Installing Hard Disk & Memory	11
2.2.1 External Serial Port 1 connector (COM1)	11
2.2.2 External Serial Port 2 connector (COM2)	12
2.3 Installing Hard Disk & Memory	13
2.3.1 Install 2.5" HDD.....	13
2.4 Installing System Memory	15
2.5 Installing CF Card.....	16

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-10W07 Panel PC
- 1 x Quick Reference Guide
- 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
 - WiFi drivers and utilities
 - Touch controller drivers and utilities
- 1 x Power Adapter
- 4 screws for HDD (for barebone)



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

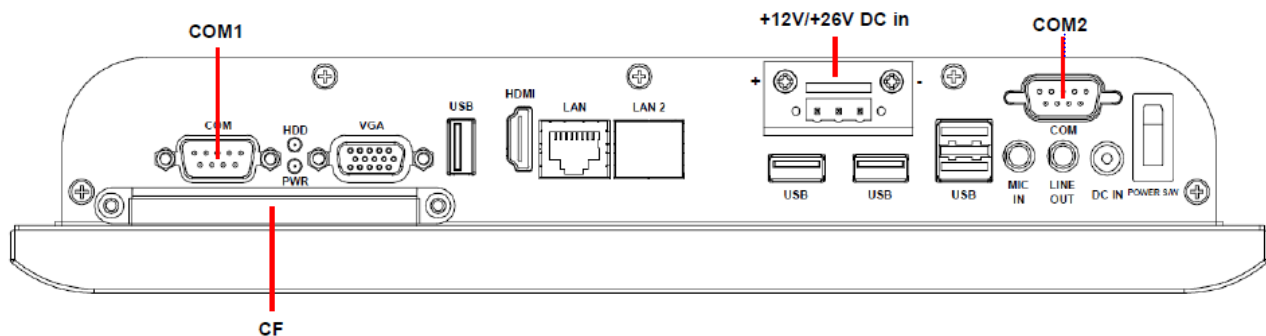
1.3 System Specifications

Panel 	
Model	FPC-10W07
LCD size	10" Wide
Display type	WSVGA TFT
Resolution	1024x600
Color	256K
Pixel pitch	0.21525mm(W) x 0.21525mm(H)
Luminance	250 cd/m ²
Contrast ratio	500
Viewing angle	50(U), 60(D), 70(L), 70(R)
Response time	25 ms
Backlight	LED
Touch Type	5-wire resistive
Touch Light Transmission	80%
Touch Interface	USB
System 	
Board	ECM-CDV
CPU	Onboard Intel® Atom™ D2550 1.86GHz CPU
Cooling Method	Passive CPU heatsink
System Chipset	Intel® NM10 Chipset
I/O Chip	Nuvoton W83627DHG-P
Memory	One SODIMM Supports Up to 4GB DDR3 1066MHz SDRAM
CF	One CompactFlash Type I/II socket (internal)
HDD/SSD Drive Bay	1 x 2.5" SATA HDD or optional 44-pin IDE HDD
WiFi	Optional USB WIFI 802.11 b/g (occupy one USB port)
Rear Panel I/O 	
Serial Port	1 x RS-232, 1 x RS-232 or optional RS-422/485
Ethernet	2 x RJ-45 (Dual Intel® 82574L Gigabit Ethernet)
HDMI	1 x HDMI
Audio port	1 x Line out, 1 x Mic in
USB	5 x USB 2.0
Mouse & KB	1 x PS/2 keyboard & mouse connector (Optional)
VGA	1 x DB15

Mechanical & Environmental 	
Color	Black
Power Input	100~250 Vdc/ 47~63 Hz
Power Output	+12~+26V DC Power input
Operating Temperature	0°C to 40°C.
Storage Temperature	-10°C to 50°C.
Relative Humidity	10% to 95% @ 40°C , non-condensing
Mounting	Wall/Stand/VESA 75 mm X 75 mm
Dimensions	300mm X 195 mm X 56 mm
Weight	2.95 Kgs

1.4 System Overview

1.4.1 Rear View

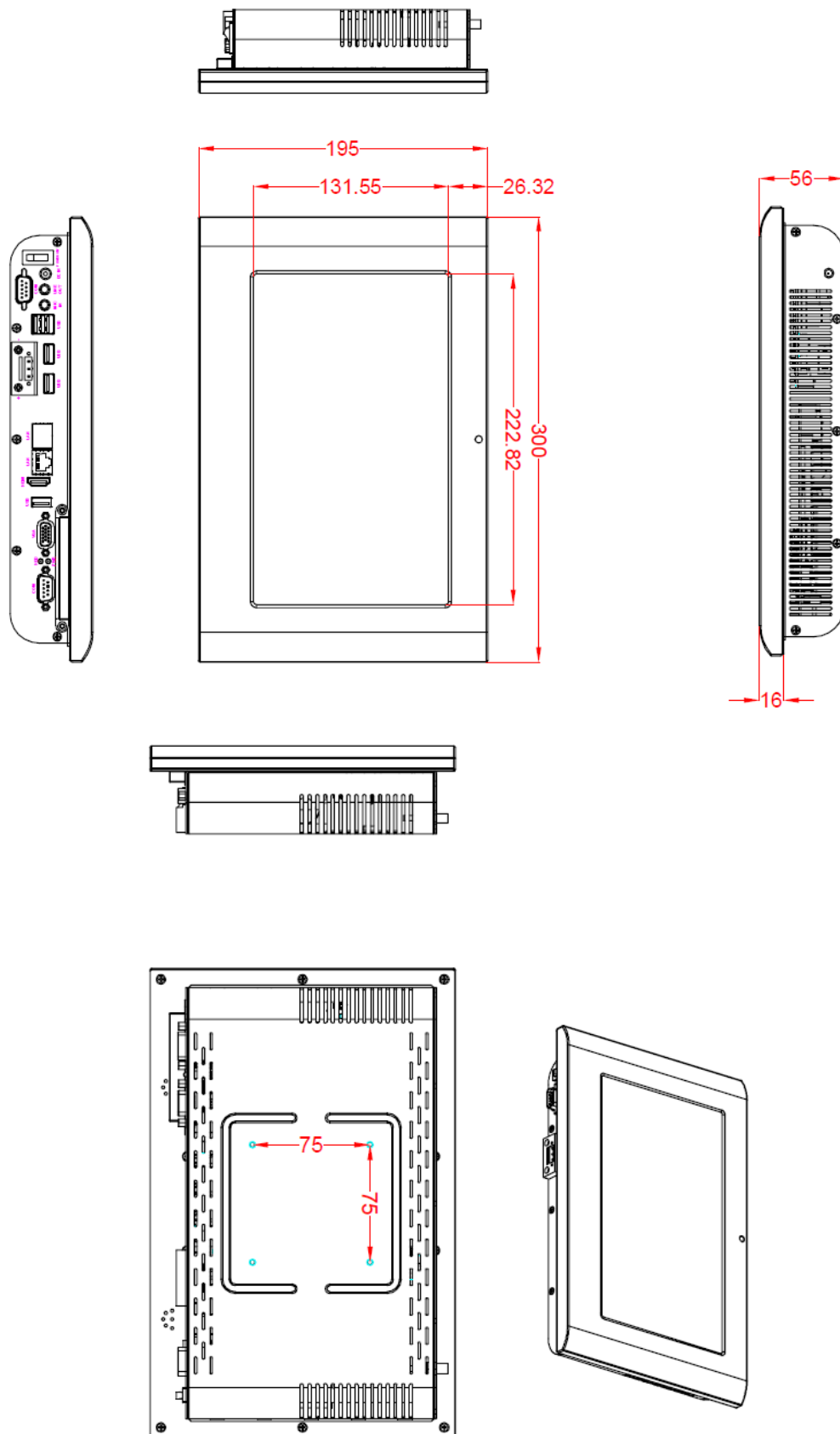


Connectors

Label	Function	Note
CF	CompactFlash Type I/II socket with cover	
COM1/2	Serial port 1 & 2 (Optional RS-422/485 for COM2)	DB-9 male connector
DC in	+12V ~ +26V DC-in power connector	
HDD	HDD LED	
KB/MS	PS/2 keyboard & mouse connector (Optional)	
LAN1	Ethernet connector	RJ-45
LAN2	Ethernet connector (Optional KB/MS for LAN2)	RJ-45
LINE OUT	Line-out audio jack	
Mic In	Mic-in audio jack	
Power S/W	Power switch	
PWR	Power LED	
USB	5 x USB 2.0 connector	
HDMI	HDMI connector	
VGA	VGA connector	
26V DC in	+12V/+26V DC in connector (Optional)	

1.5 System Dimensions

1.5.1 FPC-10W07



(Unit: mm)

2. Hardware Configuration

2.1 Jumper and Connector Setting, Driver and BIOS Installing

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

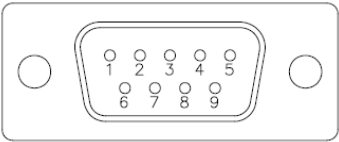
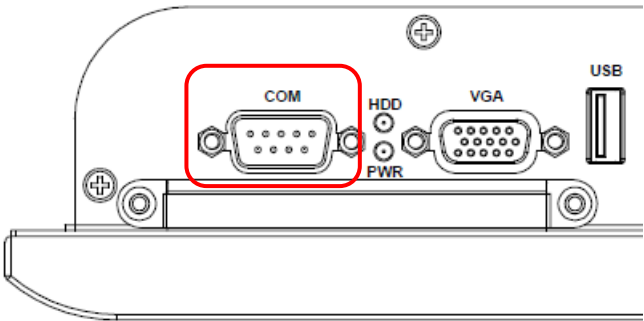


Note: If you need more information, please visit our website:

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

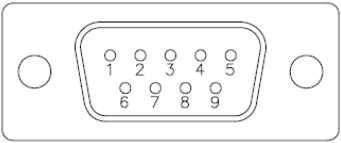
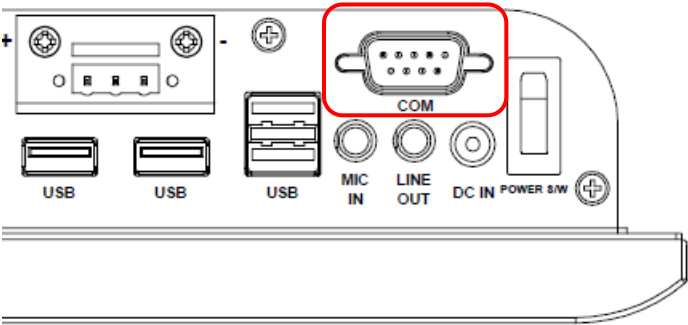
2.2 Installing Hard Disk & Memory

2.2.1 External Serial Port 1 connector (COM1)



Signal	PIN	PIN	Signal
DCDA#	1	2	RXDA
TXDA	3	4	DTRA#
GND	5	6	DSRA#
RTSA#	7	8	CTSA#
RIA#	9		

2.2.2 External Serial Port 2 connector (COM2)



In RS-232 Mode

Signal	PIN	PIN	Signal
DCDB#	1	2	RXDB
TXDB	3	4	DTRB#
GND	5	6	DSRB#
RTSB#	7	8	CTSB#
RIB#	9		

In RS-422 Mode

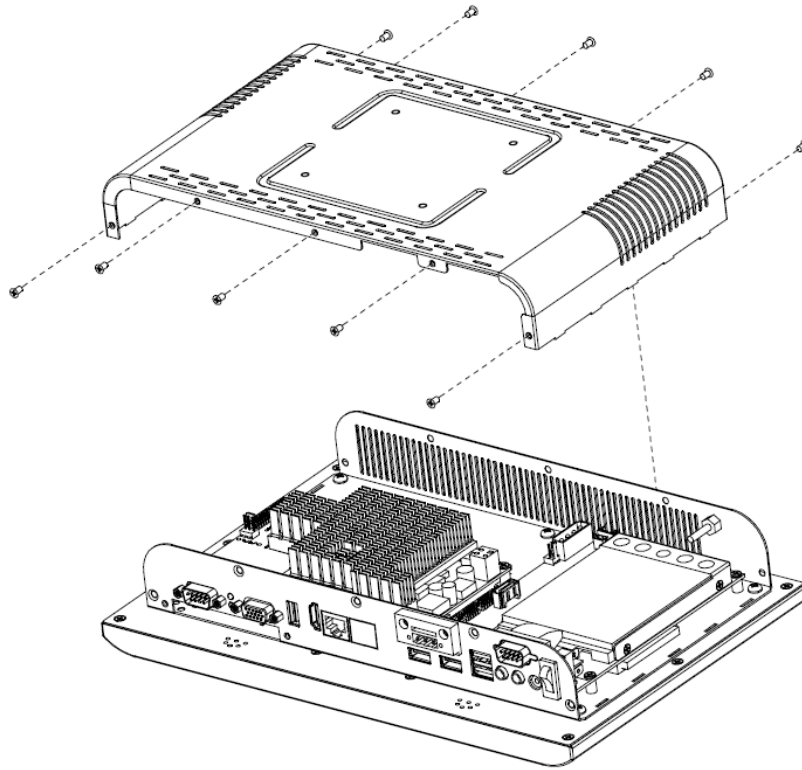
Signal	PIN	PIN	Signal
TxD1-	1	2	RxD1+
TxD1+	3	4	RxD1-
GND	5	6	NC
NC	7	8	NC
NC	9		

In RS-485 Mode

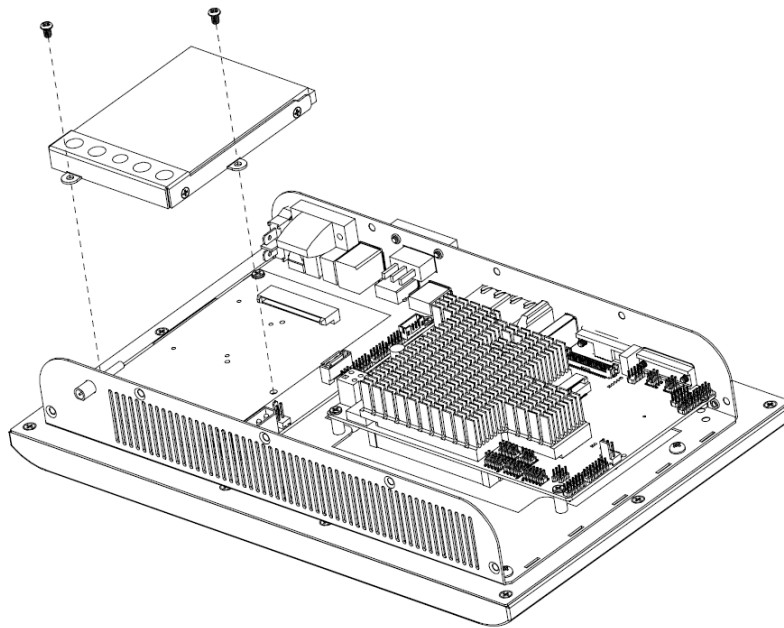
Signal	PIN	PIN	Signal
DATA1-	1	2	NC
DATA1+	3	4	NC
GND	5	6	NC
NC	7	8	NC
NC	9		

2.3 Installing Hard Disk & Memory

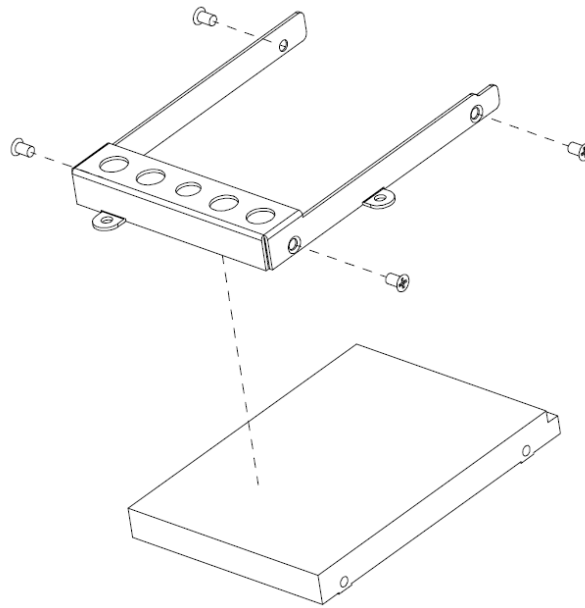
2.3.1 Install 2.5" HDD



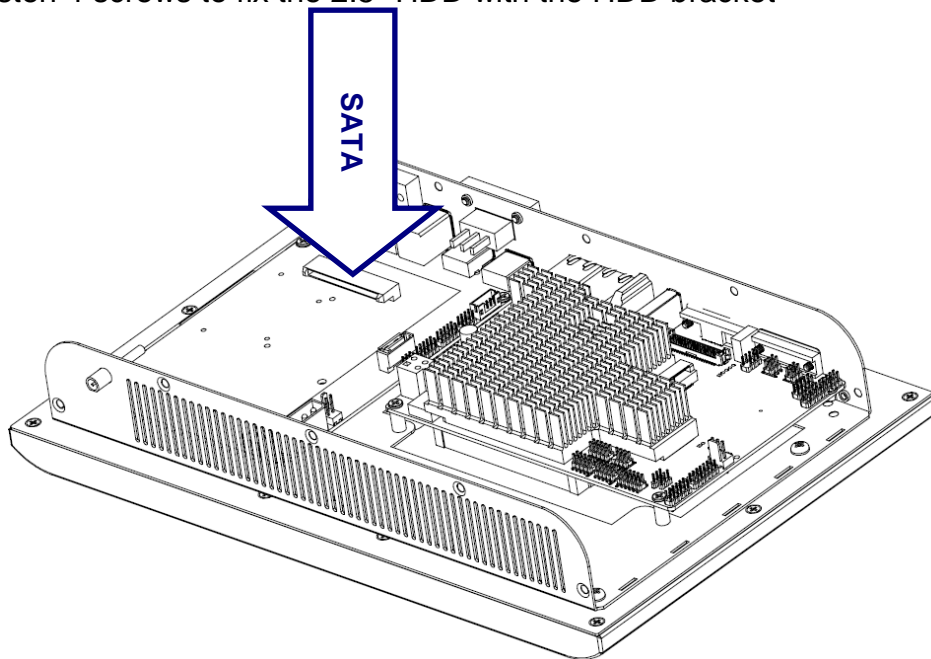
Step 1. Unfasten 10 screws as above to remove the bottom chassis.



Step 2. Unlock 2 screws of the HDD bracket as indicated.



Step 3. Fasten 4 screws to fix the 2.5" HDD with the HDD bracket

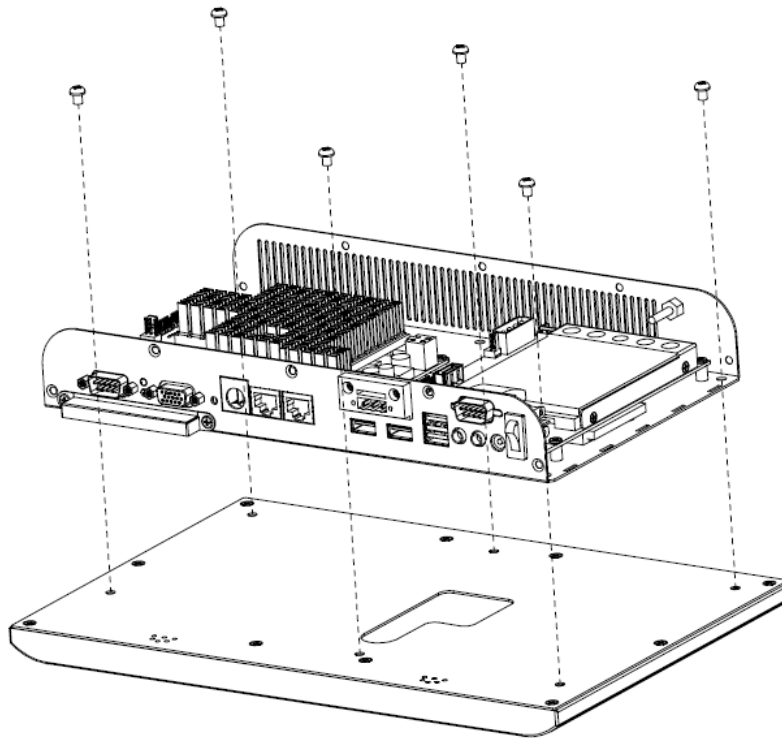


Step 4. Place and plug the HDD assembled to the HDD connector (either one of SATA) and fix the HDD with 2 screws as indicated on **Step 2**.

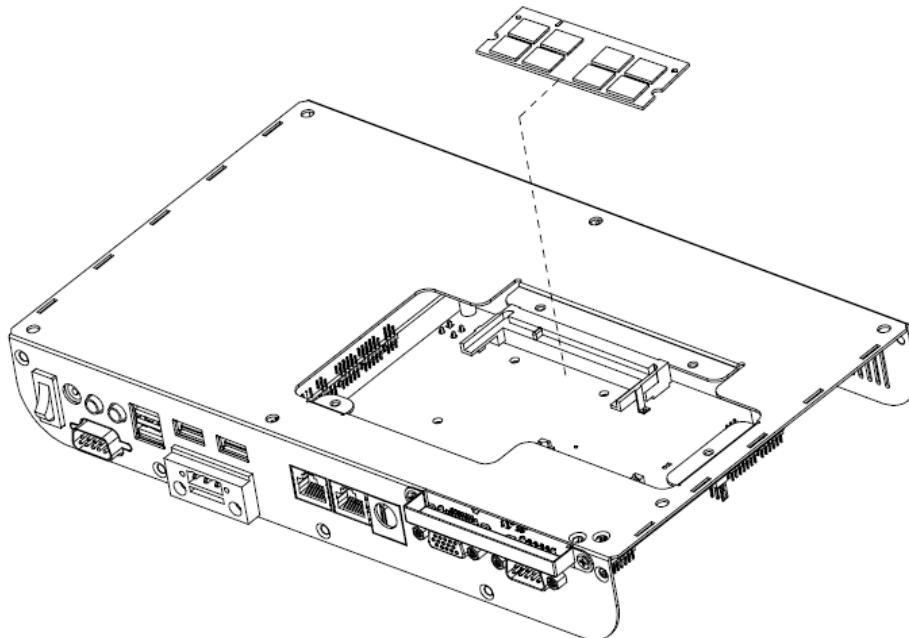


Note: There's only one HDD connector the board and the default is SATA.

2.4 Installing System Memory

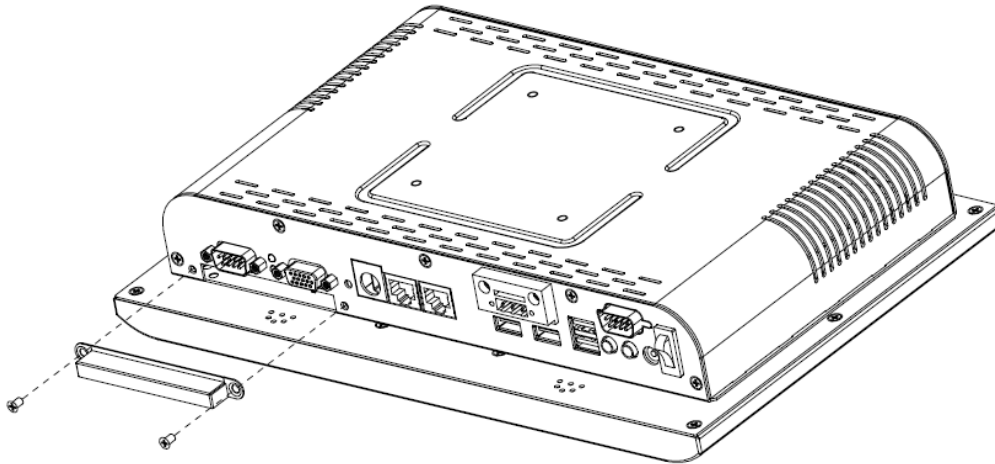


Step 1. Remove 6 screws as above and have the front panel and box pc separated.

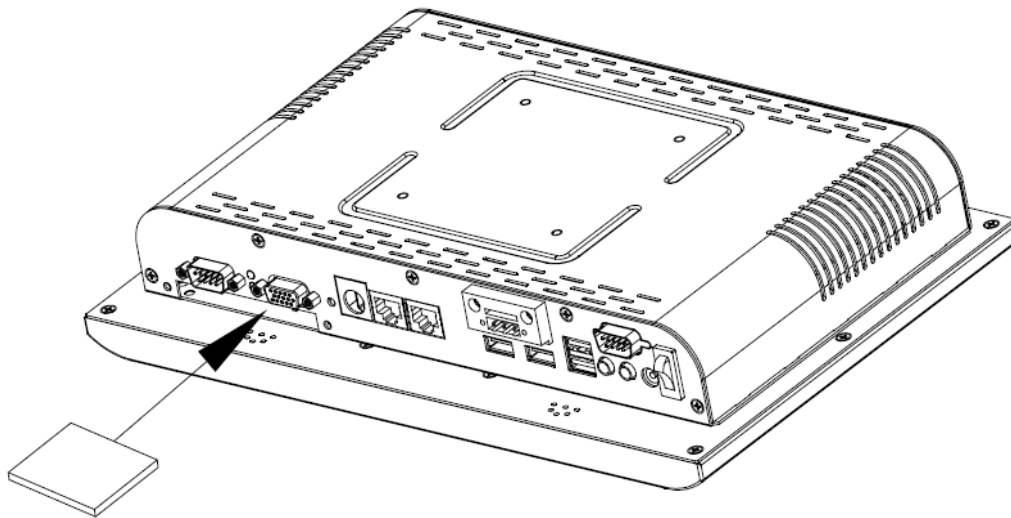


Step 2. Install the system RAM as shown above.

2.5 Installing CF Card



Step 1. Unlock 2 screws from the rear side of the panel PC as above.



Step 2. Put the CF card into the socket and fasten 2 screws back.

