

# **LPC-0805**

**8" Multi-functional Touch Panel Computer**

## **Quick Reference Guide**

**1<sup>st</sup> Ed –22 January 2015**

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## 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.

## 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/>

# Content

<b>1.</b>	<b>Getting Started .....</b>	<b>4</b>
1.1	Safety Precautions .....	4
1.2	Packing List.....	4
1.3	System Specifications .....	5
1.4	System Overview .....	7
1.4.1	Right View.....	7
1.4.2	Bottom View.....	7
1.5	System Dimensions .....	8
<b>2.</b>	<b>Hardware Configuration .....</b>	<b>9</b>
2.1	LPC-0805 connector mapping .....	10
2.1.1	VGA connector (VGA) .....	10
2.1.2	Serial port 1 connector (COM1).....	10
2.1.3	Serial port 2 connector (COM2).....	11
2.2	Installing Memory .....	12
2.3	Installing CF Card.....	14

# 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-0805 Panel PC
- 1 x Driver/Utility DVD-ROM
- 1 x Power Adapter
- 4 x screws for VESA







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

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## 1.3 System Specifications

<b>Panel</b> 	
LCD size	8"
Display type	SVGA TFT
Resolution	800 x 600
Pixel pitch	0.0675mm(H) x 0.2025mm(V)
Luminance	500 cd/m <sup>2</sup>
Contrast ratio	500
Viewing angle	50(U), 70(D), 70(L), 70(R)
Response time	25 ms
Backlight	LED
Touch type	5 Wires resistive
Touch Light Transmission	80%
Touch interface	USB (PenMount)
<b>System</b> 	
Board	ECM-PNV
CPU	Intel® Pineview D525 1.8GHz CPU
System Chipset	Intel® ICH8-M
I/O Chipset	Winbond W83627DHG
Memory	One SODIMM Socket Supports Up to 4GB DDR3 800MHz SDRAM
SSD	One CompactFlash Type I/II Socket
Expansion	1 x Mini PCIe (mSATA Supported)
<b>Rear I/O</b> 	
Serial Port	1 x RS-232, 1 x RS-232 or Optional RS-422/485
Ethernet	Intel® 82574L Gigabit LAN (optional dual 82574L Gigabit LAN)
WIFI	Optional USB WiFi 802.11 b/g
VGA	1 x DB-15
Audio	Line out (ALC888)
USB	4 x USB 2.0
Mouse & KB	1 x PS/2 Keyboard connector (optional)
<b>Mechanical &amp; Environment</b> 	
Color	Front panel Silver
Mounting	Rear panel Black
System Power Requirement	+12 V ~ +26 V

## LPC-0805

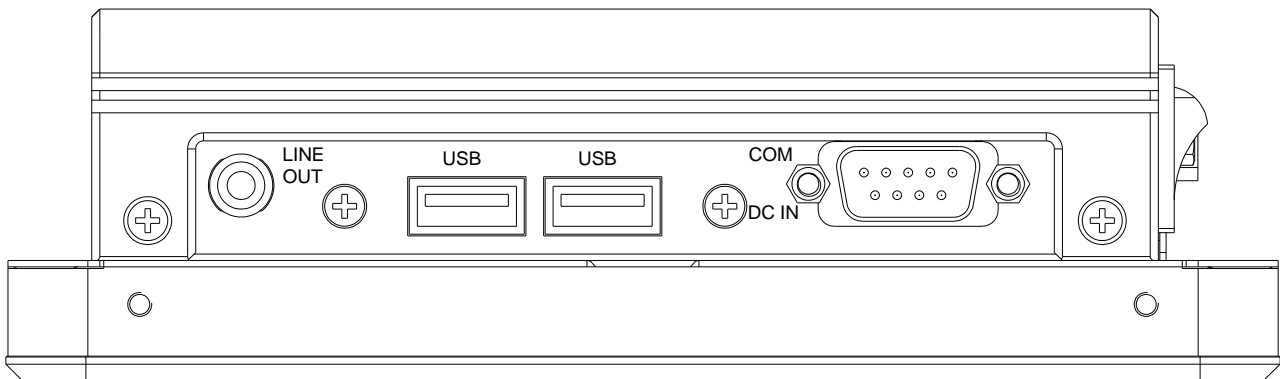
<b>Power Adapter</b>	Input: 100~240 Vac/ 50~60 Hz Output: +12 Vdc / 5 A (60W)
<b>Operating Temp.</b>	0°C to 40°C
<b>Storage Temp.</b>	-20°C to 60°C
<b>Relative Humidity</b>	10% to 95% @ 40°C, non-condensing
<b>Mounting</b>	Wall/Stand/VESA 75 mm X 75 mm
<b>Dimensions</b>	202.5 x 159.5 x 46.5 mm
<b>Weight</b>	1.5 Kgs



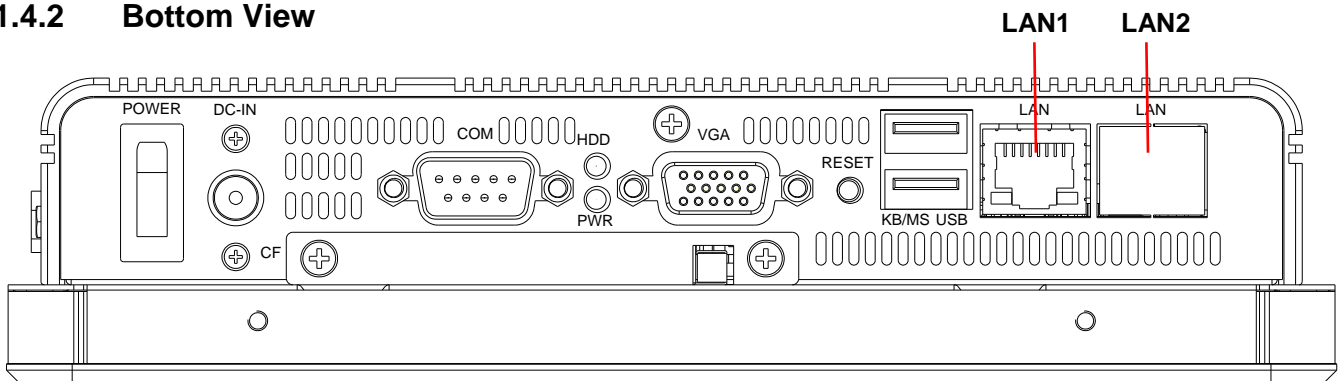
**Note:** Specifications are subject to change without notice.

## 1.4 System Overview

### 1.4.1 Right View



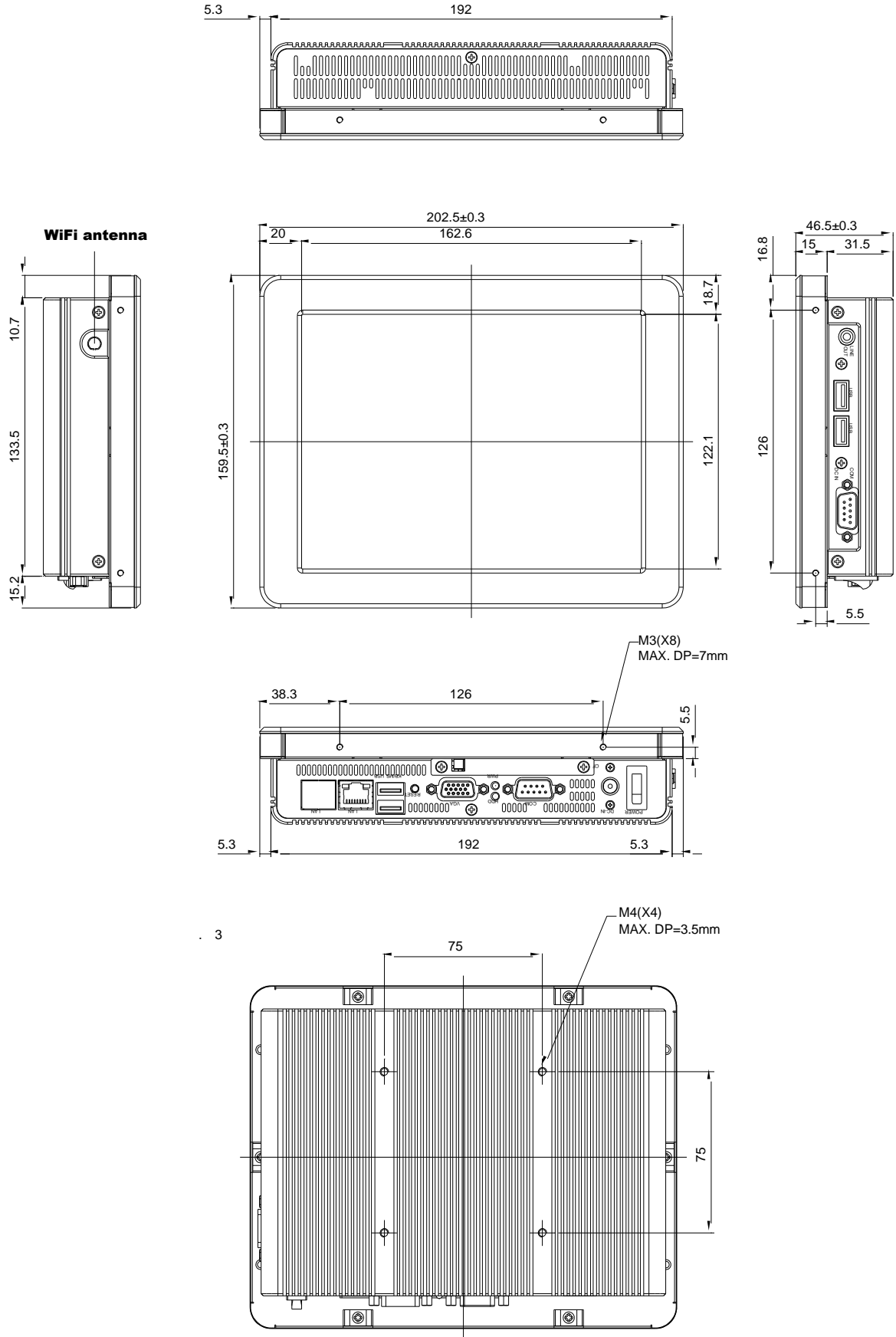
### 1.4.2 Bottom View



## Connectors

Label	Function	Note
<b>POWER</b>	Power on button	
<b>CF</b>	CF Type I/II Socket with Ejector	
<b>COM1/2</b>	Serial port 1/2 connector	DB-9 male connector <b>Note :</b> COM2 supports RS422/485 by BIOS setting and needs to change cable.
<b>LINE OUT</b>	Line-out audio jack	
<b>USB</b>	USB 2.0 connector x 4	
<b>LAN</b>	RJ-45 Ethernet connector x 2	
<b>KB/MS/USB</b>	PS/2 keyboard & mouse connector (optional) 2 x USB 2.0 connector (default)	
<b>HDD</b>	HDD indicator	
<b>PWR</b>	System power indicator	
<b>VGA</b>	VGA connector	
<b>Reset</b>	Reset button	
<b>DC-IN</b>	DC Power-in connector	

1.5 System Dimensions



(Unit: mm)

## 2. Hardware Configuration

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For advanced information, please refer to:

- 1- ECM-PNV User's Manual

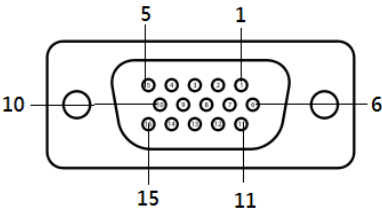
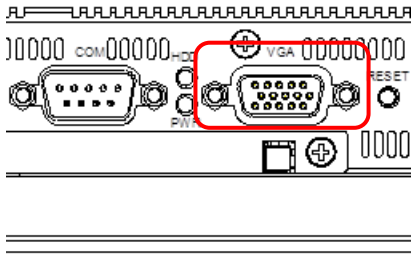


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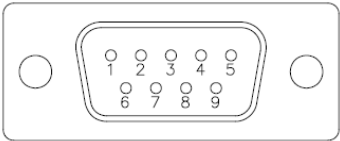
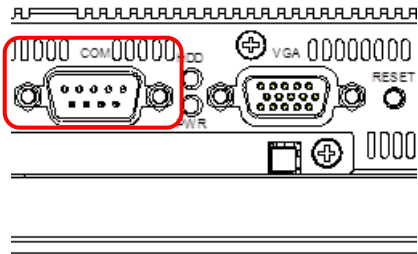
2.1 LPC-0805 connector mapping

2.1.1 VGA connector (VGA)



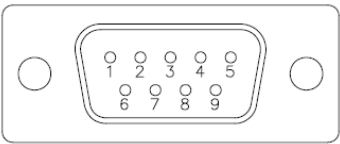
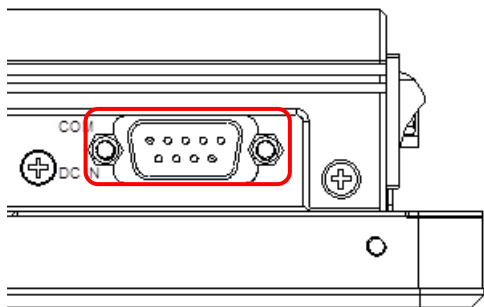
PIN	Signal	PIN	Signal	PIN	Signal
1	R	6	GND	11	NC
2	G	7	GND	12	DATA
3	B	8	GND	13	HSYNC
4	NC	9	+5V	14	VSYNC
5	GND	10	GND	15	CLK

2.1.2 Serial port 1 connector (COM1)



Signal	PIN	PIN	Signal
ND CD#	1	6	ND SR#
NRXD	2	7	NR TS#
NTXD	3	8	NC TS#
NDTR#	4	9	NR I#
GND	5		

2.1.3 Serial port 2 connector (COM2)



RS-232

Signal	PIN	PIN	Signal
DCD	1	6	DSR
RXD	2	7	RTS
TXD	3	8	CTS
DTR	4	9	RI
GND	5		

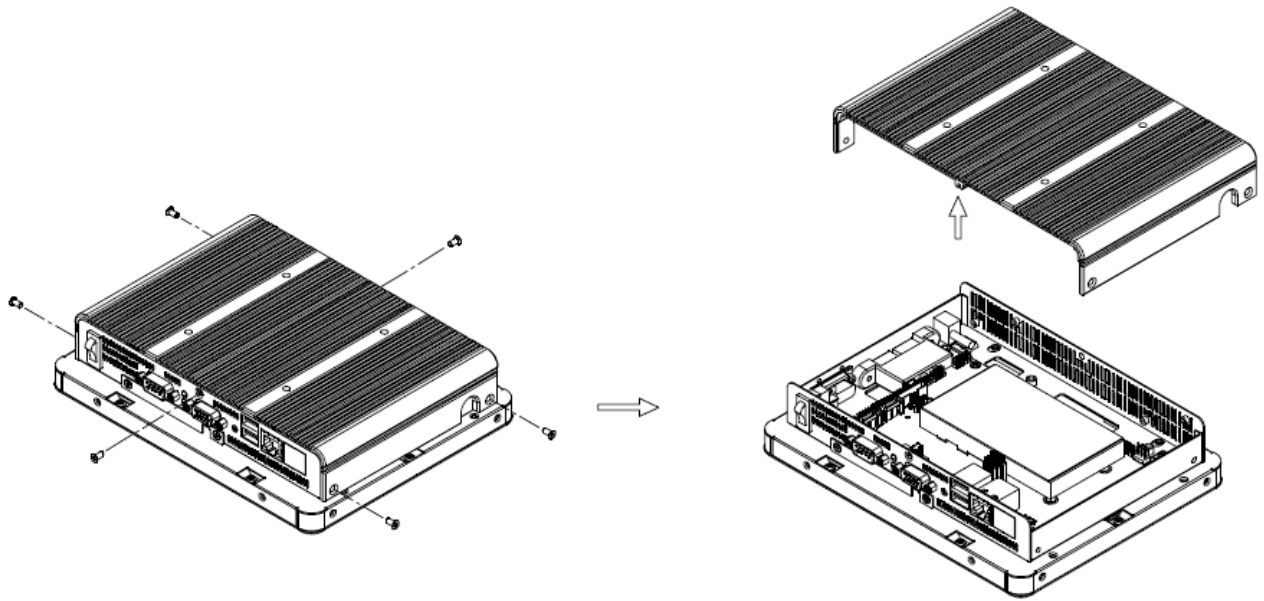
RS-422

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

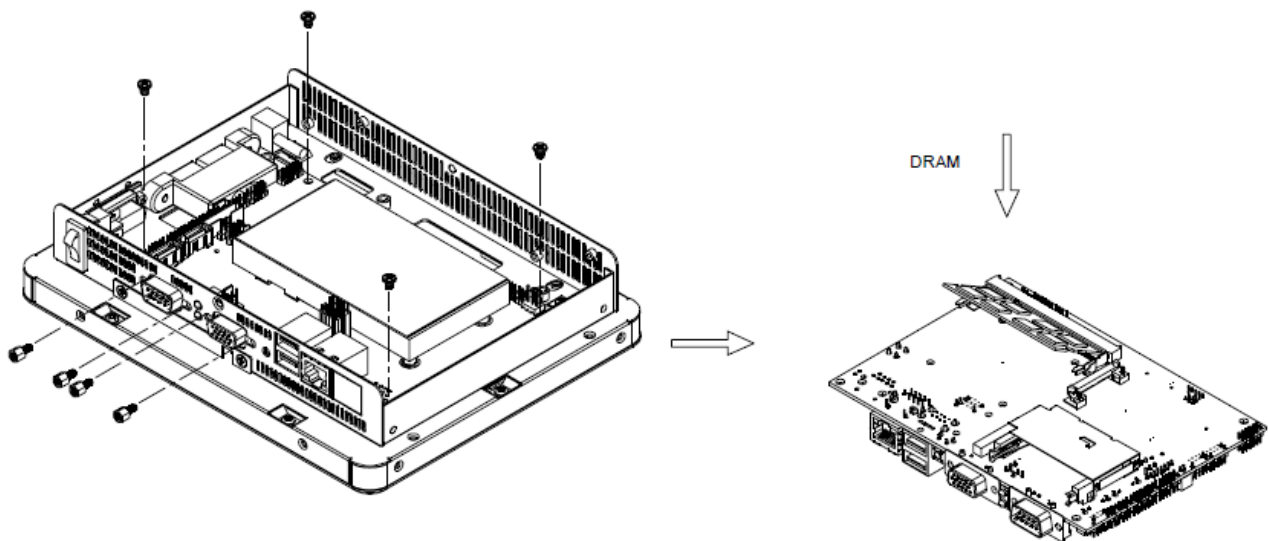
RS-485

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

## 2.2 Installing Memory

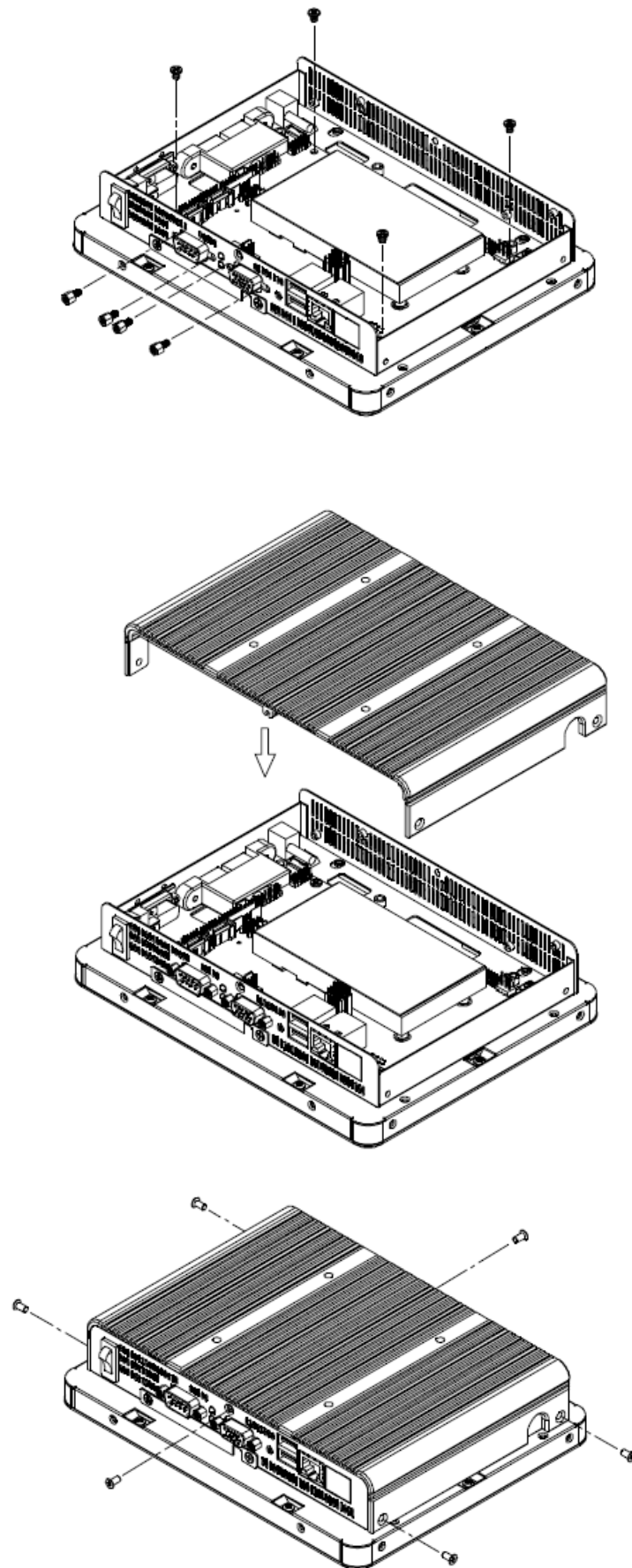


**Step 1.** Unfasten 6 screws to remove the back cover.



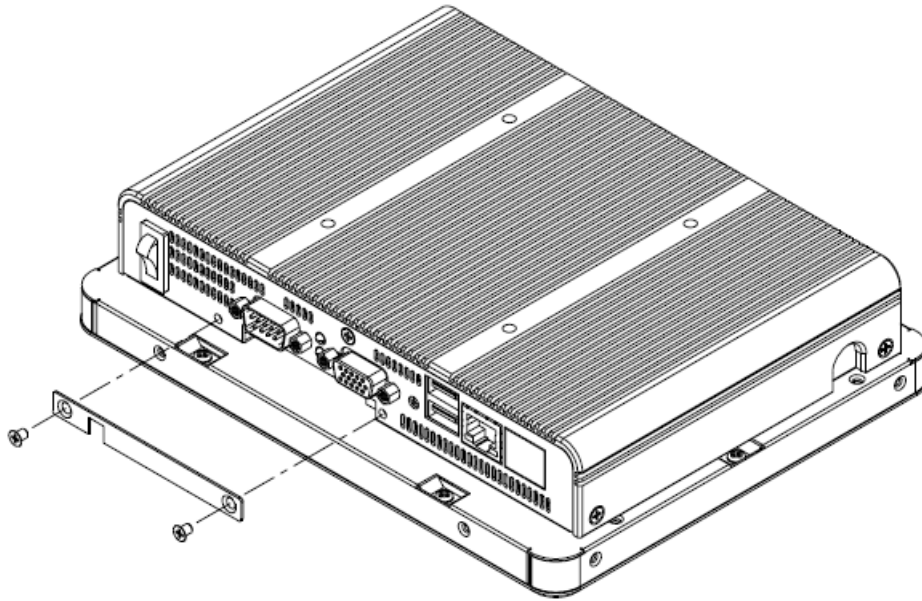
**Step 2.** Unlock 4 coppers from the rear I/O of VGA & COM ports.

**Step 3.** Release 4 screws to take off the board, and install the RAM module into the memory slot.

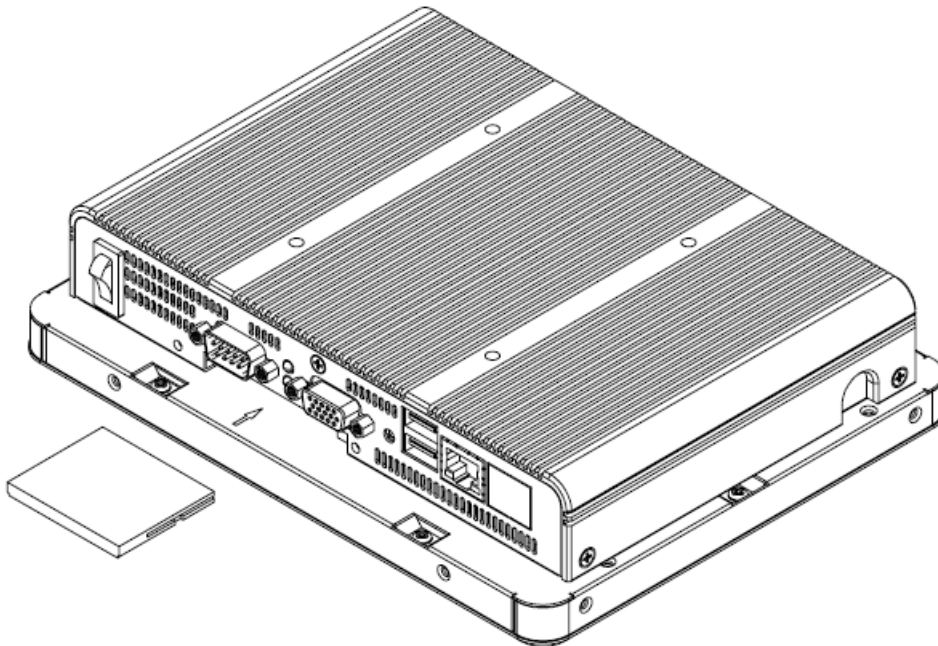


**Step 4.** Assemble the board and back cover back as step 3 to step 1.

## 2.3 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.

