

# PPC 10"/12" Series

10.4"/12.1" Multifunctional Touch Panel PC

## Quick Reference Guide

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1<sup>st</sup> Ed – 26 June 2009

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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 PPC 10"/12" 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
- 1 x Stand for Panel PC (optional)





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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

Panel 				
Model	<b>12</b>		<b>10</b>	
LCD size	12.1", 4:3		10.4", 4:3	
Display type	SVGA	XGA	SVGA	XGA
Resolution	800 x 600	1024 x 768	800 x 600	1024 x 768
Color	262K	262K	262K	262K
Pixel pitch	0.3075mm(H) x 0.3075mm(V)	0.240mm(H) x 0.240mm(V)	0.264mm(H) x 0.264mm(V)	0.20625mm(H) x 0.20625mm(V)
Luminance	450 cd/m <sup>2</sup>	450 cd/m <sup>2</sup>	230 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>
Contrast ratio	1000	700	500	500
Viewing angle	89(U), 89(D), 89(L), 89(R)	80(U), 80(D), 80(L), 80(R)	55(U), 65(D), 70(L), 70(R)	60(U), 60(D), 70(L), 70(R)
Response time	25 ms	25 ms	25 ms	25 ms
Backlight	CCFL	CCFL	CCFL	CCFL
Touch type	5 Wires resistive	5 Wires resistive	4 Wires resistive	5 Wires resistive
Touch interface	USB		USB	
System 				
Board	EBM-CX700			
CPU	Onboard VIA Eden ULV 1GHz (3.5W), up to 1.6GHz (8W) CPU			
BIOS	Award, 512KB Flash BIOS			
System Chipset	VIA CX700M			
I/O Chipset	VIA VT1211			
System Memory	One 200-pin DDR2 SODIMM socket, supports up to 1GB DDR2 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	VIA CX700M			
Audio	VIA VT1708A supports 2CH Audio			
Ethernet	Dual RTL8110SC Gigabit LAN/10/100/1000 Base-Tx Fast Ethernet compatible			

External I/O Ports		
COM Port	1 x RS-232	
Ethernet Port	Dual RTL8110SC 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 Output	5A (60W)	
Environment & Mechanical		
Operating Temperature	-10~60 °C (14~140 °F)	0~40 °C (32~104 °F)
Storage Temperature	-20 to +75 °C (-4~167 °F)	-20 to +75 °C (-4~167 °F)
Relative Humidity	5 to 90% @ 40 °C (104 °F), relative humidity, non-condensing	
Dimension (W x D x H)	283 x 222x 45 mm	259 x 196 x 41mm
Weight	2.84 Kgs	2.11 Kgs
Mounting	Desktop (VESA Compliance)	

## PPC 10"/12" Series 03 Version

Panel 				
Model	<b>12</b>		<b>10</b>	
LCD size	12.1", 4:3		10.4", 4:3	
Display type	SVGA	XGA	SVGA	XGA
Resolution	800 x 600	1024 x 768	800 x 600	1024 x 768
Color	262K	262K	262K	262K
Pixel pitch	0.3075mm(H) x 0.3075mm(V)	0.240mm(H) x 0.240mm(V)	0.264mm(H) x 0.264mm(V)	0.20625mm(H) x 0.20625mm(V)
Luminance	450 cd/m <sup>2</sup>	450 cd/m <sup>2</sup>	230 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>
Contrast ratio	1000	700	500	500
Viewing angle	89(U), 89(D), 89(L), 89(R)	80(U), 80(D), 80(L), 80(R)	55(U), 65(D), 70(L), 70(R)	60(U), 60(D), 70(L), 70(R)
Response time	25 ms	25 ms	25 ms	25 ms
Backlight	CCFL	CCFL	CCFL	CCFL
Touch type	5 Wires resistive	5 Wires resistive	4 Wires resistive	5 Wires resistive
Touch interface	USB		USB	
System 				
Board	EMB-945GSE			
CPU	Onboard Intel Atom N270 1.6GHz (2.5W)			
BIOS	Award 4 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			

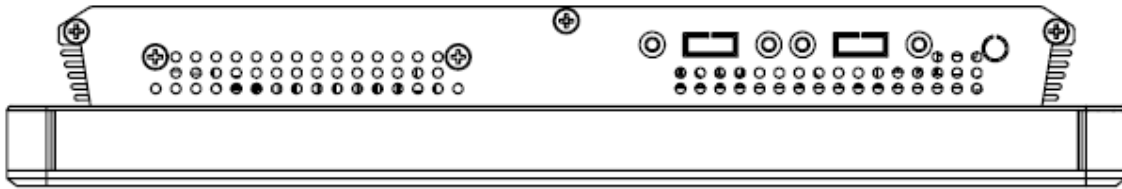
External I/O Ports		
COM Port	1 x RS-232/422/485 setting by BIOS*, optional extra 1 x RS-232/422/485	
Ethernet Port	Dual RTL8111C Giga LAN	
VGA / LCD Port	1 x DB-15	
Audio Port	Line-out	
USB Port	2 x USB 2.0	
Power Supply Unit		
Power Input	12V	
Power Output	5A (60W)	
Environment & Mechanical		
Operating Temperature	0~60°C (32~140°F)	0~40°C (32~104°F)
Storage Temperature	-20 to +75°C (-4~167°F)	-20 to +75°C (-4~167°F)
Relative Humidity	5 to 90% @ 40°C (104°F), relative humidity, non-condensing	
Dimension (W x D x H)	283 x 222x 45 mm	259 x 196 x 41mm
Weight	2.84 Kgs	2.11 Kgs
Mounting	Desktop (VESA Compliance)	



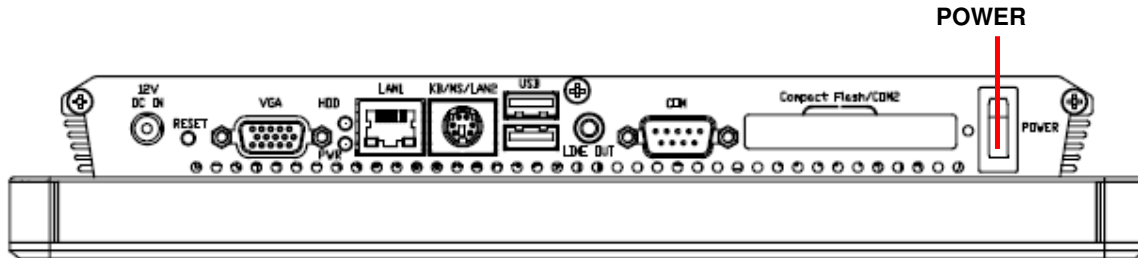
**Note:** \*To know more detail of RS232/422/485 setting by BIOS, please refer to chapter 2.1.

## 1.4 System Overview

### 1.4.1 Front View



### 1.4.2 Rear View

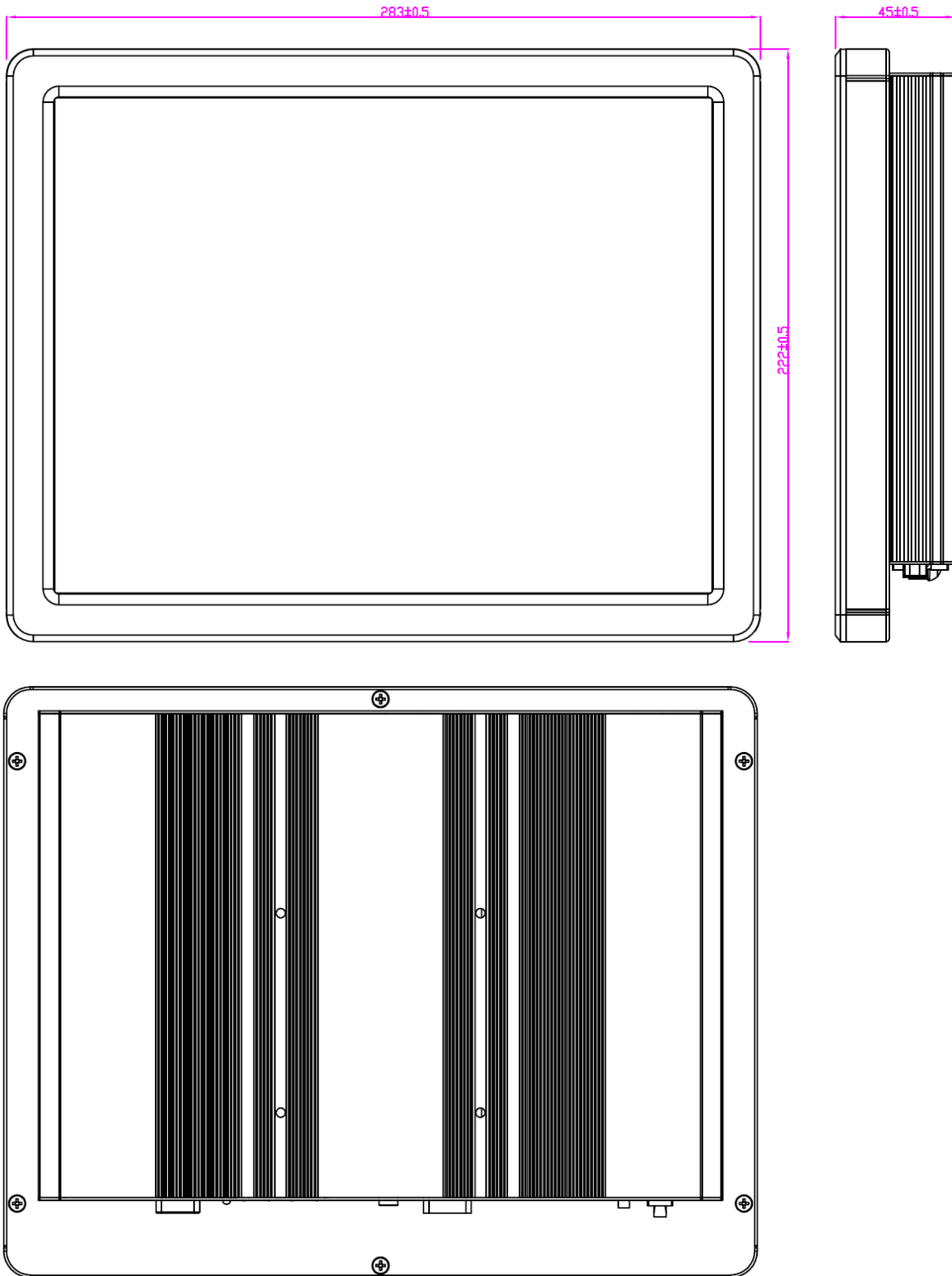


## Connectors

Label	Function	Note
<b>POWER</b>	Power on button	
<b>CF</b>	CF Type I/II Socket with Ejector	Optional for 2 <sup>nd</sup> COM port
<b>COM</b>	Serial port	DB-9 male connector
<b>LINE OUT</b>	Line-out audio jack	
<b>USB</b>	2 x USB 2.0 connector	Dock USB
<b>LAN1</b>	RJ-45 Ethernet connector 1	
<b>LAN2</b>	RJ-45 Ethernet connector 2	
<b>(KB/MS)</b>	<a href="#">(LAN2 is default, KB/MS is optional)</a>	
<b>HDD</b>	HDD indicator	
<b>PWR</b>	System power indicator	
<b>VGA</b>	CRT connector	DB-15 female connector
<b>RESET</b>	Reset button	
<b>DC-IN</b>	DC Power-in connector	

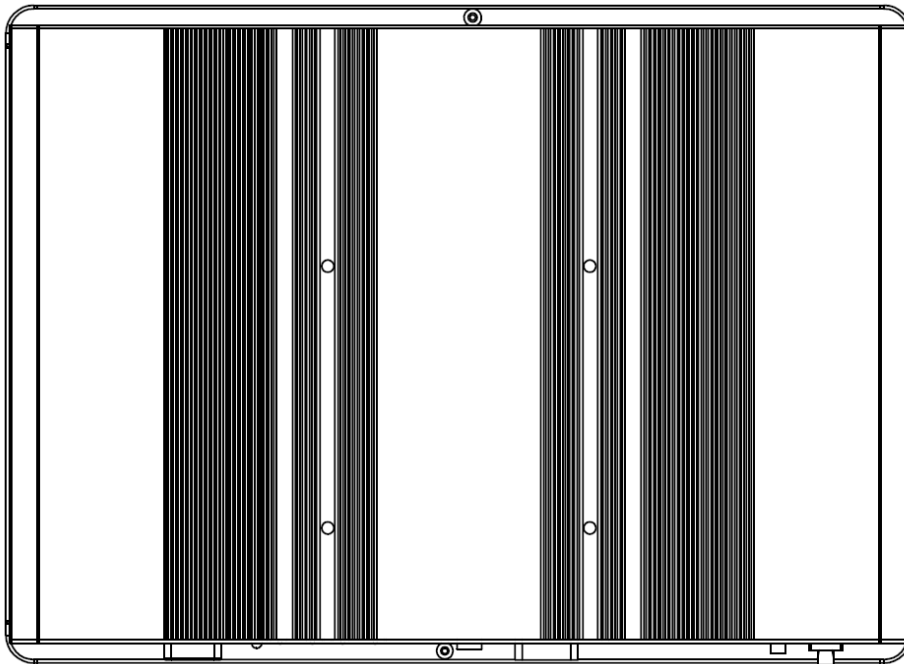
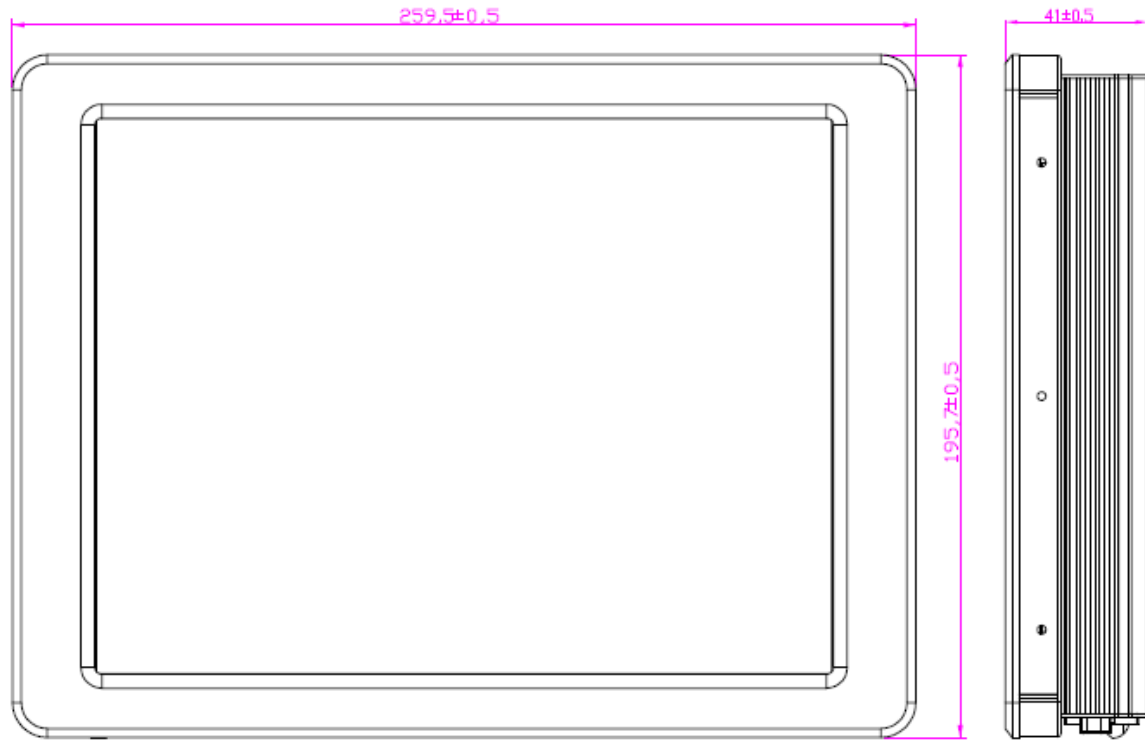
## 1.5 System Dimensions

### 1.5.1 PPC-1201/1203 Front side and rear



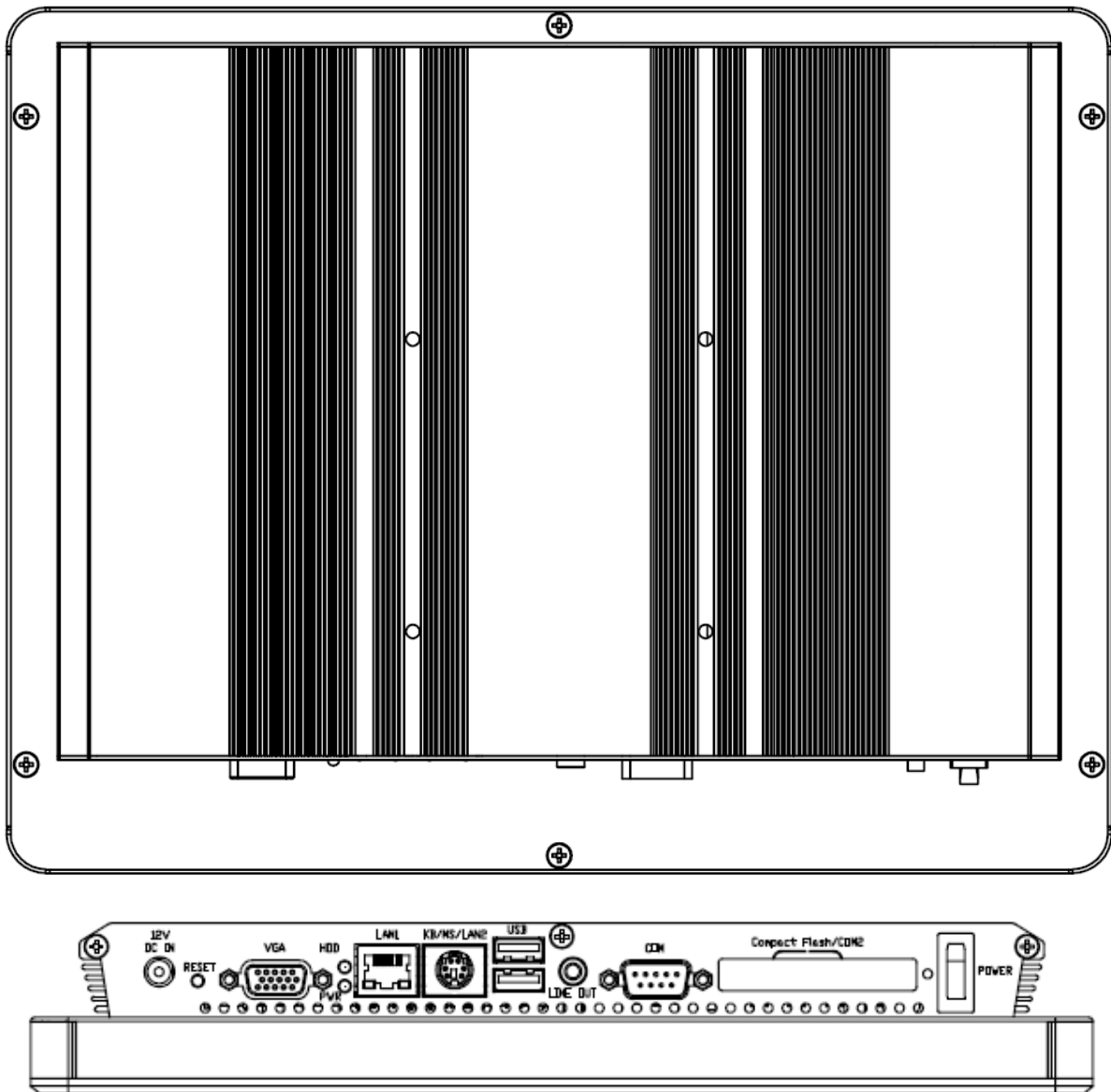
# PPC 10"/12" Series

## 1.5.2 SL-PPC-1001/1003 Front side and rear



(Unit: mm)

1.5.3 Bottom and Rear



# 2. Hardware Configuration

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

<http://www.superlogics.com>

## 2.1 Jumper and Connector Setting , Driver and BIOS Installing

### 2.1.1 PPC-1003/1203 RS232/422/485 setting by BIOS

The COM port setting of PPC-1003/1203, which applying EMB-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		Item Help
SuperIO Device		Menu Level ▶
Onboard Serial Port 1	[3F8/IRQ4]	
COM1 232/422/485	[RS232]	
Onboard Serial Port 2	[2F8/IRQ3]	
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]	

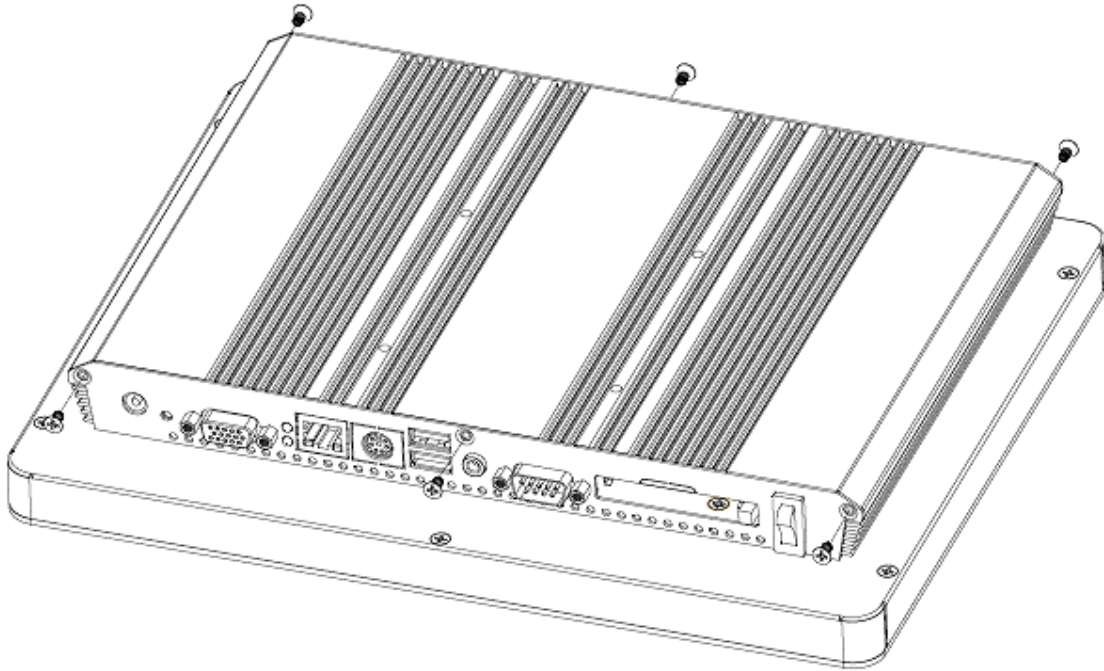
The panel backlight of SL-PPC-1003/1203, which applying EMB-945GSE M/B, can be configured by BIOS as well. The path is shown as below.

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

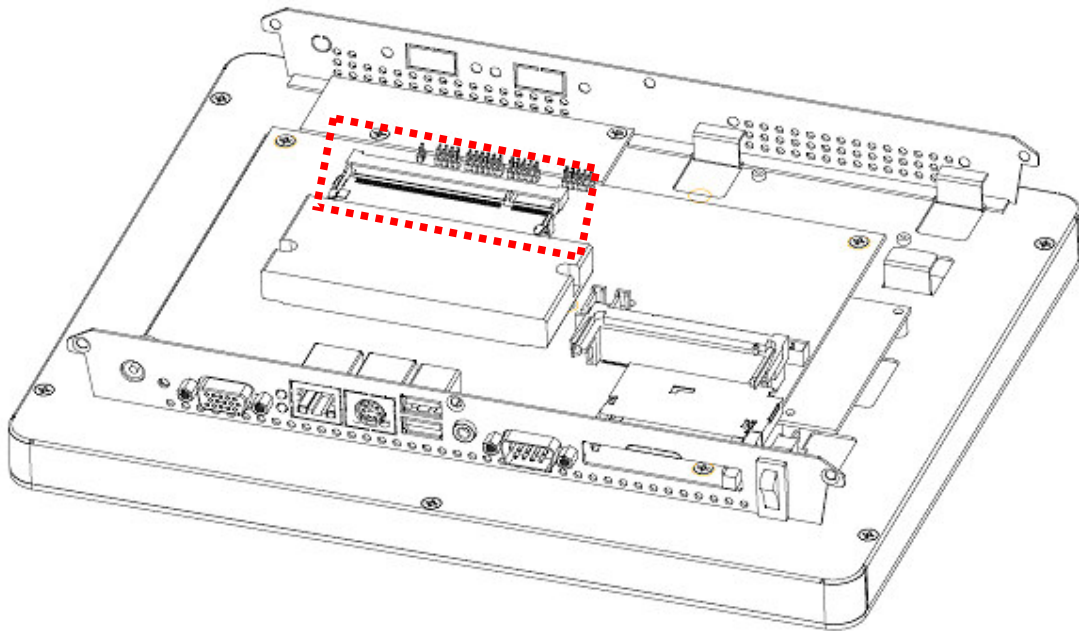
To know more about other settings, please refer to **EMB-CX700**, **EMB-945GSE** Quick Installation Guide or User's Manual.

## 2.2 Installing Hard Disk & Memory

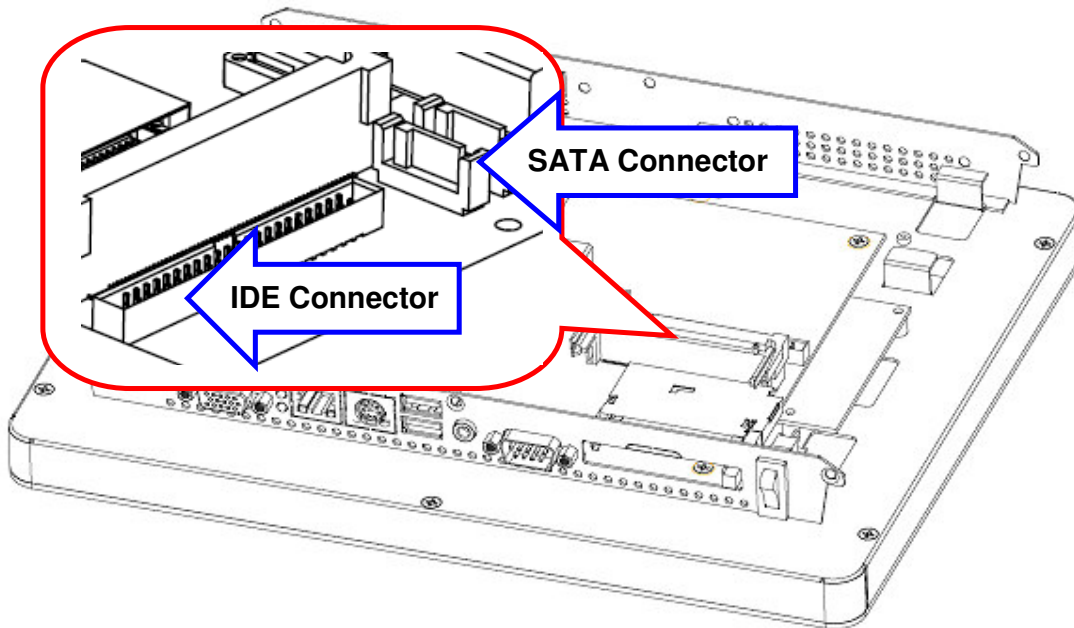
**Step 1.** Unfasten 6 screws from the case. Then take off the top chassis.



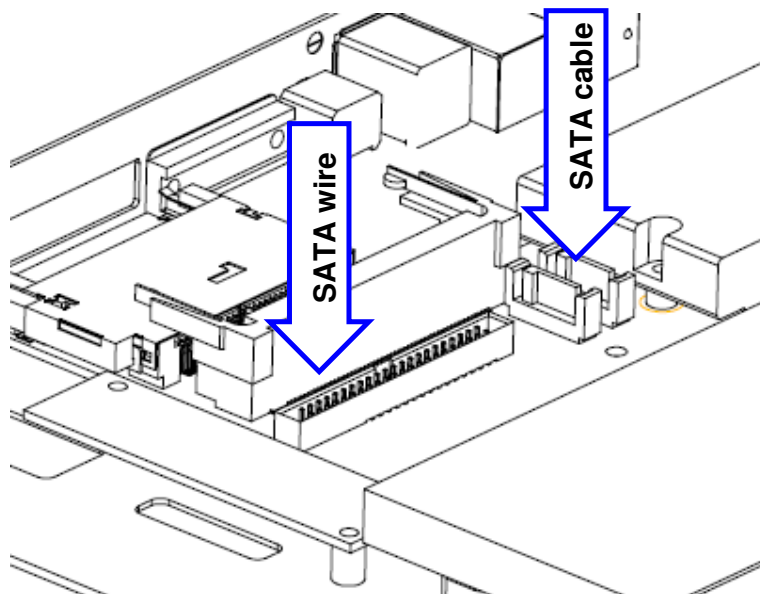
**Step 2.** Insert the SODIMM into the memory socket.



**Step 3-1. HDD Installation:** Insert the cable to connect the HDD and the SATA connector.

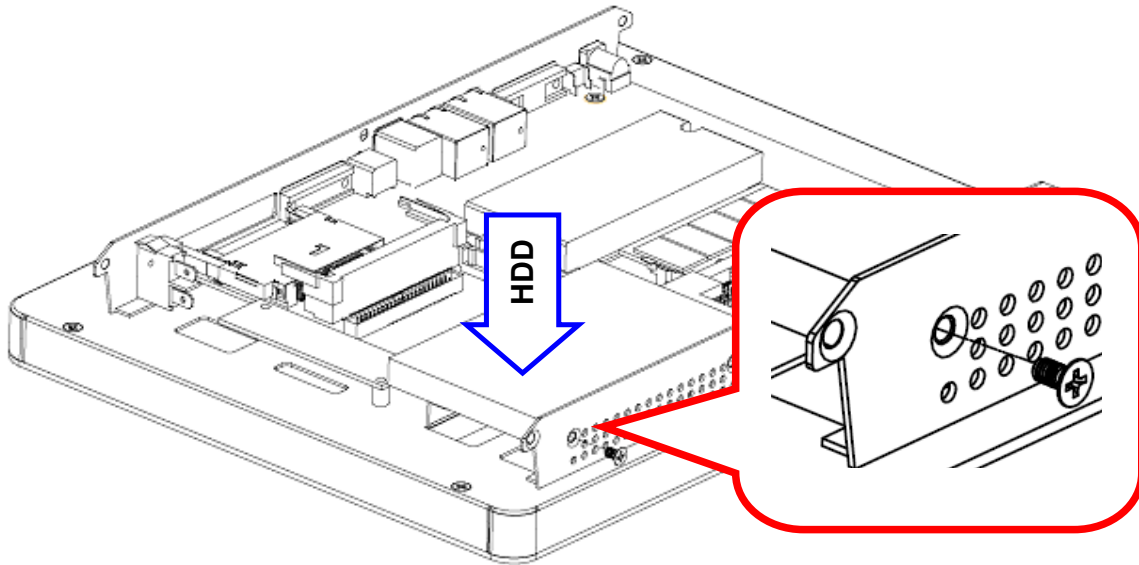


**Step 3-2. SATA HDD Installation:** By default, the SATA cables had been inserted to the according connectors. Just connect to SATA HDD with the two cables.



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**Step 3-3.** Insert the HDD into the Drive Bay. Remember to place the HDD down to the bottom exactly in order to screw the device tightly.



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

