

LPC 10"/12" Series

10.4"/12.1" Multifunctional Touch Panel PC

Quick Reference Guide

1st Ed – 26 June 2009

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Contents

1. Getting Started	3
1.1 Safety Precautions	3
1.2 Packing List.....	3
1.3 System Specifications	4
1.4 System Overview	8
1.4.1 Front View.....	8
1.4.2 Rear View	8
1.5 System Dimensions	9
1.5.1 LPC-1201/1203 Front side and rear	9
1.5.2 LPC-1001/1003 Front side and rear	10
1.5.3 Bottom and Rear.....	11
2. Hardware Configuration	12
2.1 Jumper and Connector Setting , Driver and BIOS Installing	13
2.2 Installing Hard Disk & Memory	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 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)





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

1.3 System Specifications

Panel 		
Model	LPC-1201	LPC-1001
LCD size	12.1", 4:3	10.4", 4:3
Display type	SVGA	XGA
Resolution	800 x 600	1024 x 768
Color	262K	262K
Pixel pitch	0.3075mm(H) x 0.3075mm(V)	0.20625mm(H) x 0.20625mm(V)
Luminance	450 cd/m ²	300 cd/m ²
Contrast ratio	1000	500
Viewing angle	89(U), 89(D), 89(L), 89(R)	60(U), 60(D), 70(L), 70(R)
Response time	25 ms	25 ms
Backlight	CCFL	CCFL
Touch type	5 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)	

LPC 10"/12" Series

Panel 		
Model	LPC-1203	LPC-1003
LCD size	12.1", 4:3	10.4", 4:3
Display type	XGA	XGA
Resolution	1024 x 768	1024 x 768
Color	262K	262K
Pixel pitch	0.3075mm(H) x 0.3075mm(V)	0.20625mm(H) x 0.20625mm(V)
Luminance	450 cd/m ²	300 cd/m ²
Contrast ratio	1000	500
Viewing angle	80(U), 80(D), 80(L), 80(R)	60(U), 60(D), 70(L), 70(R)
Response time	25 ms	25 ms
Backlight	CCFL	CCFL
Touch type	5 Wires resistive	5 Wires resistive
Touch interface	USB	USB
System 		
Board	EBM-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	

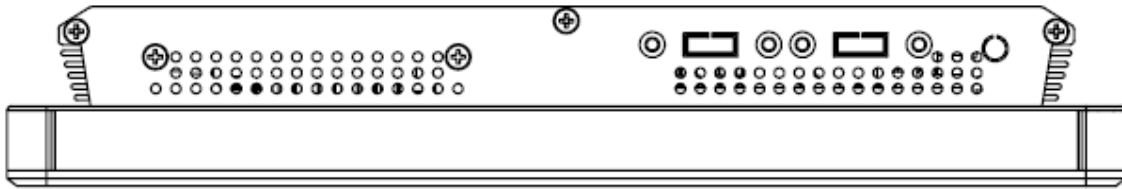
External I/O Ports		
COM Port	1 x RS-232/422/485 setting by BIOS*, optional extra 1 x RS-232/422/485	
Ethernet Port	Dual RTL8111C Giga LAN	
VGA / LCD Port	1 x DB-15	
Audio Port	Line-out	
USB Port	2 x USB 2.0	
Power Supply Unit		
Power Input	12V	
Power Output	5A (60W)	
Environment & Mechanical		
Operating Temperature	-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)
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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)	



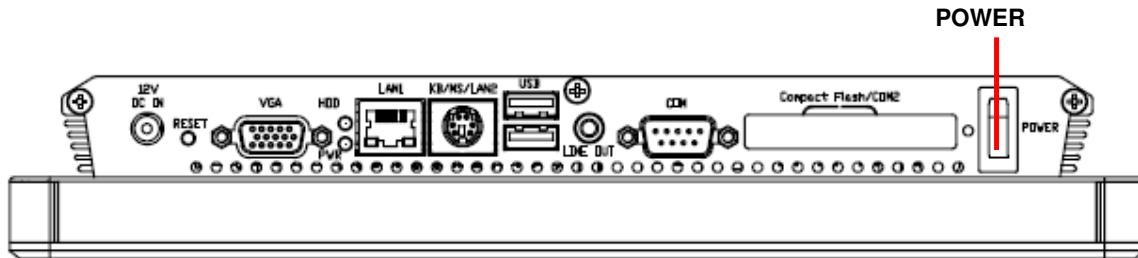
Note: *To know more detail of RS232/422/485 setting by BIOS, please refer to chapter 2.1.

1.4 System Overview

1.4.1 Front View



1.4.2 Rear View

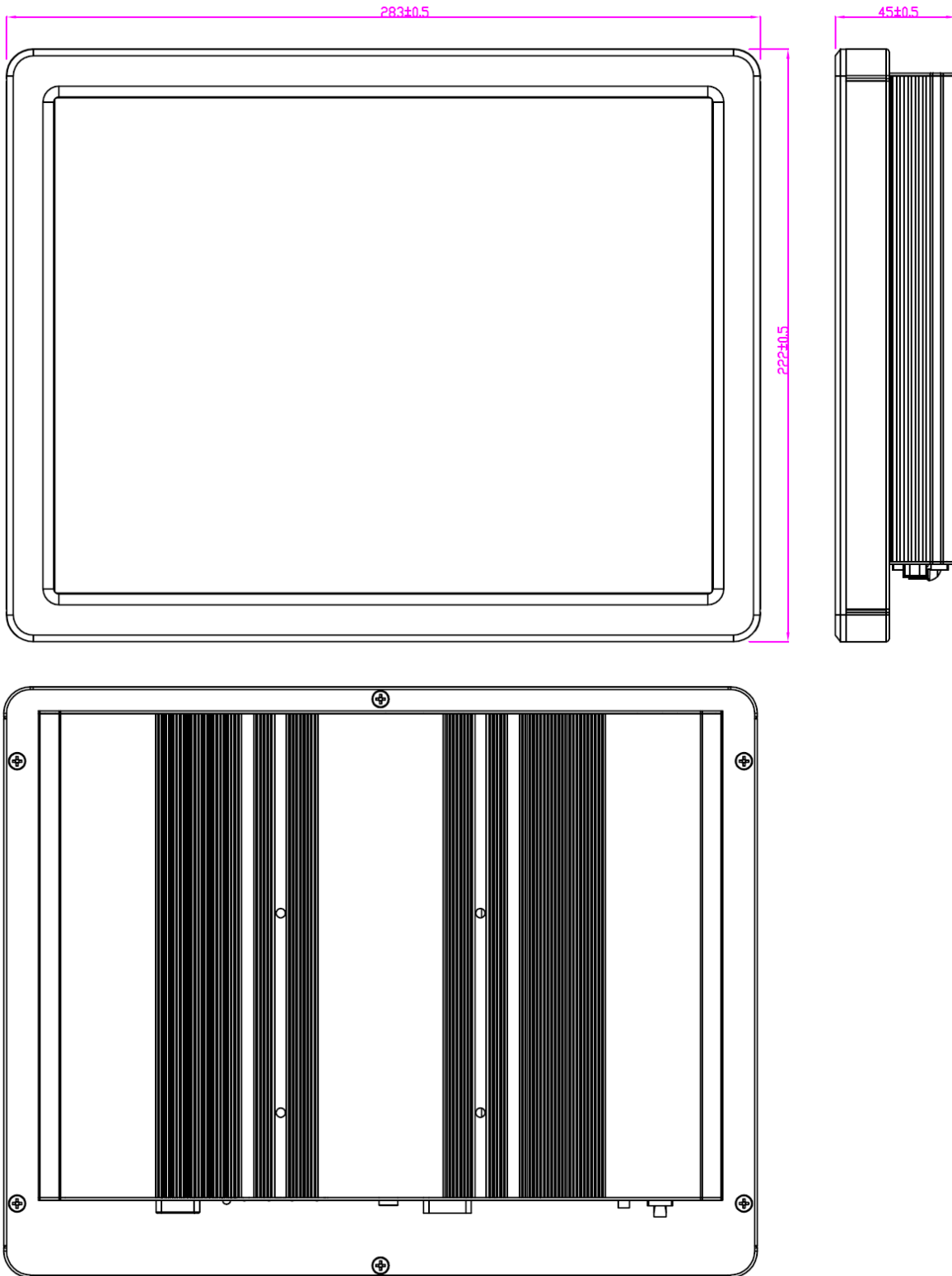


Connectors

Label	Function	Note
POWER	Power on button	
CF	CF Type I/II Socket with Ejector	Optional for 2 nd 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	RJ-45 Ethernet connector 2	
(KB/MS)	(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	DC Power-in connector	

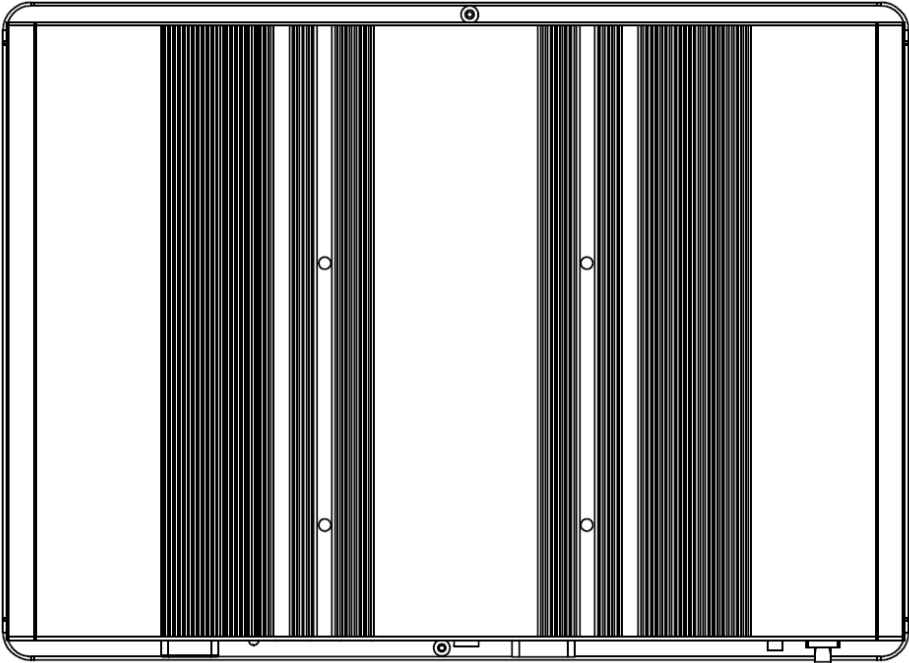
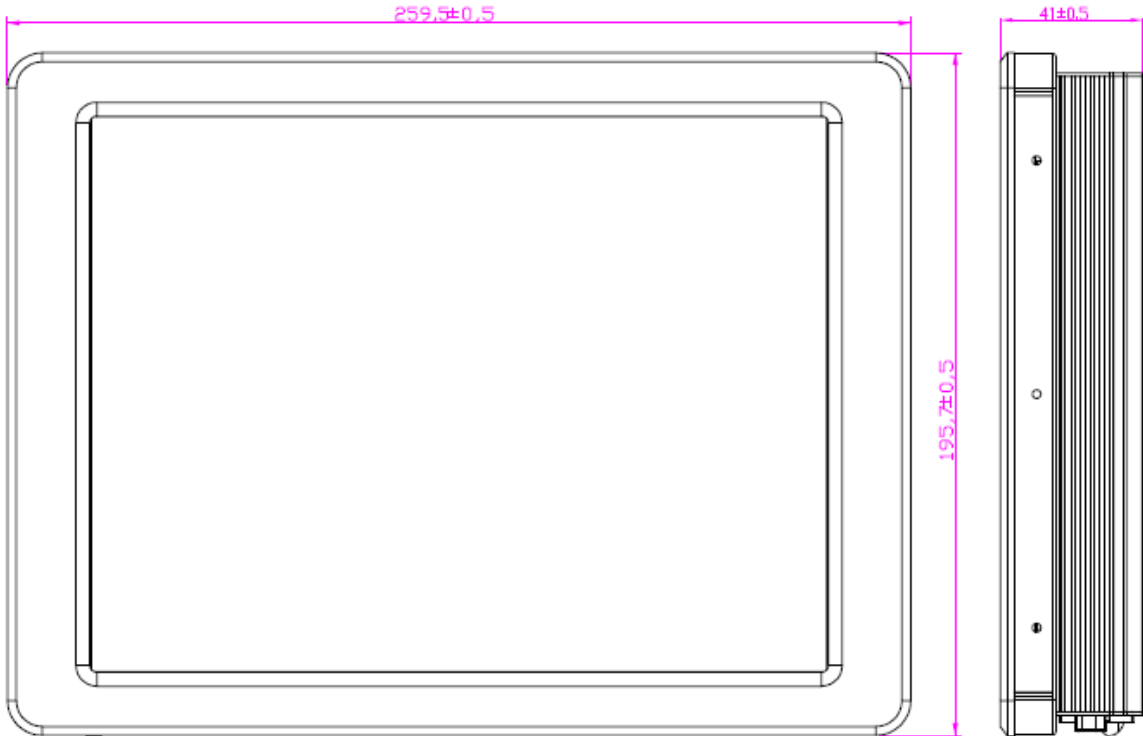
1.5 System Dimensions

1.5.1 LPC-1201/1203 Front side and rear



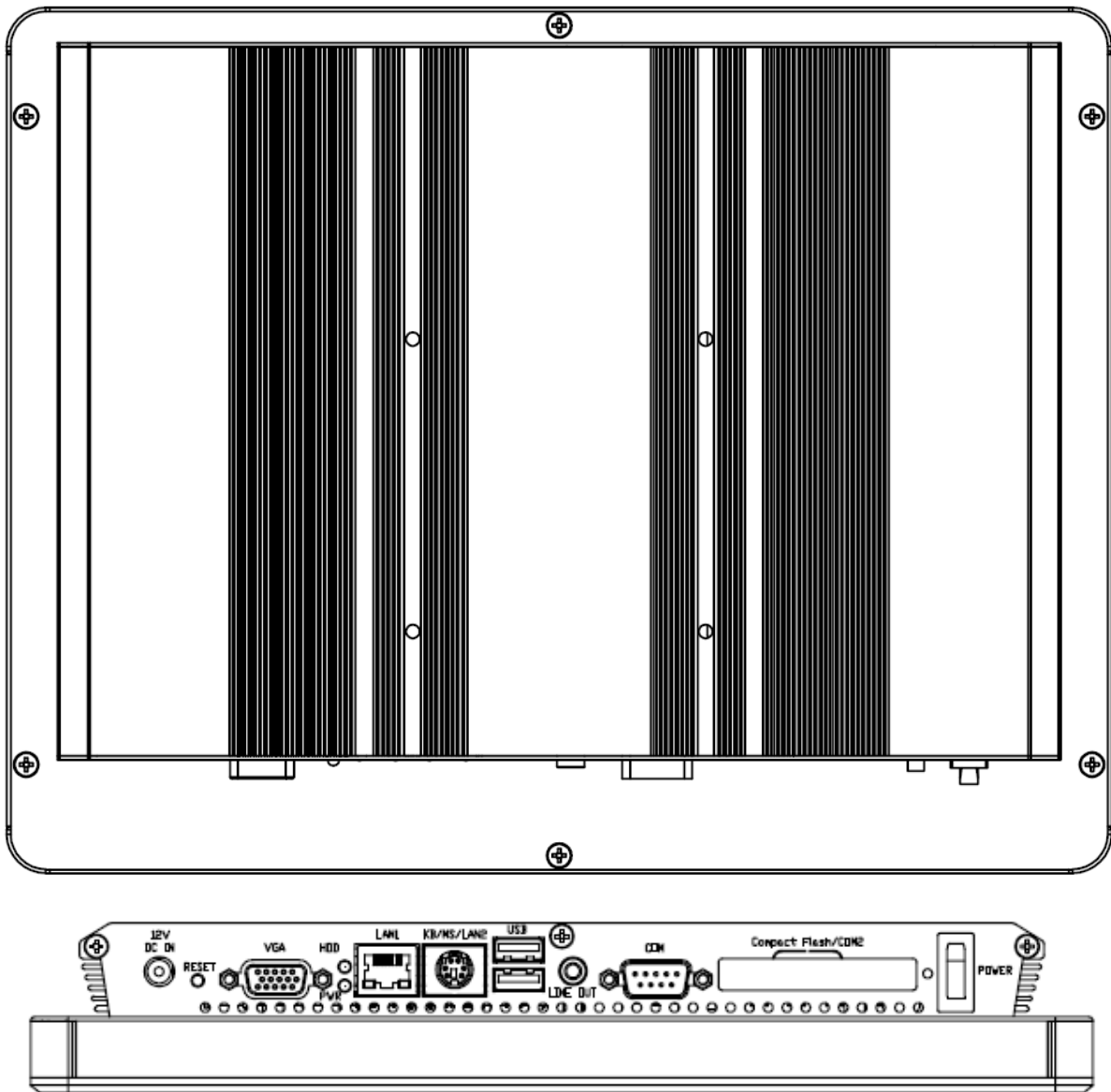
LPC 10"/12" Series

1.5.2 LPC-1001/1003 Front side and rear



(Unit: mm)

1.5.3 Bottom and Rear



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 LPC-1003/1203 RS232/422/485 setting by BIOS

The COM port setting of LPC-1003/1203, 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]**

Phoenix – AwardBIOS CMOS Setup Utility		
Super IO Device		
		Item Help
Onboard Serial Port 1	[3F8/IRQ4]	
COM1 232/422/485	[RS232]	
Onboard Serial Port 2	[2F8/IRQ3]	Menu Level ▶
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]	

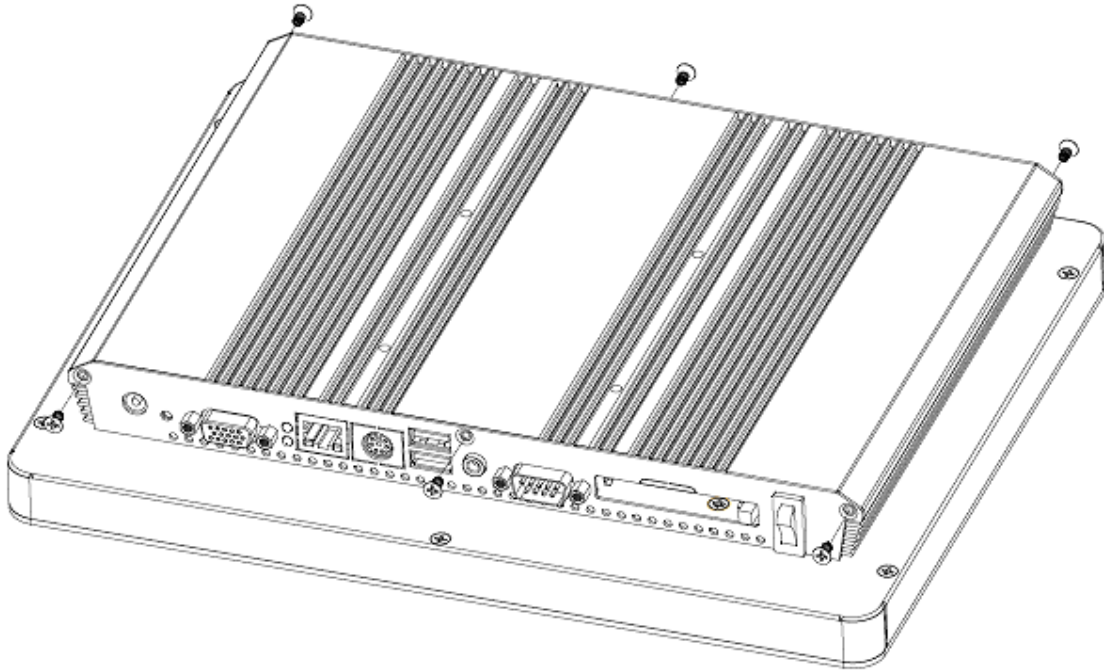
The panel backlight of LPC-1003/1203, which applying EBM-945GSE M/B, can be configured by BIOS as well. The path is shown as below.

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

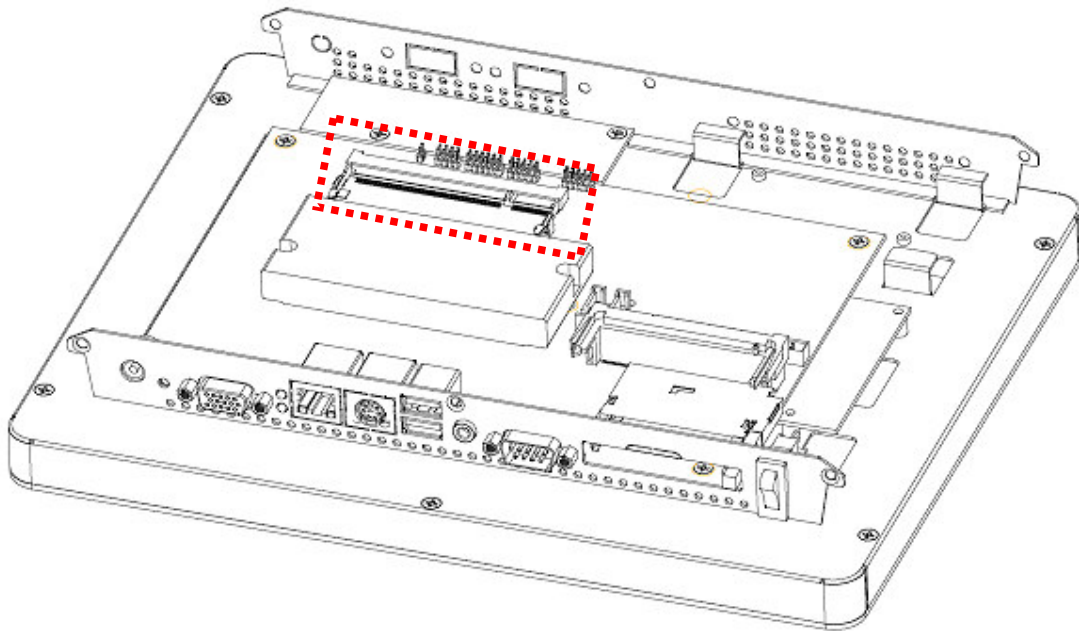
To know more about other settings, please refer to **EBM-CX700**, **EBM-945GSE** Quick Installation Guide or User's Manual.

2.2 Installing Hard Disk & Memory

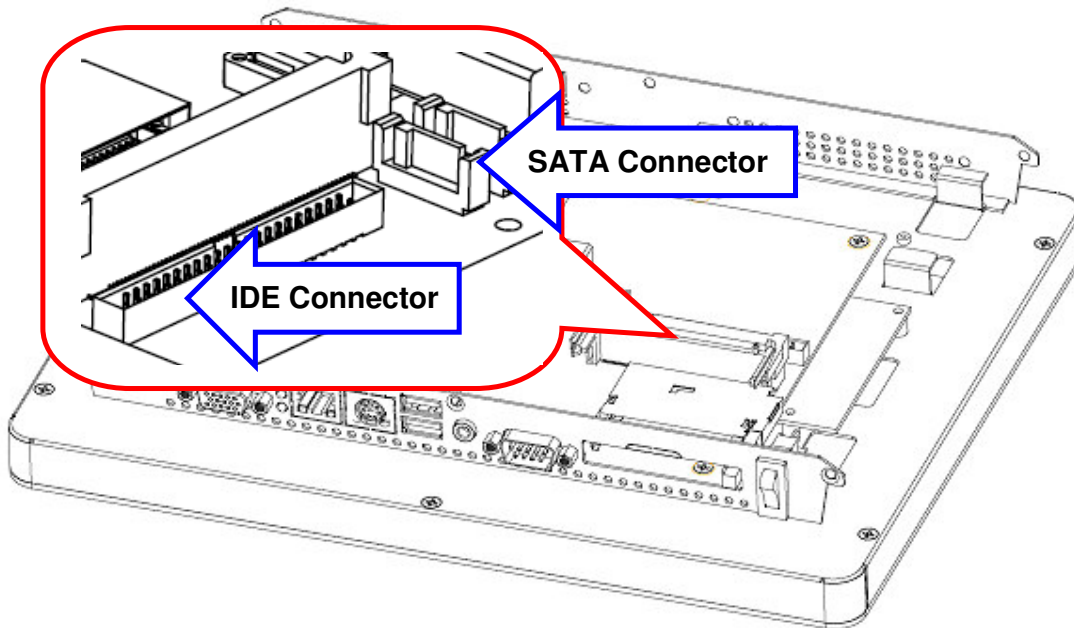
Step 1. Unfasten 6 screws from the case. Then take off the top chassis.



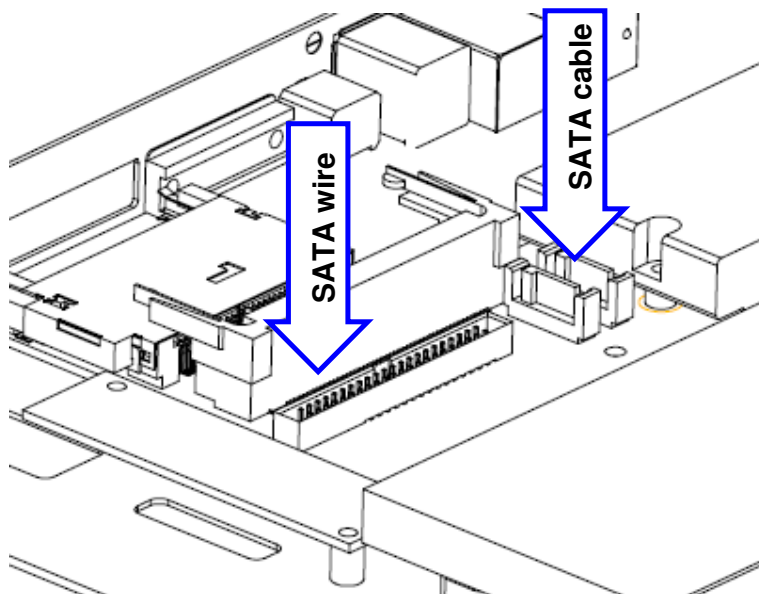
Step 2. Insert the SODIMM into the memory socket.



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

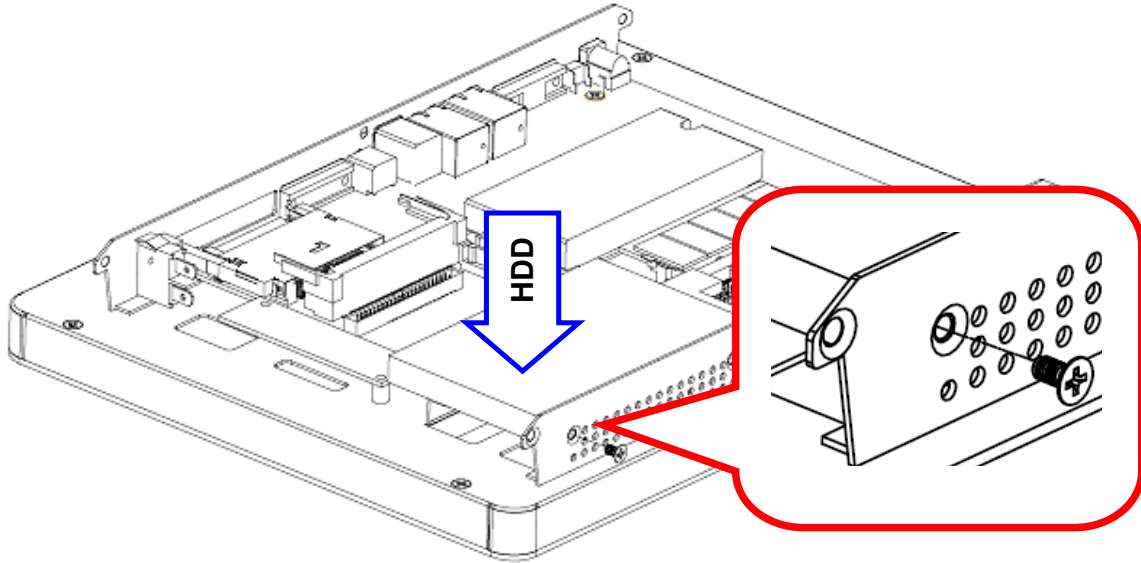


Step 3-2. SATA HDD Installation: By default, the SATA cables had been inserted to the according connectors. Just connect to SATA HDD with the two cables.



LPC 10"/12" Series

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.

