

SPC 15"/17"/22"W Series

15"/17"/22"W Stainless Steel Touch Panel PC

Quick Reference Guide

1st Ed – 11 April 2011

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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 SPC 15"/17"/22"W Series Panel PC
- 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 DC-in extended cable





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




1.3 System Specifications

Panel 		
Model	SPC-1503	SPC-1505
LCD size	15", 4:3	
Display type	XGA	
Resolution	1024 x 768	
Color	16.7M	
Pixel pitch	0.297mm(H) x 0.297mm(V)	
Luminance	300 cd/m ²	
Contrast ratio	700	
Viewing angle	70(U), 70(D), 75(L), 75(R)	
Response time	8 ms	
Backlight	CCFL	
Touch type	5-Wire resistive	
Touch interface	USB	
System 		
Board	EBM-945GSE	EBM-PNV
CPU	Onboard Intel Atom N270 1.6GHz (2.5W)	Onboard Intel® Atom™ D525 Dual-Core 1.8GHz CPU
BIOS	Award 4 Mbit Flash BIOS	AMI 8 Mbit Flash BIOS
System Chipset	Intel 945GSE + ICH7-M	Intel® ICH8-M Chipset
I/O Chipset	ITE 8712F	Winbond W83627DHG
System Memory	Onboard 1GB DDR2, one extra SODIMM supports up to 2GB 400/533 SDRAM	Onboard 1GB, One 200-pin SODIMM Support Up to 3GB SDRAM
SSD	One CF socket supports Type I / II Compact Flash Card.	One CF socket supports Type I / II Compact Flash Card.
HDD	Optional 2.5" SATA HDD or 44-pin enhanced IDE HDD	One 2.5" SATA HDD
WiFi	Optional USB WiFi 802.11b/g	Optional USB WiFi 802.11b/g/n
Watchdog Timer	Reset: 1 ~ 65535 sec./min. and 1 min./step	Reset: 1 ~ 255min. and 1sec. or 1min./step
Display	Intel 945GSE GMCH integrated GMA950 graphics	Intel Pineview integrated, Gen3.5 + GFX Core @ 400MHz (PNV-D)
Audio	Realtek ALC 655 supports 5.1-CH Audio	Realtek ALC 888 supports 5.1-CH Audio
Ethernet	Dual Realtek RTL8111C Gigabit LAN	Intel® 82574L Gigabit Ethernet



External I/O Ports 		
COM Port	1 x RS-232	1 x RS-232
Ethernet Port	2 x Giga LAN	1 x Giga LAN
USB Port	2 x USB 2.0	3 x USB 2.0
Power Supply Unit 		
Power Input	12V	
Power Output	5A (60W)	
Environment & Mechanical 		
Operating Temperature	0~40°C (32~104°F)	
Storage Temperature	-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)	370 x 295 x 60mm	
Weight	6.42 Kgs	
Mounting	VESA 75 x 75 & 100 x 100 mm	




SPC 15"/17"/22"W Series

Panel 		
Model	SPC-1703	SPC-1705
LCD size	17", 4:3	
Display type	SXGA	
Resolution	1280 x 1024	
Color	16.7M	
Pixel pitch	0.264mm(H) x 0.264mm(V)	
Luminance	380 cd/m ²	
Contrast ratio	1000	
Viewing angle	85(U), 85(D), 80(L), 80(R)	
Response time	5 ms	
Backlight	CCFL	
Touch type	5 Wires resistive	
Touch interface	USB	
System 		
Board	EBM-945GSE	EBM-PNV
CPU	Onboard Intel Atom N270 1.6GHz (2.5W)	Onboard Intel® Atom™ D525 Dual-Core 1.8GHz CPU
BIOS	Award 4 Mbit Flash BIOS	AMI 8 Mbit Flash BIOS
System Chipset	Intel 945GSE + ICH7-M	Intel® ICH8-M Chipset
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SSD	One CF socket supports Type I / II Compact Flash Card.	One CF socket supports Type I / II Compact Flash Card.
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External I/O Ports 		
COM Port	1 x RS-232	1 x RS-232
Ethernet Port	2 x Giga LAN	1 x Giga LAN
USB Port	2 x USB 2.0	3 x USB 2.0
Power Supply Unit 		
Power Input	12V	
Power Output	5A (60W)	
Environment & Mechanical 		
Operating Temperature	0~40°C (32~104°F)	
Storage Temperature	-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)	405 x 348 x 60mm	
Weight	7.5 Kgs	
Mounting	VESA 75 x 75 & 100 x 100 mm	

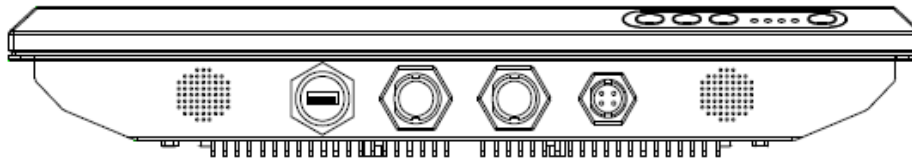
SPC 15"/17"/22"W Series

Panel 		
Model	SPC-22W3	SPC-22W5
LCD size	22"W, 16:10	
Display type	WSXGA	
Resolution	1680 x 1050	
Color	16.7M	
Pixel pitch	0.282mm(H) x 0.282mm(V)	
Luminance	300 cd/m ²	
Contrast ratio	1000	
Viewing angle	80(U), 80(D), 85(L), 85(R)	
Response time	5 ms	
Backlight	CCFL	
Touch type	5 Wires resistive	
Touch interface	USB	
System 		
Board	EBM-945GSE	EBM-PNV
CPU	Onboard Intel Atom N270 1.6GHz (2.5W)	Onboard Intel® Atom™ D525 Dual-Core 1.8GHz CPU
BIOS	Award 4 Mbit Flash BIOS	AMI 8 Mbit Flash BIOS
System Chipset	Intel 945GSE + ICH7-M	Intel® ICH8-M Chipset
I/O Chipset	ITE 8712F	Winbond W83627DHG
System Memory	Onboard 1GB DDR2, one extra SODIMM supports up to 2GB 400/533 SDRAM	Onboard 1GB, One 200-pin SODIMM Support Up to 3GB SDRAM
SSD	One CF socket supports Type I / II Compact Flash Card.	One CF socket supports Type I / II Compact Flash Card.
HDD	Optional 2.5" SATA HDD or 44-pin enhanced IDE HDD	One 2.5" SATA HDD
WiFi	Optional USB WiFi 802.11b/g	Optional USB WiFi 802.11b/g/n
Watchdog Timer	Reset: 1 ~ 65535 sec./min. and 1 min./step	Reset: 1 ~ 255min. and 1sec. or 1min./step
Display	Intel 945GSE GMCH integrated GMA950 graphics	Intel Pineview integrated, Gen3.5 + GFX Core @ 400MHz (PNV-D)
Audio	Realtek ALC 655 supports 5.1-CH Audio	Realtek ALC 888 supports 5.1-CH Audio
Ethernet	Dual Realtek RTL8111C Gigabit LAN	Intel® 82574L Gigabit Ethernet

External I/O Ports 		
COM Port	1 x RS-232	1 x RS-232
Ethernet Port	2 x Giga LAN	1 x Giga LAN
USB Port	2 x USB 2.0	3 x USB 2.0
Power Supply Unit 		
Power Input	12V	
Power Output	7A (84W)	
Environment & Mechanical 		
Operating Temperature	0~40°C (32~104°F)	
Storage Temperature	-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)	546 x 371 x 65mm	
Weight	9 Kgs	
Mounting	VESA 75 x 75 & 100 x 100 mm	

1.4 System Overview

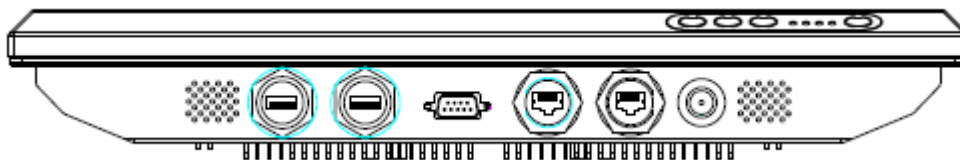
1.4.1 15" Rear View



Connectors

Label	Function	Note
Membrane	Power & 3 programmable buttons	
USB	Waterproof USB 2.0 connector	
LAN/USB	LAN for 1503 Series & USB for 1505 Series	
18pin	Waterproof 18pin connector (Use attached cable to convert 1xUSB/1LAN/1COM)	
DC-IN	Waterproof DC Power-in connector	

1.4.2 17"/22"W Rear View

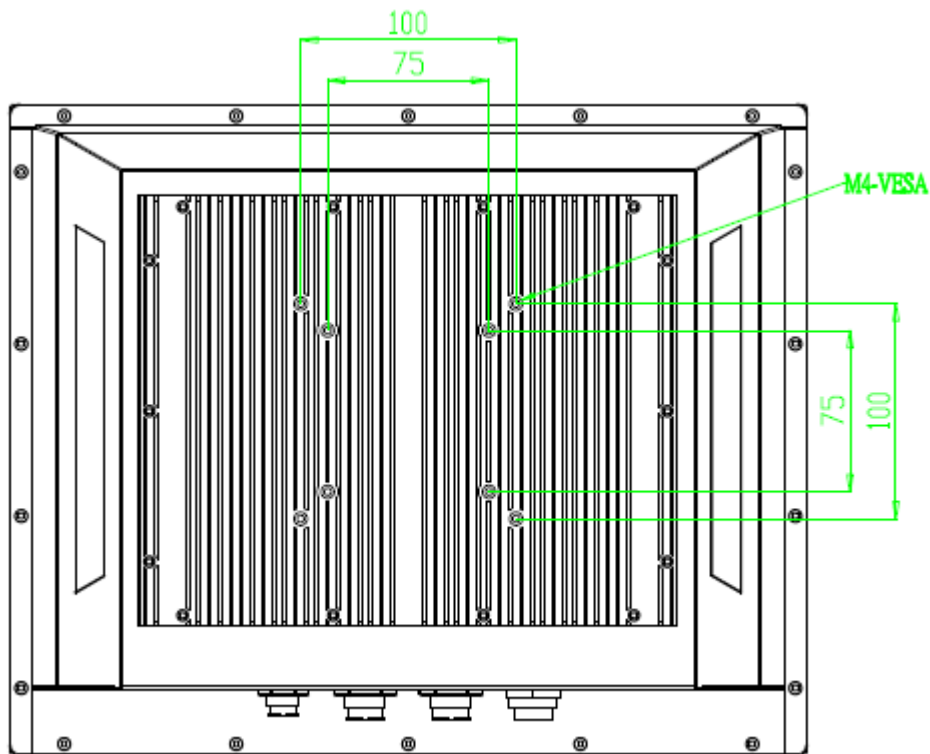
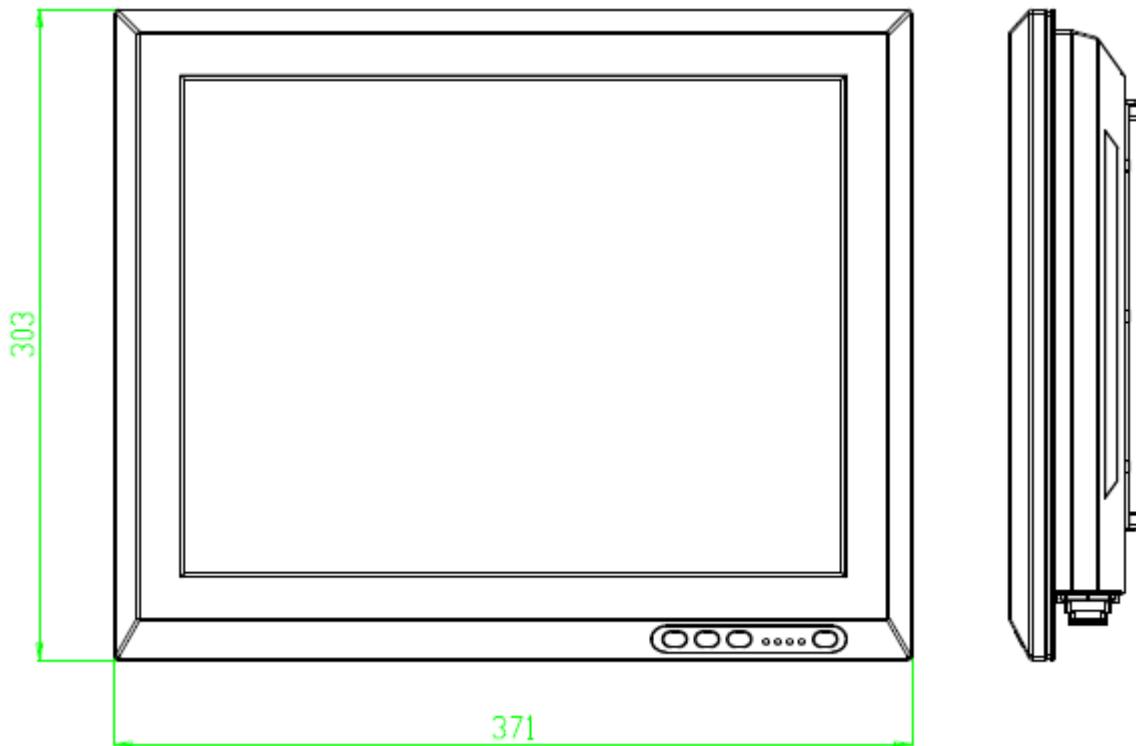


Connectors

Label	Function	Note
Membrane	Power & 3 programmable buttons	
USB	Waterproof USB 2.0 connector x 2	
LAN	Waterproof RJ-45 connector x 2	
COM	Waterproof DB-9 connector	
DC-IN	Waterproof DC Power-in connector	

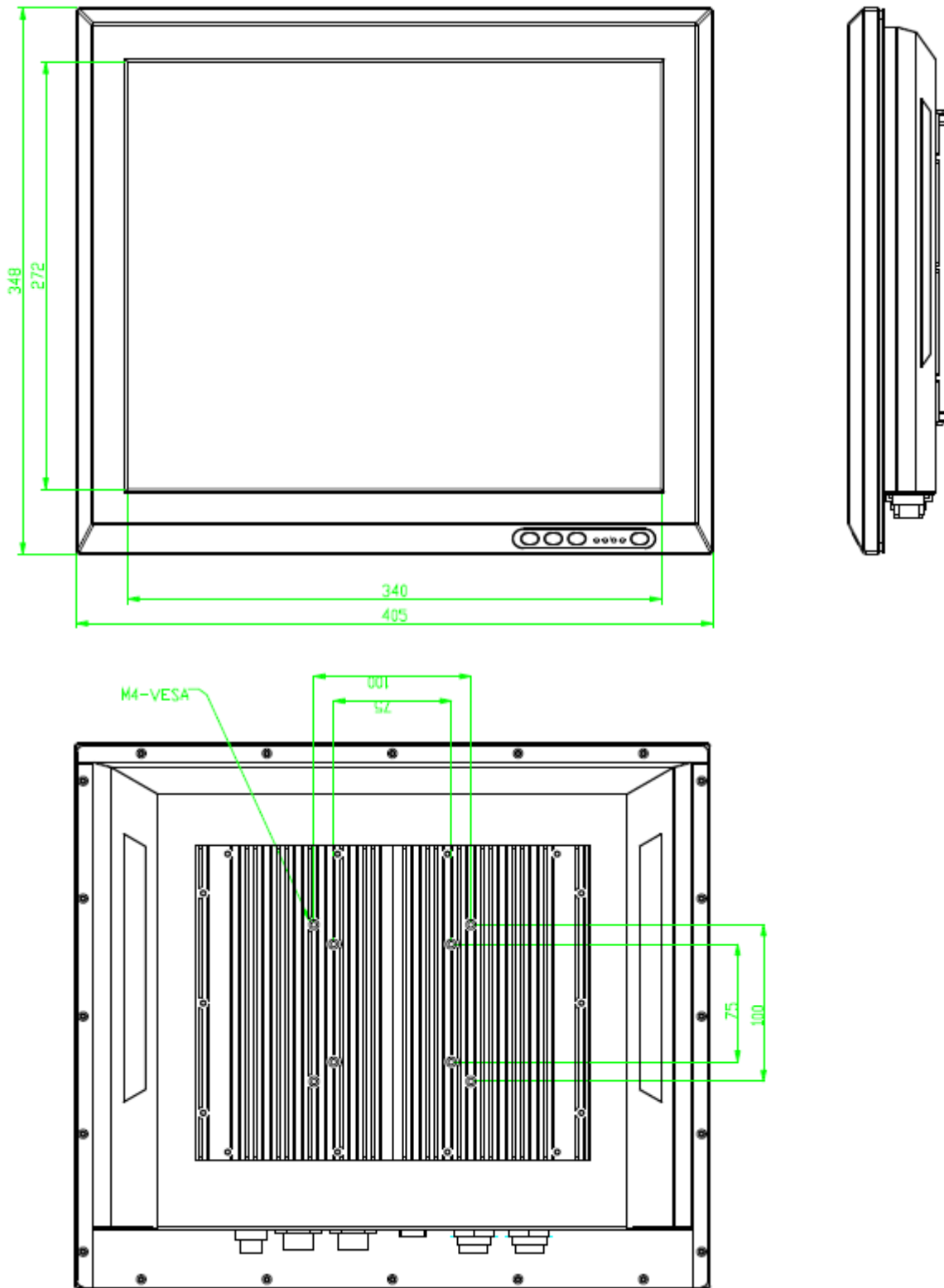
1.5 System Dimensions

1.5.1 SPC-15 Front and rear side



SPC 15"/17"/22"W Series

1.5.2 SPC-17 Front and rear side



(Unit: mm)

1.5.3 SPC-22W Front side and rear

