

MPC-SPC22W

21.5" LED/LCD Touch Screen Panel PC Fanless Intel® CoreTM E3845 QuadCore CPU Rugged Embedded Computer for All-Weather Conditions

Quick Reference Guide

1ST Ed -4 December 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 UNDESIRED 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 INSTATLLED 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

Marine PC Customer Services

Each and every Marine PC product is built to the most exacting specifications to ensure reliable performance in the harsh and demanding conditions typical of industrial environments. Whereever your new Marine PC device is destined to be installed, you can be assured that your product will provide the reliability and ease of operation for which the name Marine PC has come to be known.

Your satisfaction is our primary concern. Here is a guide to Marine PC'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; plea se visit our Web site at: http://www.marinepc.com

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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 MPC-SPC22W Panel PC
- 1 x DVD-ROM contains the following:
- User's Manual (this manual in PDF file)
- Ethernet driver and utilities
- VGA drivers and utilities
- Audio drivers and utilities
- Wi-Fi drivers and utilities
- Touch controller drivers and utilities
- 1 x Power Adapter
- 1 x DC-in extended cable

Note:

User must use waterproof type connector and cable when connect to I/O ports including DC jack, RJ45, COM and USB port.

1.3 System Specifications

Panel		
Model	SPC-22W9	
LCD Size	22″W, 16:10	
Resolution	1680 x 1050, WSXGA	
Pixel Pitch	0.282mm (H) x 0.282mm (V)	
Luminance	250cd/m ²	
Contrast Ratio	1000	
Viewing Angle	80 (U), 80 (D), 85 (L), 85 (R)	
Response Time	5ms	
Backlight	LED	
Touch Screen	5-wire Resistive	
Light Transmission	80%	
Touch Interface	USB Touch Control Board EETI	
System		
Board	EBM-BYT	
	Onboard Intel® Atom Quad-Core	
CPU	E3845 1.91GHz with Integrated	
	Chipset	
I/O Chip	E/C IT8528E	
	One 204-pin DDR3L SODIMM	
System Memory	Socket Supports Up to 8GB	
	DDR3L 1066/1333 SDRAM	
SSD	One CompactFlash Type I/ II Socket (Support optional InnoDisk	
	CF-SATA)	
Hard Driver Bay	One 2.5" SATA HDD	
Watchdog Timer	H/W Reset, 1sec. ~	
	65535sec./1sec.step	
H/W Status Monitor	Monitoring system temperature, voltage, and cooling fan status. Auto	
	throttling control when CPU overheats	
Expansion	1 x mPCIe with SIM Slot, 1 x	
-	mPCIe Supports mSATA	
Rear I/O		
Serial Port	1 x RS-232	
Ethernet	1 x RJ-45	
USB	3 x USB 2.0	

Speaker	2 x 5W			
Display				
Chinaat	Intel Bay Trail SoC Integrated			
Chipset	Graphics			
	HDMI 1.4a resolutions up to			
Resolution	1920x1200@ 60 24bpp			
Audio				
AC97 Codec	Realtek ALC892 supports 5.1-CH Audio			
Ethernet				
	Intel® I210IT Gigabit LAN,			
LAN Chip	Optional Dual LAN			
Ethernet Interface	10/100/1000 Base-Tx Fast Ethernet compatible			
Environment & Mechanical				
Color	Front & Rear Panel Silver			
Mounting	Wall/Stand/VESA 75 mm x 75 mm			
System Power	+12 ~ 26V			
Requirement				
Power Adapter	Input: 100 ~ 240 Vac/ 50 ~ 60 Hz			
	Output: 24V/2.5A 60W			
Power Type	AT/ATX			
Operating Temperature	0 ~ 40°C			
Storage Temperature	-10 ~ 60°C			
Relative Humidity	5% ~ 90% Relative Humidity, Non-condensing			
Dimensions (W x D x H)	546mm x 378mm x 69mm			
Weight	9 Kgs			



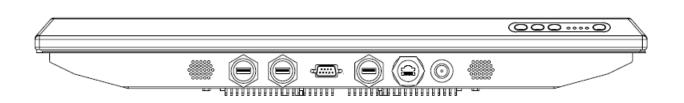
Note:

1. For thermal concern, turbo boost feature of SPC true flat rear case SKUs with INTEL J1900 processor has been turned off in BIOS default setting.

2. Specifications are subject to change without notice.

1.4 System Overview

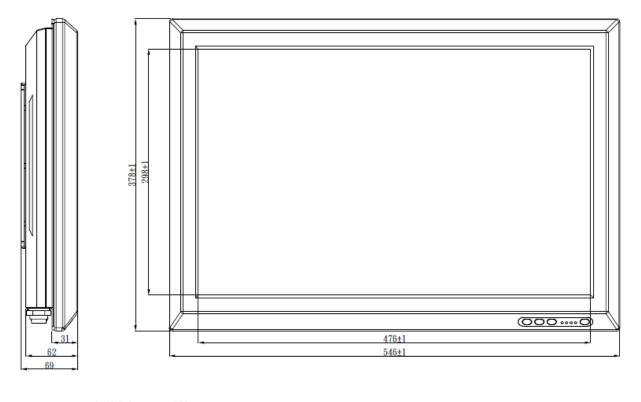
1.4.1 Rear View

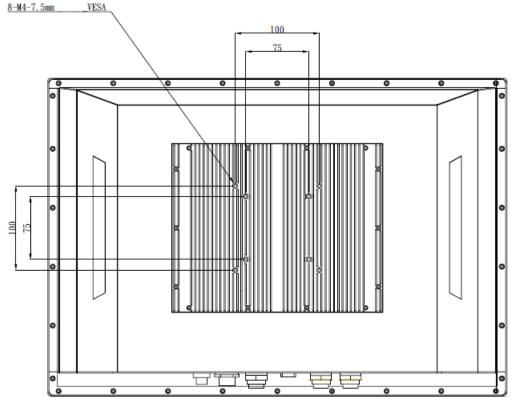


Connectors					
Label	Function	Note			
Membrane	Power & 3 programmable buttons				
USB	Waterproof USB 2.0 connector x 3				
LAN	Waterproof RJ-45 connector				
СОМ	Waterproof DB-9 connector				
DC-IN	Waterproof DC Power-in connector				

1.5 System Dimensions

1.5.1 Front, rear and side view





(Unit: mm)

