SPC-22W7/22W9

Full IP-65 Stainless Steel Chassis Fanless Touch Panel PC

Quick Reference Guide

5th Ed - 12 March 2019

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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

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/

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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-22W7/22W9 Panel PC
 - 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.



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

1.3 System Specifications

Panel						
Model	SPC-22W7	SPC-22W9				
LCD Size	22"W, 16:10					
Resolution	1680 x 1050, WSXGA					
Pixel Pitch	0.282mm (H) x 0.282mm (V)					
Luminance	250cd/m²					
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 Cor	ntrol Board EETI				
System						
Board	EBM-CDV	EBM-BYT				
CPU	Onboard Intel® Atom™ D2550 1.86GHz CPU	Onboard Intel® Atom Quad-Core E3845 1.91GHz with Integrated Chipset				
System Chipset	Intel® NM10 Chipset					
I/O Chip	E/C IT8518E	E/C IT8528E				
System Memory	One SODIMM socket supports up to 4GB DDR3 800/1066 SDRAM	One 204-pin DDR3L SODIMM 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	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step	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 Mini PCIe Slot, Optional Supports mSATA	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					

SPC-22W7/22W9

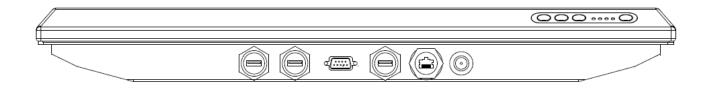
Speaker	2 x 2W	2 x 5W(Optional)				
Display						
Chipset	Intel® Cedarview Integrated Graphics	Intel Bay Trail SoC Integrated Graphics				
Resolution	CRT Mode: 1920 x 1200 @ 60Hz; LCD/Simultaneous Mode : 1400 x 900 @ 60Hz (CDV-D)	HDMI 1.4a resolutions up to 1920x1200@ 60 24bpp				
Audio						
AC97 Codec	Realtek ALC892 supports 5.1-CH Audio					
Ethernet						
LAN Chip	Intel® 82574L Gigabit LAN,	Intel® I210IT Gigabit LAN,				
LAN CITIP	Optional Dual LAN	Optional Dual LAN				
Ethernet Interface	10/100/1000 Base-Tx Fast Ethernet compatible					
Environment & Mecha	nical					
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					
Power Adapter	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					



- 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**

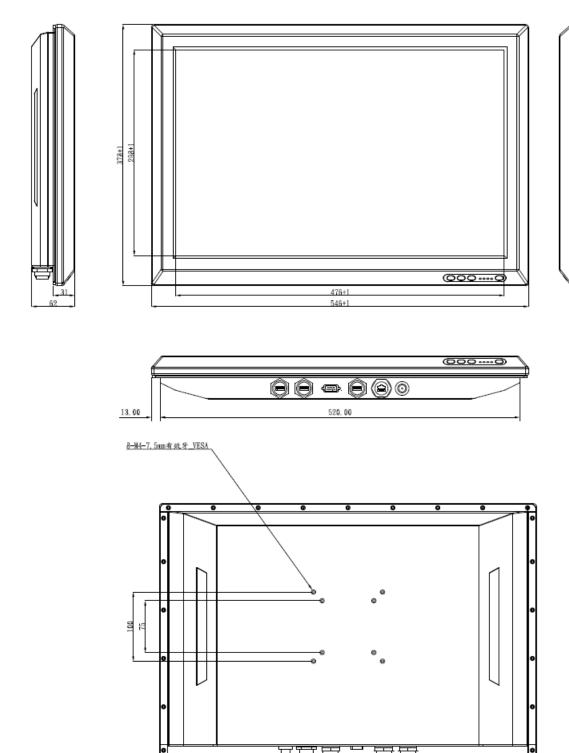


Connectors					
Label	Function	Note			
Membrane	Power & 3 programmable buttons				
USB	Waterproof USB 2.0 connector x 3				
LAN	Waterproof RJ-45 connector				
СОМ	Waterproof DB-9 connector				
DC-IN	Waterproof DC Power-in connector				

1.5 System Dimensions

1.5.1 Front, rear and side view





(Unit: mm)