

SPC-1207/12A4 Series

Full IP-65 Stainless Steel Chassis
Fanless Touch Panel PC

Quick Reference Guide

2nd Ed – 24 September 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 UNDESIRE 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 INSTALLED 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 12" 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
- 1 x USB+LAN+COM External 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

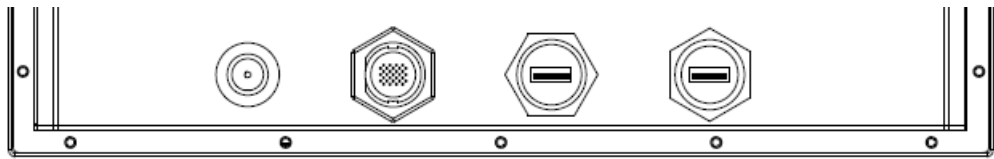
Panel 		
Model	SPC-1207	SPC-12A4
LCD Size	12.1", 4:3	
Resolution	1024 x 768, XGA	
Pixel Pitch	0.240mm (H) x 0.240mm (V)	
Luminance	600cd/m²	
Contrast Ratio	700	
Viewing Angle	70 (U), 70 (D), 80 (L), 80 (R)	
Response Time	16ms	
Backlight	LED	
Touch Screen	5-wire Resistive	
Light Transmission	80%	
Touch Interface	USB Touch Control Board EETI	
System 		
Board	EBM-CDV	EBM-A50M
CPU	Onboard Intel® Atom™ D2550 1.86GHz CPU	Onboard AMD eOntario T40E 1.0GHz CPU
System Chipset	Intel® NM10 Chipset	AMD A50M Chipset
I/O Chipset	E/C IT8518E	Nuvoton W83627DHG-P
System Memory	One 204-pin SODIMM Supports Up to 4GB DDR3 1066MHz SDRAM	Onboard 2GB DDR3 and One 204-pin SODIMM Supports Up to 4GB DDR3 1066MHz SDRAM
Storage	One Type I/II Compact Flash Socket One 2.5" HDD Bay	One Type I/II Compact Flash Socket One 2.5" HDD Bay
Watchdog Timer	Reset: 1sec. ~ 255min. and 1sec. or 1min./step	Reset: 1sec. ~ 255min. and 1sec. or 1min./step
H/W Status Monitor	Monitoring System Temperature, Voltage, and Cooling Fan Status. with Auto Throttling Control	Monitoring System Temperature, Voltage, and Cooling Fan Status. with Auto Throttling Control
Expansion	1 x Mini PCIe Slot, Optional Supports mSATA	2 x Mini PCIe Slots
External I/O Ports 		
Serial Port	1 x RS-232 (Via Combo Port, Water Proof, IP-67 Rating)	1 x RS-232 (Via Combo Port, Water Proof, IP-67 Rating)
Ethernet	1 x RJ-45 (Via Combo Port, Water Proof, IP-67 Rating) (Intel® 82574L Gigabit Ethernet, Optional Dual 82574L Gigabit Ethernet)	1 x RJ-45 (Via Combo Port, Water Proof, IP-67 Rating) (Realtek RTL8111E Ethernet, Supports Wake on LAN)
USB	3 x USB 2.0 (1 x USB via Combo Port, Water Proof, IP-67 Rating)	3 x USB 2.0 (1 x USB via Combo Port, Water Proof, IP-67 Rating)
Power Switch	1 x Membrane Power Button	1 x Membrane Power Button

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Power Input	1 x DC-in (Water Proof, IP-67 Rating)	1 x DC-in (Water Proof, IP-67 Rating)
Speaker	2 x 2W Speaker	2 x 2W Speaker
Environment & Mechanical 		
Color	Front & Rear Panel Silver	
Mounting	VESA/ Wall/ Stand 75mm x 75mm & 100mm x 100mm	
System Power Requirement	+12 ~ 26V DC Power Input	
Power Adapter	Input: 100 ~ 250VAC/ 47 ~ 63Hz Output: 60W Adapter (24V @ 2.5A Adapter)	
Operating Temperature	0 ~ 40°C (32 ~ 104°F)	
Storage Temperature	-20 ~ 60°C (-4 ~ 140°F)	
Relative Humidity	5% ~ 90% Relative Humidity, Non-condensing	
Dimensions (W x D x H)	311mm x 272mm x 58mm	
Weight	4.23Kgs	

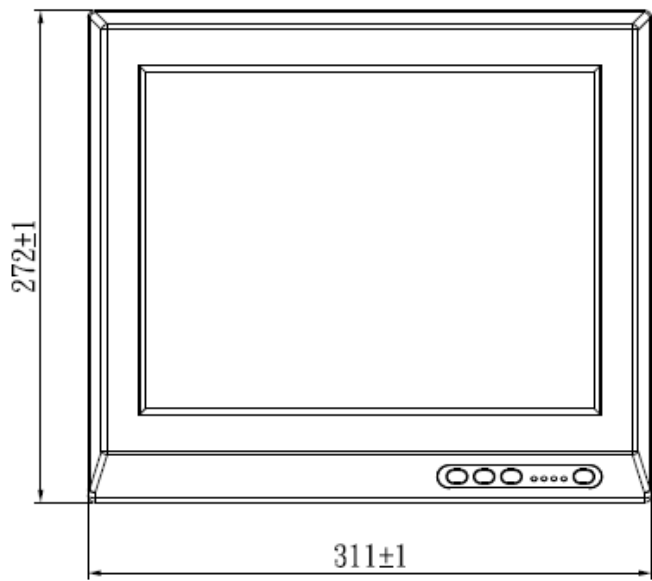
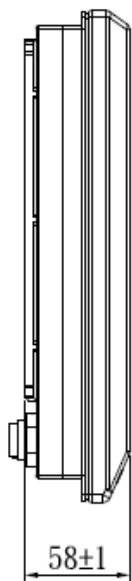
1.4 System Overview

1.4.1 Rear View



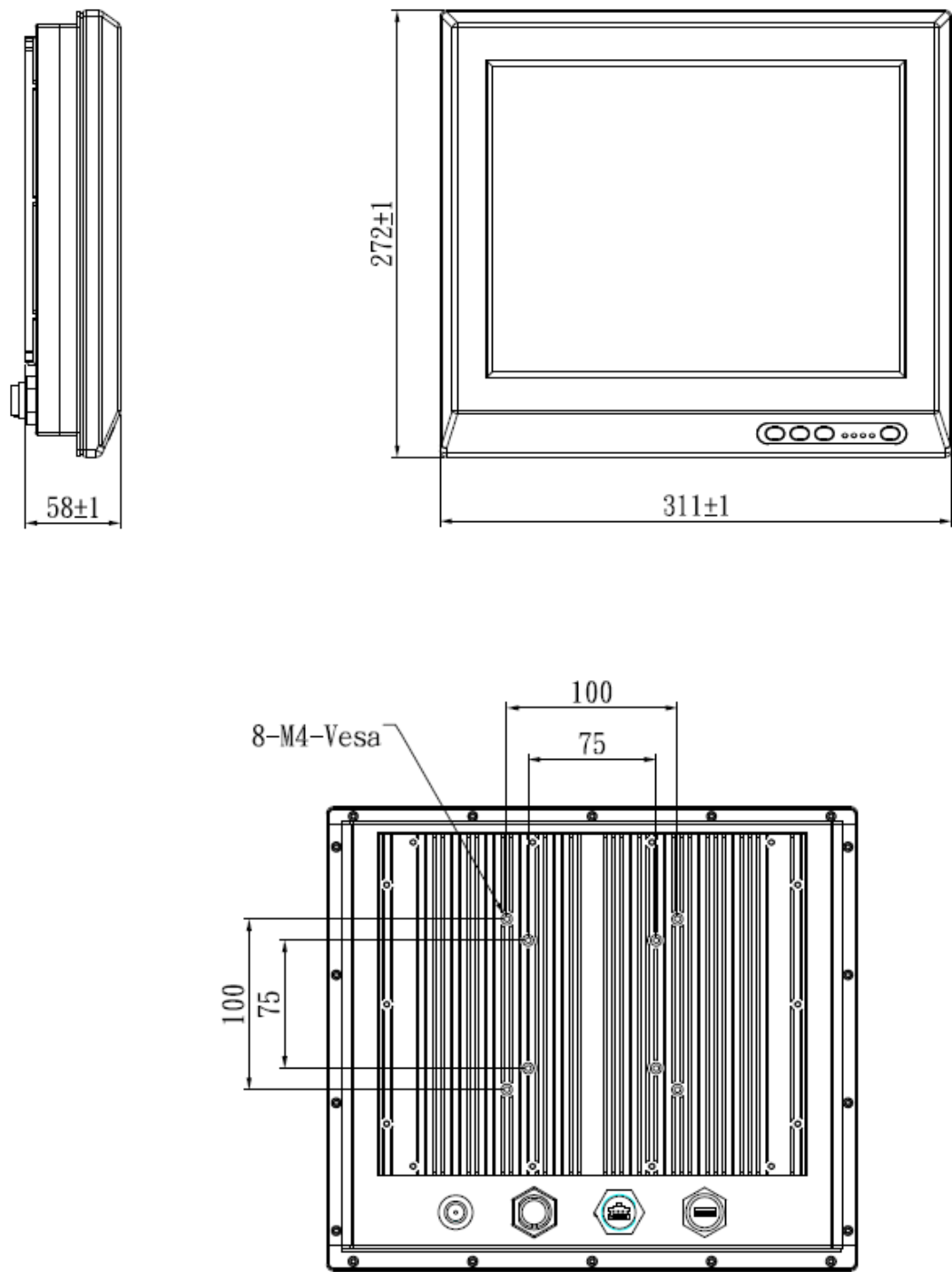
Connectors

Label	Function	Note
POWER	Power jack	
Combo Port	Waterproof USB2.0 + LAN + COM connector	
USB	Waterproof USB 2.0 connector x 2	



1.5 System Dimensions

1.5.1 Front and rear side



(Unit: mm)

