

SPC-1509 (A2 Version)

15" Intel® Atom™ SoC Processor J1900 Fanless Stainless Steel Chassis Touch Panel PC with Full IP-65

Quick Reference Guide

1st Ed – 29 Oct 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-1509 Panel PC
- 1 x Driver/Utility DVD-ROM
- 1 x Power Adapter
- 1 x DC-in extended cable
- 1 x Power Cord

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

Component	
Mother Board	EBM-BYT
CPU	Onboard Intel® Atom Quad-Core J1900 2GHz with Integrated Chipset
Memory	1 x 204-Pin DDR3L 1333MHz SO-DIMM Up to 8GB
Power Supply	+12V ~ +26V
Adapter	AC/DC Adapter 100~240V 50~60Hz, 24V/2.5A
System Fan	Fan-less
Speaker	N/A
Wireless LAN	Optional USB/MPCle WiFi module
Operating System	Win7/Win8/Linux
Storage	
Hard Disk Drive	1 x 2.5" Drive Bay
Other Storage Device	1 x CompactFlash Type I/II Socket
Panel	
LCD Panel	15" 4:3 XGA 1024 x 768 LED panel
LCD Control Board	LCD Built-in Inverter
B/L Inverter/Converter	LCD Built-in LED Backlight
Touch Screen	5 wires resistive
Touch Controller	Onboard USB touch (EETI)
External I/O	
Serial Port	N/A (available by Optional)
USB Port	3 x USB 2.0 Port
LAN Port	2 x RJ-45
Wireless LAN Antenna	2 x antenna (Optional)
Indicator Light	LED for Power, HDD
Expansion Slots	1x Mini PCIe support mSATA 1x Mini PCIe support SIM card
Mechanical	
Power Type	+12V~ +26V
Power Connector Type	Lockable DC Jack
Dimension	371 x 308 x 63.6 mm
Weight	6.42 Kgs
Color	Front & Rear Panel Silver by brushed Hair silk finish
Fan-less	Full System Fan-less
Reliability	

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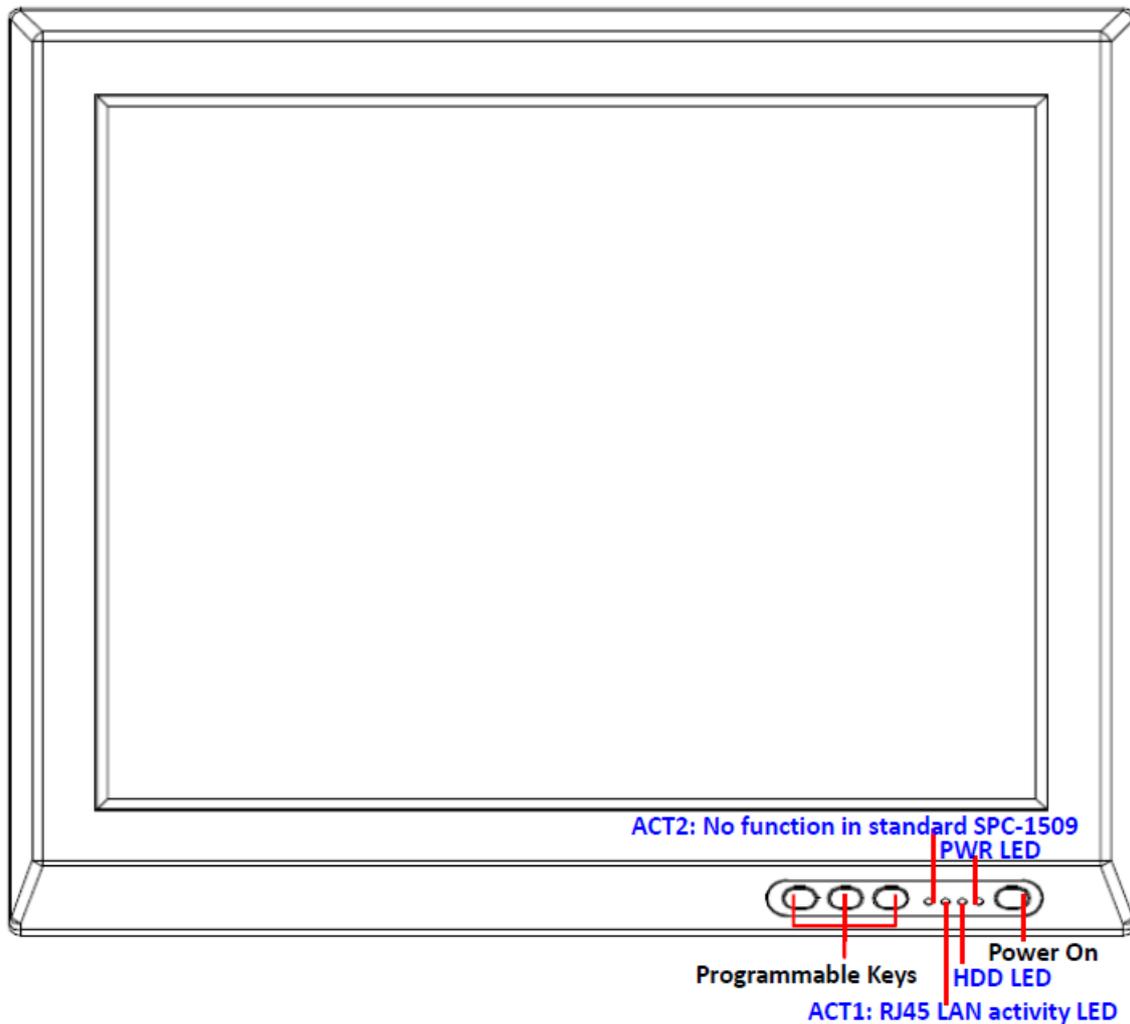
EMI Test	CE, FCC Class A
Dust and Rain Test	Full IP-65
Vibration Test	With SSD/mSATA : 1.5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 30min/axis
Mechanical Shock Test	With CF/SSD : 10Grms, IEC 60068-2-27, Half Sine, 11ms
Drop Test	EC-60068-2-32 (96.5cm)
Operating Temperature	0 ~ 40°C (32 ~ 104°F)
Operating Humidity	5% ~ 90% Relative Humidity, Non-condensing
Storage Temperature	-10 ~ 60°C (14 ~ 140°F)



Note: Specifications are subject to change without notice.

1.4 System Overview

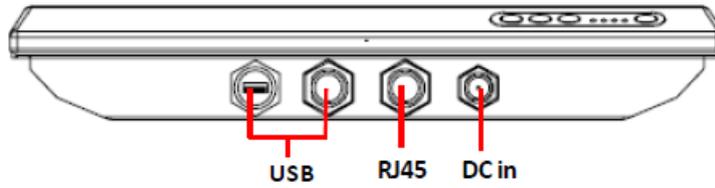
1.4.1 Front View



Note: Programmable keys are available to be programmed by the user; they are unable to work unless programmed.

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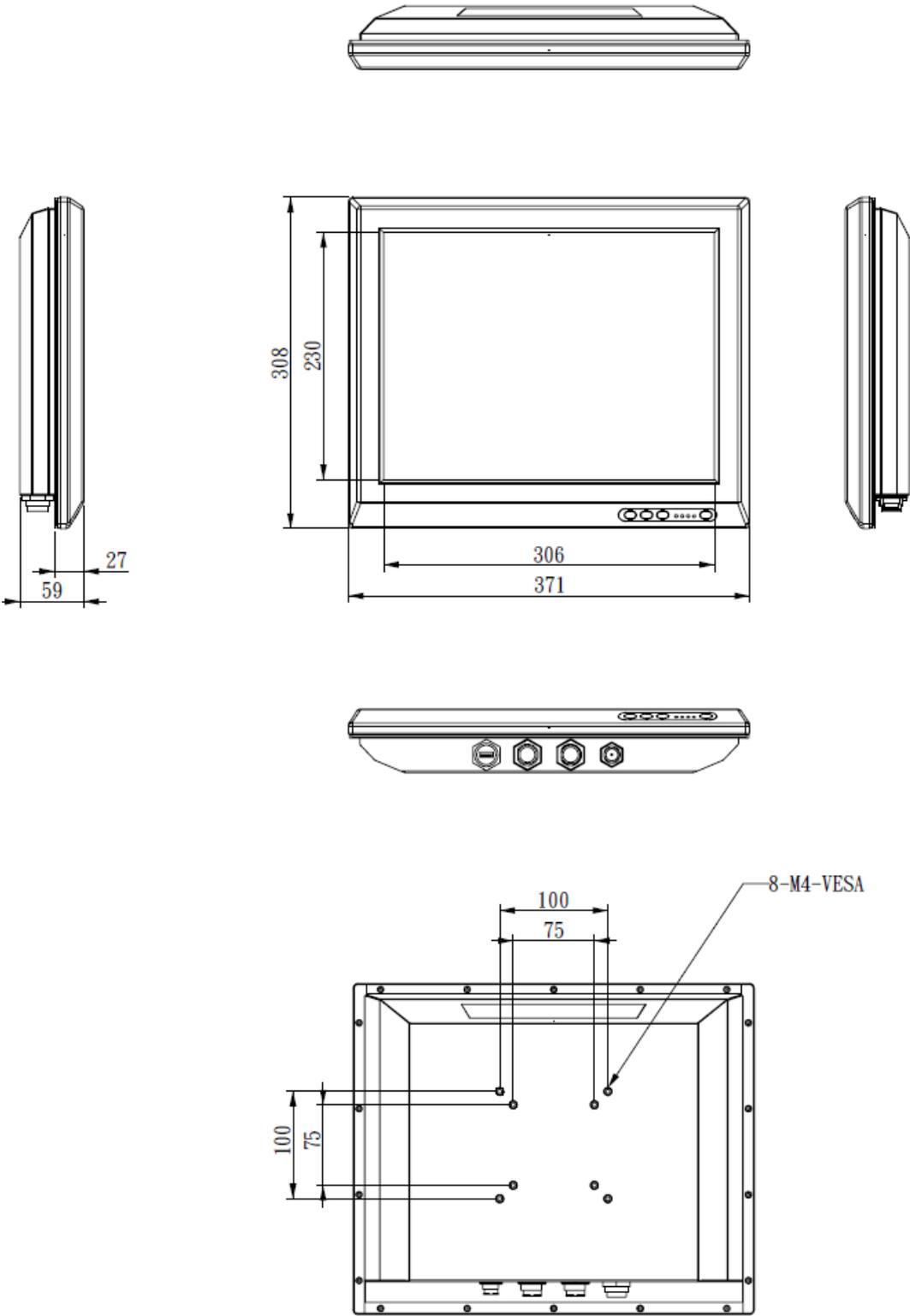
1.4.2 Rear View



Connectors

Label	Function	Note
USB	2 x USB2.0 connectors	
RJ45	RJ45 connector	
DC in	DC Power-in connector	

1.5 System Dimensions



(Unit: mm)

