SPC-1533

15" Fanless Full IP-65 Stainless Steel Chassis Touch Panel PC with Intel APL solution

Quick Reference Guide

3rd Ed – 20 August 2020

Part No. E2017S530A2R

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/

Content

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-1533 Panel PC

● 1 x Power Adapter

● 1 x DC-in extended cable

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

1.3 System Specifications

Component	
Mother Board	EBM-APL A11 (Normal & Wide Temperature)
CPU	Intel® Celeron® Processor N3350
CPU Cooler (Type)	Fanless Heatsink
Memory	One 204-pin DDR3L SODIMM Socket, Supports Up to 8GB DDR3L 1866MTs SDRAM (Non-ECC) *Minimum 4GB , does not support 2GB
Power Supply	External power adapter
Adapter	AC/DC adapter 24V/2.5A 90 Plug Type
System Fan	Fanless
Speaker	2 x 5W (Optional)
Wireless LAN	Optional MPCIe Wi-Fi + BT module ACC-MPCIE-WIFI-10R mPCIe WiFi 1T1R 802.11b/g/n/ac/BT4.0 ZQ802XRACB, QCOM
Operating System	Windows 10
Storage	
Hard Disk Drive	1 x 2.5" Drive Bay
Solid State Drive	1 x 2.5" Drive Bay
Panel	
LCD Panel	15" XGA TFT LED Panel CMI G150XNE-L03
LCD Control Board	Built-in
B/L Inverter/Converter	Built-in
PCap Touch Screen	Default 15" PCap Touch
Resistive Touch Controller	Optional Touch panel 5 wire Analog
Touch Controller	EETI controller
External I/O	
Serial Port	1 x COM DB9
USB Port	2 x USB 2.0
LAN Port	1 x RJ-45
Wireless LAN Antenna	2 x antenna (Optional)
Indicator Light	LED for Power (Color green)
Expansion Slots	1 x MiniPCIe Slot
Others	Waterproof push power button x 1

SPC-1533

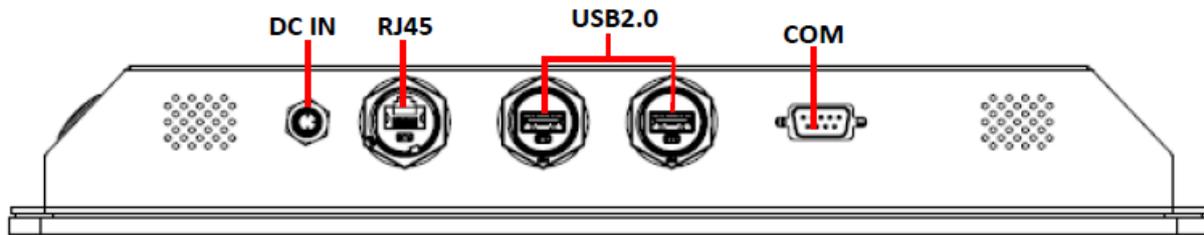|	
NFC/RFID	ACC-NFC-USB-02R or ACC-NFC-USB-03R JunWei NFC Module CT-NFCe-10
Mechanical	
Power Type	AT/ATX
Power Connector Type	Plug Type
Dimension	383 x 307 x 52.5 mm
Weight	6.42 kg
Color	Silver stainless
Fan-less	Full System Fan-less
Reliability	
EMI Test	CE, FCC Class B
Dust and Rain Test	Full IP-65
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	Normal Temperature: 0°C ~ 40°C (32°F ~ 104°F) Wide Temperature: -10°C ~ 50°C (-4°F ~ 122°F)
Operating Humidity	20% ~ 80% Relative Humidity, Non-condensing
Storage Temperature	Normal Temperature: -10°C ~ 50°C (14°F ~ 122°F) Wide Temperature: -30 to 60°C (-22°F ~ 140°F)

Note:

Specifications are subject to change without notice.
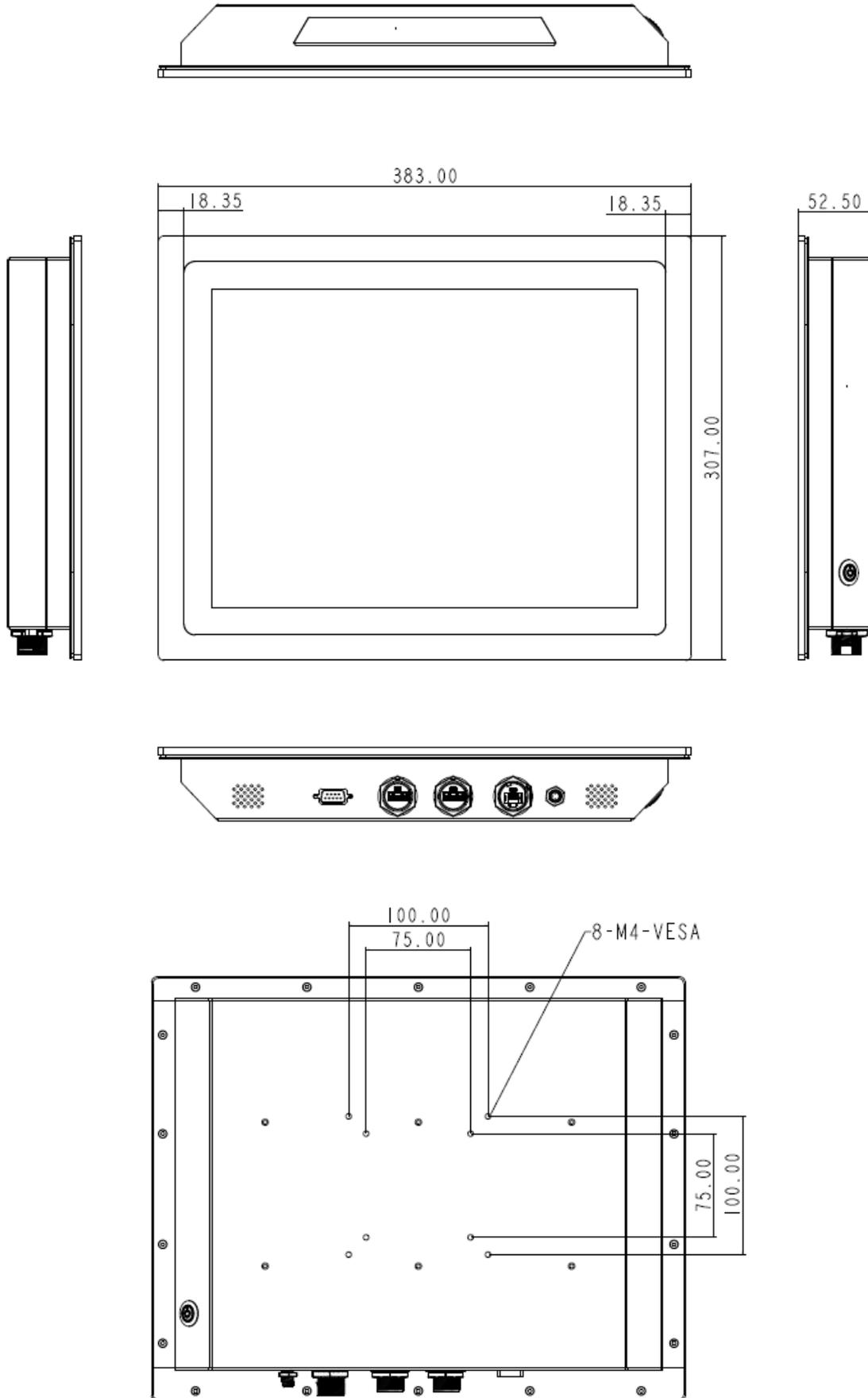
1.4 System Overview

1.4.1   Bottom View

Connectors

Label	Function	Note
COM	Serial port connector	DB-9 male connector
USB2.0	2 x USB2.0 connector	
RJ45	RJ-45 Ethernet connector	
DC IN	DC Power-in connector	

1.5 System Dimensions

(Unit: mm)

2. Hardware Configuration

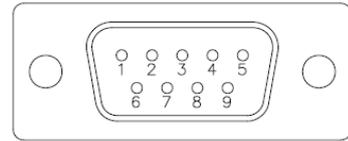For advanced information, please refer to:
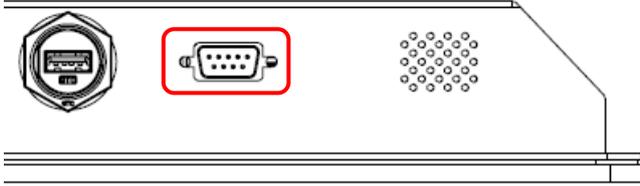
1- EBM-APL User's Manual

Note: If you need more information, please visit our website:

http://www.avalue.com.tw

2.1 SPC-1533 connector mapping

2.1.1   Serial port connector (COM)

Signal	PIN	PIN	Signal
DCD	1	6	DSR
RXD	2	7	RTS
TXD	3	8	CTS
DTR	4	9	RI
GND	5		