SID-10W9

Intel Atom Z3735F 10.1" Semi Industrial Ultra Slim Panel PC

Quick Reference Guide

3rd Ed –21 February 2023

Part No. E2017S090A2R

FCC Statement

Federal Communication Commission Interference Statement

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- **Reorient or relocate the receiving antenna.**
- **Increase the separation between the equipment and receiver.**
- **Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.**
- **Consult the dealer or an experienced radio/TV technician for help.**

Notice:

(1) A Unshielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord by used.

(2) Use only shielded cables to connect I/O devices to this equipment.

(3) Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This Wireless LAN radio device has been evaluated under FCC Bulletin OET 65 and found compliant to the requirements as set forth in CFR 47 Sections 2.1091, 2.1093, and 15.247 (b) (4) addressing RF Exposure from radio frequency devices. The radiated output power of this Wireless LAN device is far below the FCC radio frequency exposure limits. Nevertheless, this device shall be used in such a manner that the potential for human contact during normal operation is minimized. When nearby persons has to be kept to ensure RF exposure compliance, in order to comply with RF exposure limits established in the ANSI C95.1 standards, the distance between the antennas and the user should not be less than 20 cm.

WARNING

"CAUTION – Use suitable mounting apparatus to avoid risk of injury."

"CAUTION - Use a power cord that matches the voltage of the power outlet, which has been approved and complies with the safety standard of your particular country."

"WARNING – To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth."

Notice

This guide is designed for experienced users to setup the system within the shortest time. For detailed information, please always refer to the electronic user's manual.

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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

A Message to the Customer

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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.

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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:
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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.
Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries According to the Instructions.

Français:

Attention!

Débranchez le câble d'alimentation de votre châssis chaque fois que vous travaillez avec le matériel. Ne faites pas de connexion lorsque le système est allumé. Les composants électroniques sensibles peuvent être endommagés par les surtensions soudaines. Seule les personnels expérimentés de l'électronique peuvent ouvrir le châssis du PC.

Précaution!

Il faut toujours mettre à la masse pour éliminer l'électricité statique avant de toucher la carte CPU. Les appareils électroniques modernes sont très sensibles aux électricité statique. Pour des raisons de sécurité, utilisez un bracelet électrostatique. Placez tous les composants électroniques sur une surface antistatique ou dans un sac antistatique quand ils ne sont pas dans le châssis.
Risque d'explosion si la batterie est remplacée par un type incorrect. Jetez les piles usagées selon les instructions

1.2 Packing List

- 1 x SID-10W9 Panel PC
- 1 x AC/DC Power adapter 19V/3.42A
- 1 x Power cord

1.3 System Specifications

Display Screen	
LCD Size	10.1” TFT-LCD, 16:10
Display Type	WXGA
Resolution	1280 x 800
Pixel Pitch	0.1695 x 0.1695 mm
Viewing Angle	85(U), 85(D), 85(L), 85(R
Brightness	350 cd/m²
Backlight	LED
Touch Type	Projective Capacitive (10f)
System	
Mainboard	BCX12
Processor	Intel Atom Z3735F
Memory	2GB DDR3L on board
Storage	32GB eMMC on board
IO chip	ENE IO3737LU
Ethernet chip	Microchip LAN9512
Audio chip	Realtek ALC5645-CGT
IO	
USB	2 x USB 2.0
LAN	1 x RJ45 for 10/100 Fast Ethernet
Audio	1 x Line out
Video	1 x HDMI
WLAN	
Standard	IEEE 802.11b/g/n, Wi-Fi compliant
Chip	Realtek RTL8723BS
WiFi PID/VID	B723 / 024C
Antenna Type	PIFA
Frequency Range	WLAN: 2.4 GHz Band 2.412-2.472 GHz
Number of Channels	802.11b: USA, Canada and Taiwan : 1 ~ 11 Most European Countries : 1 ~ 13 Japan : 1 ~ 13 802.11g: USA and Canada : 1 ~ 11 Most European Countries : 1 ~ 13 802.11n: USA and Canada : 1 ~ 11 Most European Countries : 1 ~ 13
Modulation	WLAN: DSSS, OFDM, BPSK(9/6Mbps), QPSK(18/12Mbps), DBPSK(1Mbps), DQPSK(2Mbps), CCK(11/5.5Mbps), 16-QAM(36/24Mbps), 64-QAM (72.2/54/48Mbps)
Power Requirement	

Power Input	DC 12V~24V Wide Voltage input
Power Adapter	Input: 100~240 Vac/50~60 Hz; Output: 65W Adapter (19V @ 3.42A Adapter)
Operational Specification	
Cooling	FAN less design
Operating Temp.	0°C ~ 40°C (32°F ~ 104°F)
Storage Temp.	-10°C ~ 60°C (14°F ~ 140°F)
Operating Humidity	0% ~ 90% Relative Humidity, Non-Condensing
Mechanical Specifications	
Dimensions	255.2 x 169.4 x 33.3 mm (Maximum)
Construction	Metal
Color	Black
Weight	1.16kg
Mounting	Wall / Stand / VESA 75 x75 mm
Reliability	
EMI Test	CE/ FCC class B
Dust and Rain Test	Front Panel IP65
Vibration Test	IEC 60068-2-64, Random, 5~500Hz, 1HR/axis
Shock Test	50Grms, IEC 60068-2-27, Half-Sine,

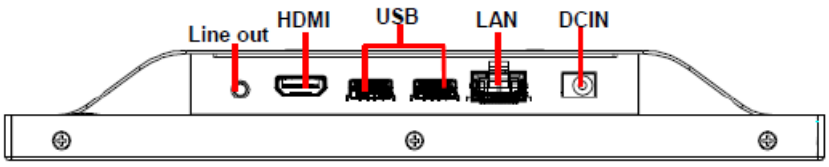
Note:

1. Specifications are subject to change without notice.
2. Limitation: CPU Intel Z3735F only has S0iX or S5 without S3 & S4.
   S0iX needs hardware support that means all of device must have S0iX support or will not wake up.
   Please strongly advice customers to not get into sleep mode, just backlight off.

1.4 System Overview

1.4.1 Front View

1.4.2 Bottom View

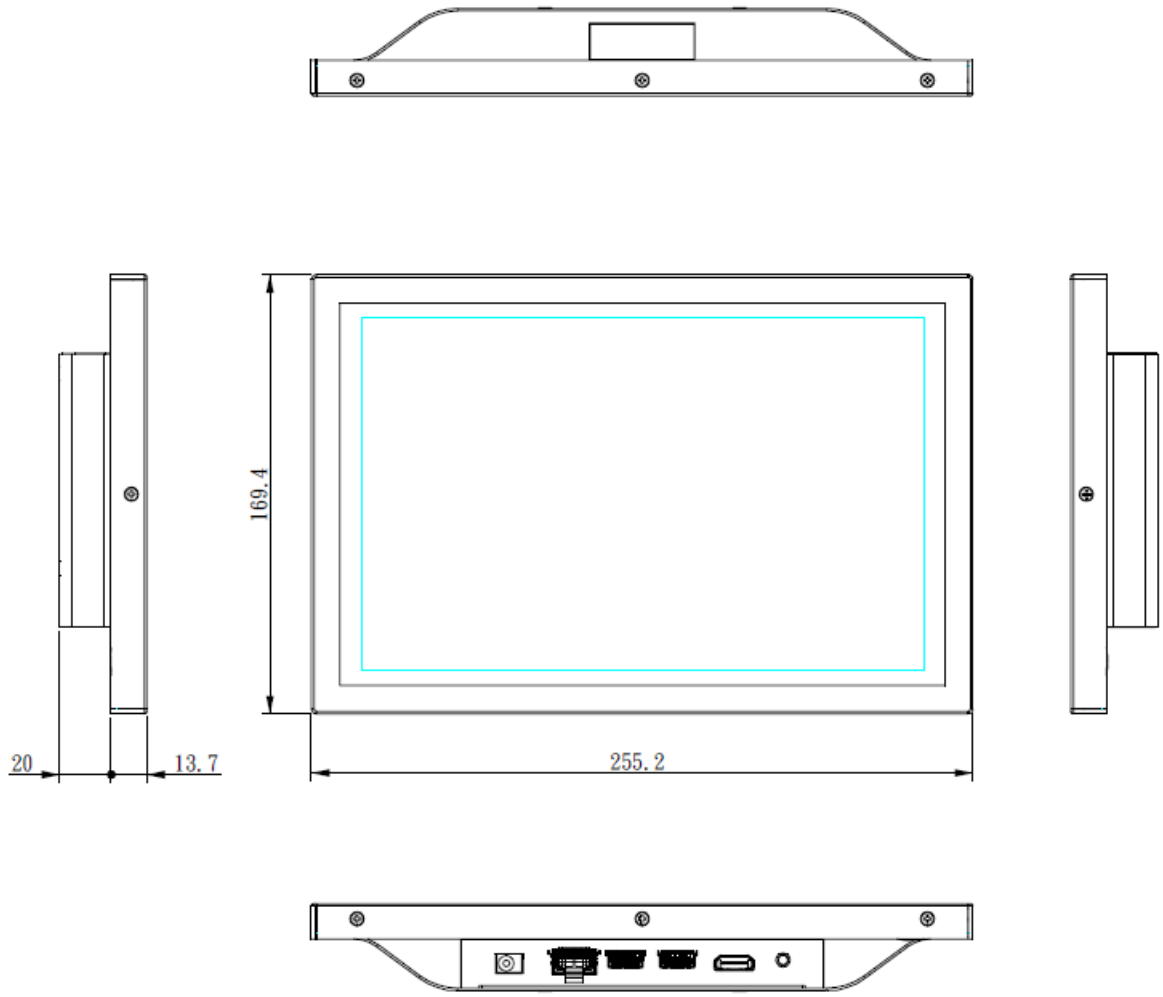


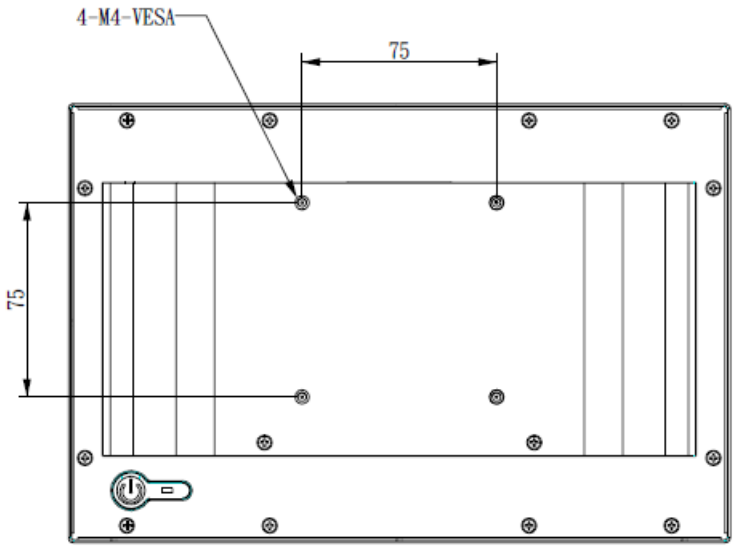
Connectors

Label	Function	Note
Line out	Audio line-out connector	Head phone jack
HDMI	HDMI connector	HDMI type A
USB2.0	2 x USB 2.0 connector	USB type A
DCIN	DC power-in connector	DC jack
LAN	10/100 Fast Ethernet	RJ-45

1.5 System Dimensions

1.5.1 Front and Rear side





(Unit: mm)