APC-2334

23.8" 7th Gen Intel® Core™ Kaby Lake i5-7300U Processor Multi-Touch Fanless Panel PC

Quick Reference Guide

2nd Ed – 10 November 2022

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Part No. E2017A340A1R

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 APC-2334 Panel PC
- 1 x 19V/3.78A 72W power adapter
- 1 x power cord

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

1.3 System Specifications

Component	
Mother Board	HID-2334 M/B
CPU	7th Generation Intel® Core Kaby Lake i5-7300U Processor
CPU Cooler (Type)	Heatsink
Memory	2 x 260pin SODIMM socket up to 32GB Per Slot DDR4 2400 SDRAM
Power Supply	DC in
Adapter	AC adapter 19V/3.78A 72W Screw Type EDAC EA10683V(T06)
Speaker	2W x 2
Camera	2.0M CMOS
Wireless LAN	mPCIe WiFi 1T1R 802.11b/g/n/ac/ BT4.0 (ACC-MPCIE-WIFI-10R) Optional
Bluetooth	BT4.0 Optional
Operating System	Win10 64 bit/Linux (Kernel after 4.7)
Expansion Card	Mini PCIe slot x 1
Other Component	JunWei NFC Module CT-NFCe-10 w/Antenna (ACC-NFC-USB-03R) Optional
Storage	
Solid State Drive	2.5” SSD Optional
Panel	
LCD Panel	BOE MV238FHM-N10
LCD Control Board	D2625014G1PA, 3ASCREEN
Touch Screen	Sense Touch ST-238C04E
Touch Controller	EETI 84H5680 ctrl bd.
External I/O	
USB Port	4 x USB3.0 (2 x Double deck)
Video Port	1 x DP 1 x HDMI
Audio Port	Line-Out & Mic-in
LAN Port	2 x RJ45
Indicator Light	HDD LED, Power LED
Expansion Slots	1 x M.2 2230 1 x mPCIe with SATA or PCIE x1 mSATA
Mechanical	
Power Type	DC in +19V ~ 24V
Power Connector Type	Lockable DC jack
Dimension	539.6 x 342.6 x 45.5mm
Weight	6.9 kg (without battery and adapter)

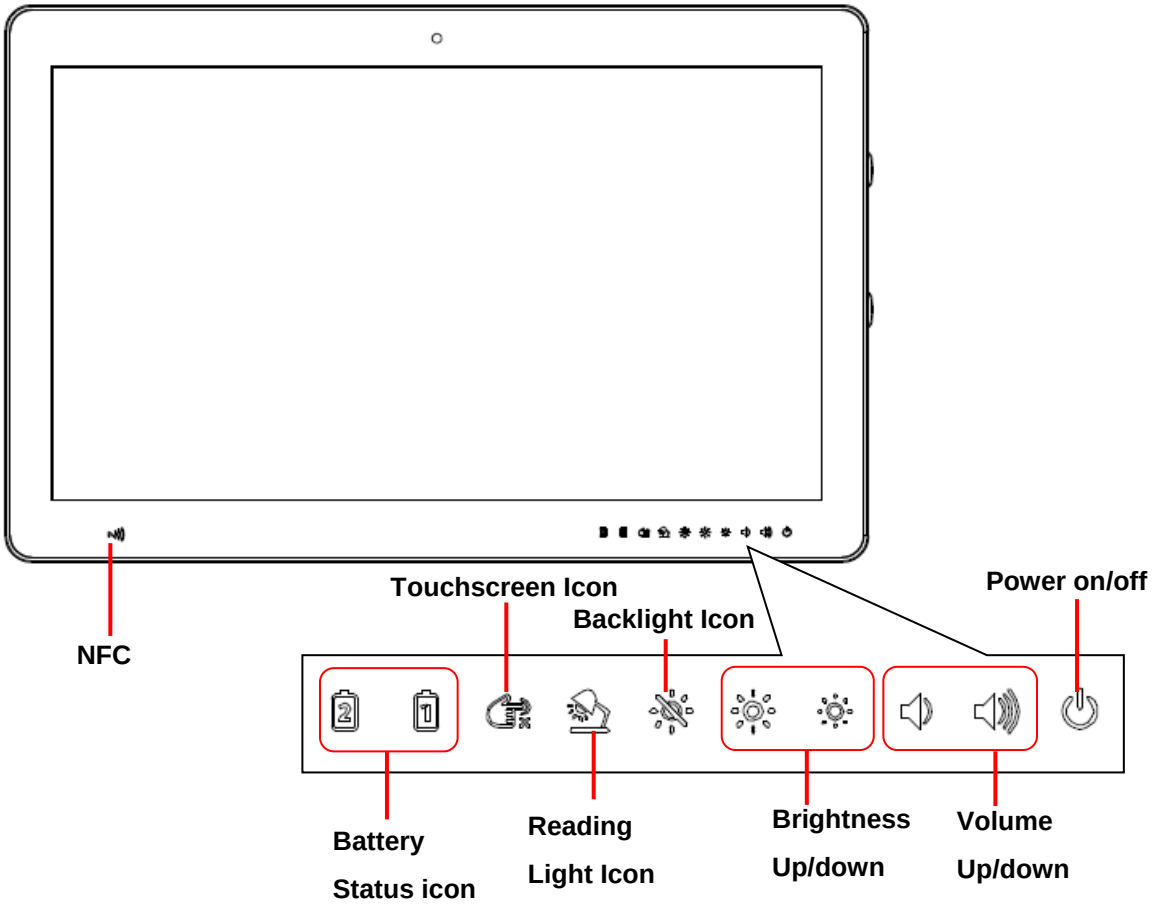
Color	White Plastic
Fanless	Yes
Reliability	
EMI Test	CE/ FCC class B
Safety	EN 300 330 EN 62368-1 (LVD)
Dust and Rain Test	Front Panel IP65
Vibration Test	Random Vibration Operation Reference IEC60068-2-64 Testing procedures Test Fh : Vibration boardband random Test 1 Test PSD : 0.00454G²/Hz , 1.5 Grms 2 Test frequency : 5~500 Hz 3 Test axis : X,Y and Z axis 4 Test time : 30 minutes each axis 5 System condition : operation mode 6 Test curve Sine Vibration Test Reference IEC60068-2-6 Testing procedures Test Fc : Vibration sinusoidal 1 Test Acceleration : 2G 2 Test frequency : 5~500 Hz 3 Sweep：1 Oct/ per one minute. (logarithmic) 4 Test axis : X,Y and Z axis 5 Test time :30 min. each axis 6 System condition : Non-Operating mode 7 Test curve Package Vibration Test: Reference IEC60068-2-64 Testing procedures Test Fh : Vibration boardband random Test 1 Test PSD : 0.026G²/Hz , 2.16 Grms 2 Test frequency : 5~500 Hz 3 Test axis : X,Y and Z axis 4 Test time : 30 minutes each axis 5 Test curve
Mechanical Shock Test	With CF/SSD: 10Grms, IEC 60068-2-27, Half Sine, 11ms
Drop Test	Package drop test Reference ISTA 2A, Method : IEC-60068-2-32 Test:Ed Test Ea : Drop Test 1 Test phase : One corner, three edges, six faces

	2 Test high : 3 Package weight : 4 Test drawing
Operating Temperature	0 ~ 40 degree
Operating Humidity	0 ~ 90% Relative Humidity, Non-condensing
Storage Temperature	-20 ~ 60 degree

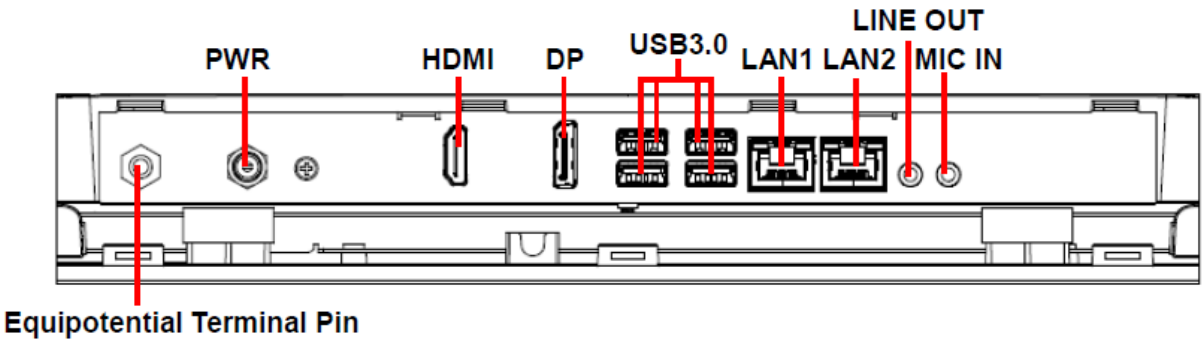
Note: Specifications are subject to change without notice.

1.4 System Overview

1.4.1 Front View



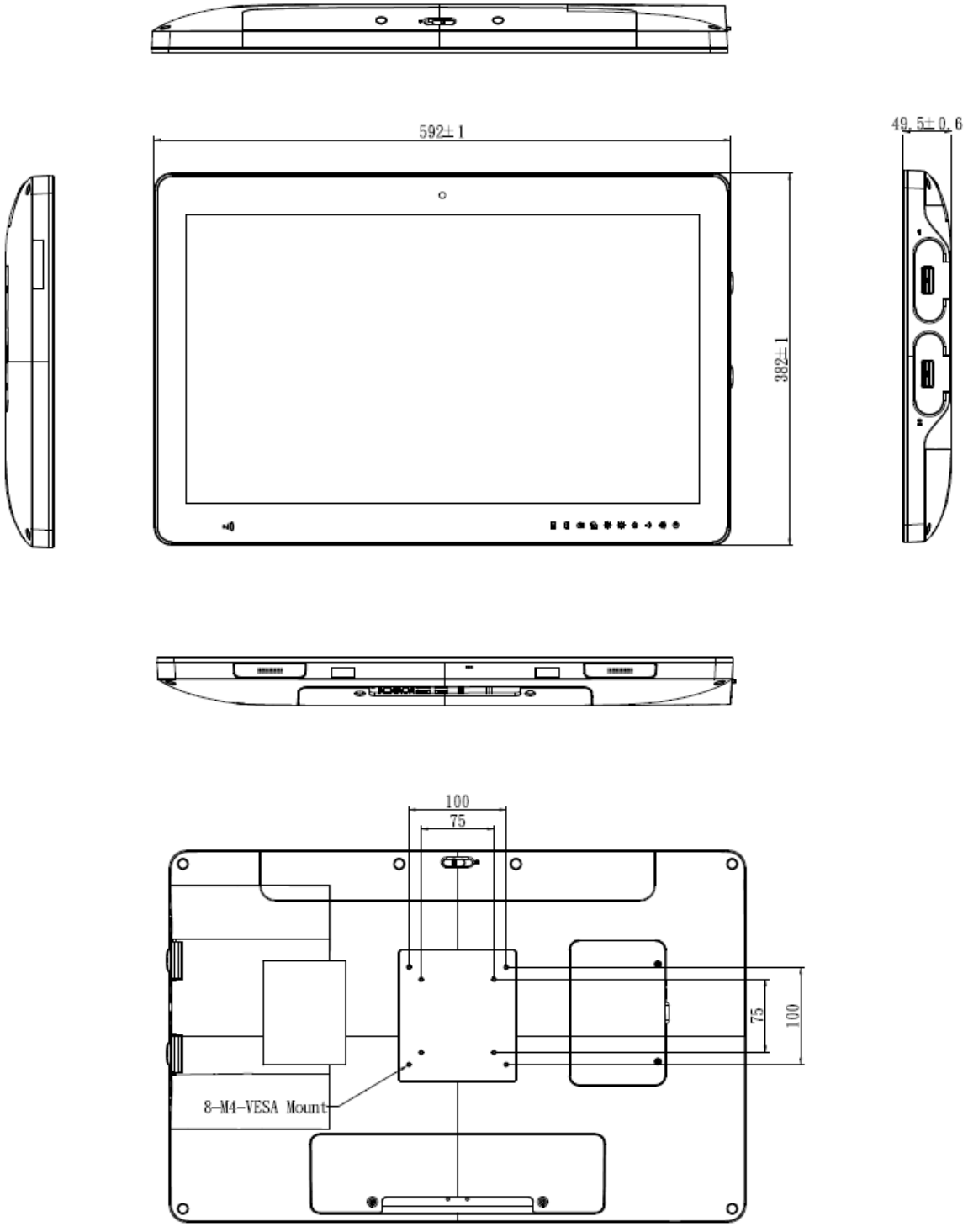
1.4.2 Rear View



Connectors

Label	Function	Note
Equipotential Terminal Pin	For connect hospital ground/earth	DB-9 male connector
PWR	System power indicator	
HDMI	HDMI connector	
DP	DP connector	
USB3.0	4 x USB 3.0 connector	
LAN1/2	RJ-45 Ethernet 1/2	
MIC IN	Mic-in audio jack	
LINE OUT	Line-out audio jack	

1.5 System Dimensions



(Unit: mm)

2. Hardware Configuration

For advanced information, please refer to:

1- APC-2334 Main Board/DB-A included in this manual.

Note: If you need more information, please visit our website:
http://www.avalue.com.tw

2.1 VESA Mounting

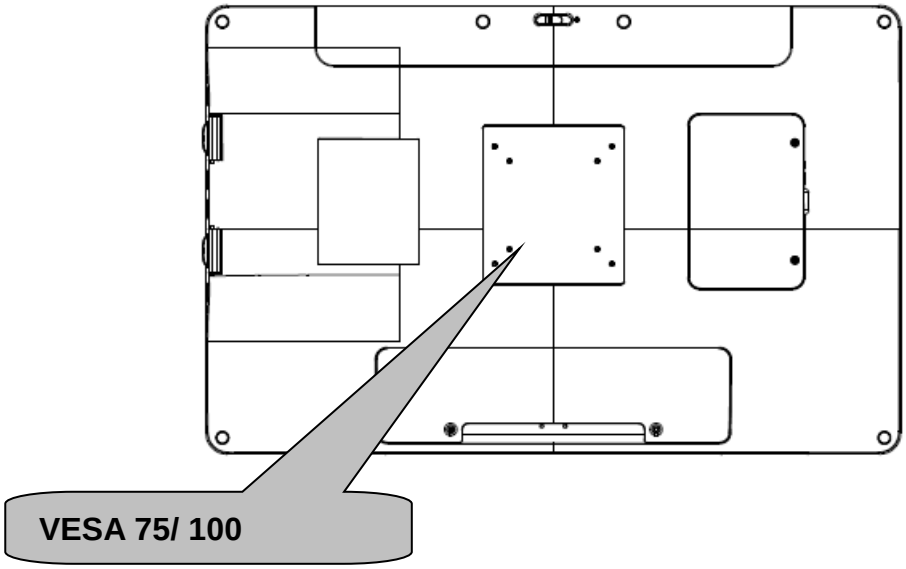
The APC-2334 also provides standard VESA mounting to help system integrators conveniently integrate the panel PC into their system.

Never use mounting brackets except as provided by Avalue to prevent unreliable mounting of the APC-2334. VESA mount installation should be carried out by a professional technician; please contact a service technician or your retailer if you need this service.

Installation instructions follow:

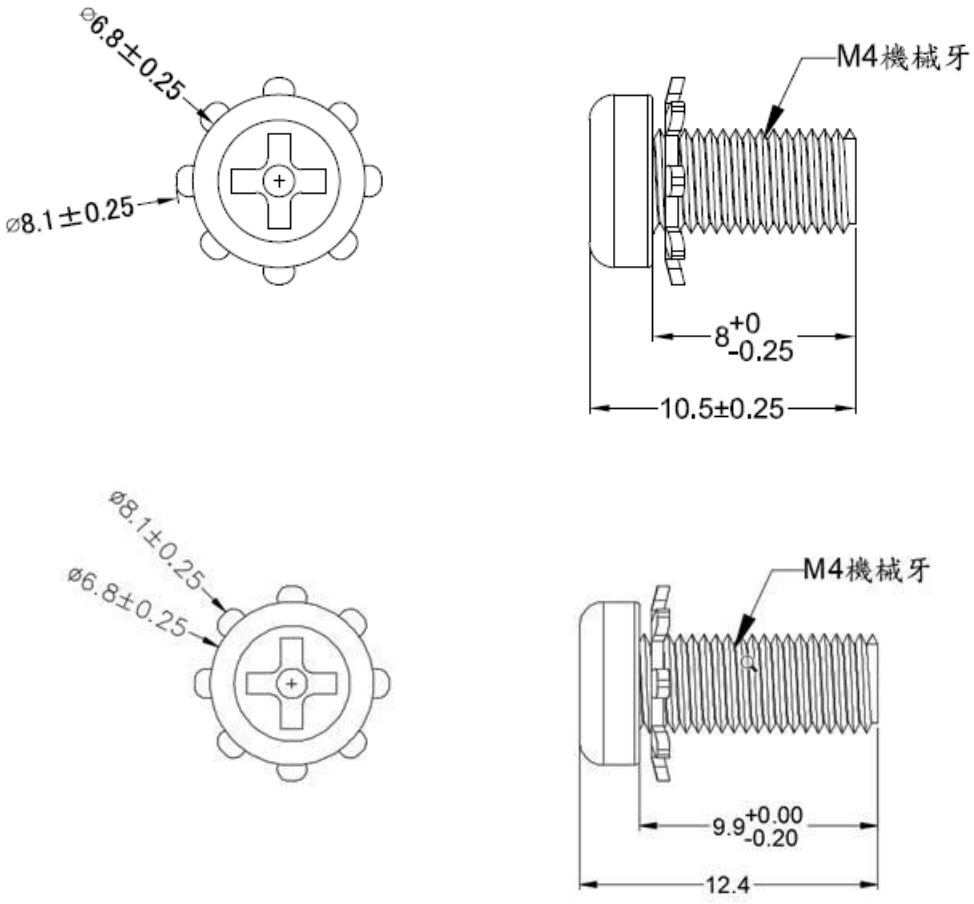
1. First attach the wall-mounting to the heat-sink of the APC-2334, securing it in place with four of the M4 x 6mm screws provided.
2. Mount the on the wall, stand or other flat surface.

Warning! *Be sure to secure the screws of the mounting bracket tightly. A loose joint between the* APC-2334 *and mounting bracket may create danger of injury.*



Suggested Screw type for mounting

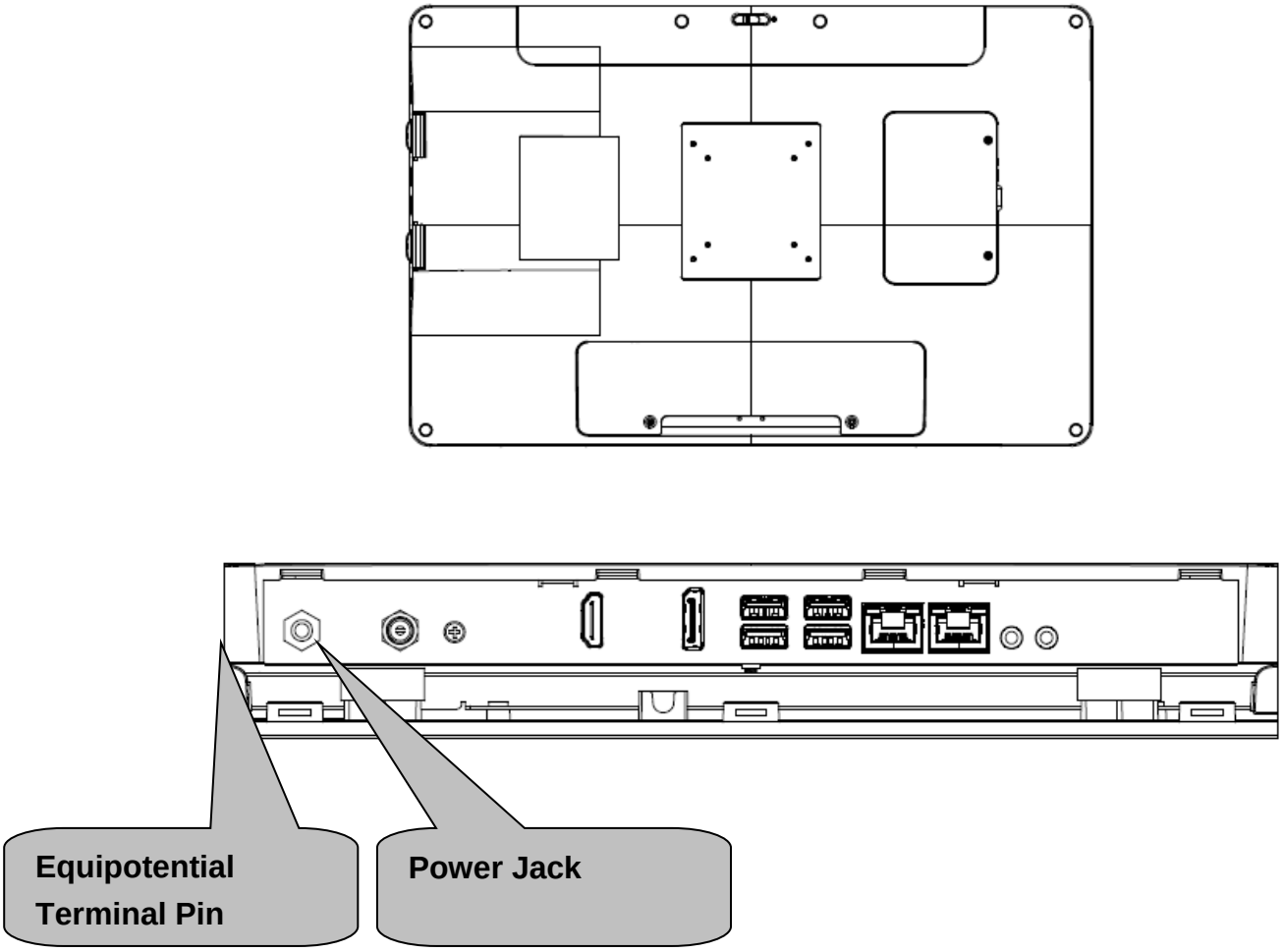
Note: 4 pieces of M4 x 8mm~10mm screws



Warning! Use suitable mounting apparatus to avoid risk of injury.

2.2 Cabling

1. Power Cable
2. Equipotential Terminal Pin



Follow below step Connecting the Ground pin

1. With system ready, find the equipotential terminal on the rear side of the APC-2334. An equipotential terminal is provided to optionally connect to a hospital ground/earth system.
2. Prepare grounding cable and the other terminal links to the hospital ground/ earth system.
3. Grounding cable plug with Equipotential Terminal

2.3 Cleaning and Disinfecting

During normal use of APC-2334, the device may become dirty and should be regularly cleaned.

Cleaning Instructions

1. To properly maintain and clean the surfaces, use a damp cloth for cleaning.

2. You may wet a soft, lint-free or microfiber cloth with cleaning agent per manufacturer's instructions or hospital protocol.

3. You may disable the touchscreen in advance to avoid false triggers during cleaning process.

User Behavior	Backlight & Touchscreen Status
Long press backlight icon for 3 seconds when backlight is on	Backlight is turned off. Touchscreen is locked simultaneously. Touchscreen icon shows solid blue light.
Long press backlight icon for 3 seconds when backlight is off	Backlight is turned on. Brightness level automatically return to the value before backlight was off. Touchscreen remains locked.
Long press touchscreen icon 3 seconds when backlight is off	Touchscreen is unlocked. Backlight is turned on simultaneously. Brightness level automatically return to the value before backlight was off.

4. Wipe the PC in a gentle motion to remove dust, oil, or fingerprint smudges.

5. Do not use liquid or spray detergents directly for cleaning. To avoid short-circuiting and otherwise damaging the device, do not allow fluids to come in contact with the device. If fluids are accidentally spilled on the equipment, remove the affected unit from service as soon as possible and contact the service personnel for verification.

Cleaning Tools

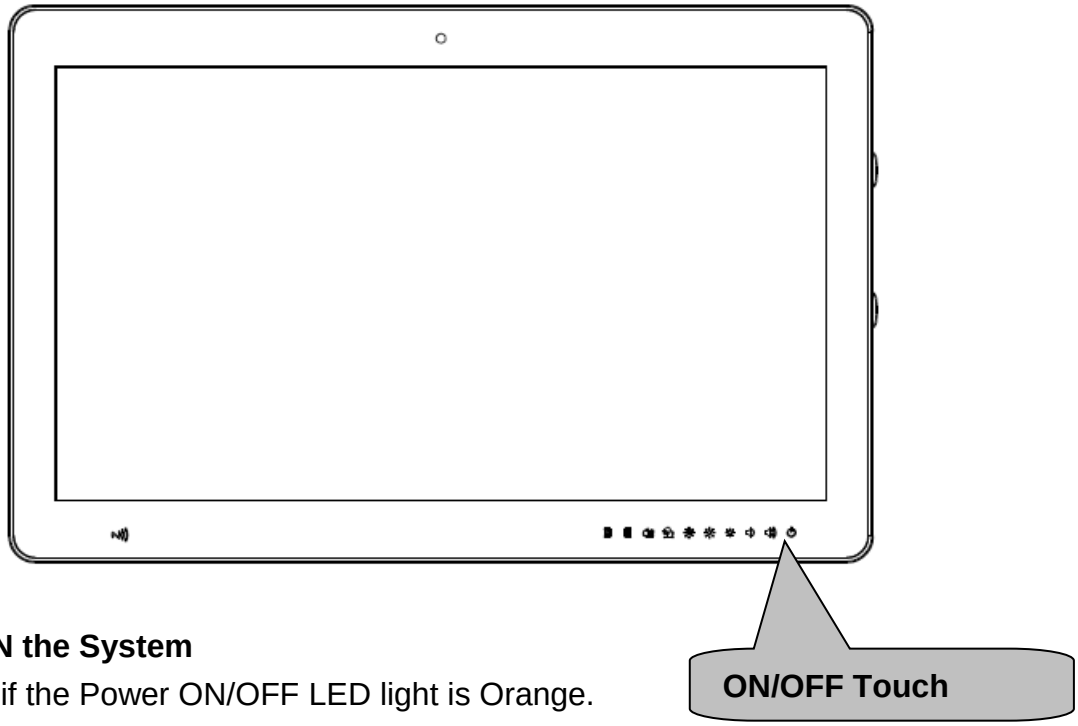
Below is a list of some items that may be needed or used when cleaning the PC or PC peripherals.

Please keep in mind that some components in PC components may only be cleaned using a product designed for cleaning that component.

Cleaning agent list: chemical disinfectants which have been tested on the PC

No.	Cleaning agent
1	Acetic Acid
2	Acetone
3	Alcohol
4	Alcohol 70%
5	Ammonia
6	Artificial Perspiration (JIS K6772)
7	Boil Water
8	Caustic Soda
9	Cidex
10	Cold Cream Applied
11	Detergent (Kao Mypet) Applied
12	Ethanol
13	Gasoline
14	Glycerine
15	Green tinctured soap
16	Hydrochloric Acid
17	Incidin liquid
18	Incidin plus
19	Isopropyl alcohol
20	Kerosene
21	Lanoline Applied
22	Methanol
23	Mikrozid liquid
24	Nitric Acid
25	Paraffin Oil
26	Propanol
27	Solution of salt
28	Sulfuric Acid
29	Toluene
30	Vaseline Applied
31	Virkon and water (1:100)
32	Windex

2.4 Turn ON/OFF the System



3.1.1 Turn ON the System

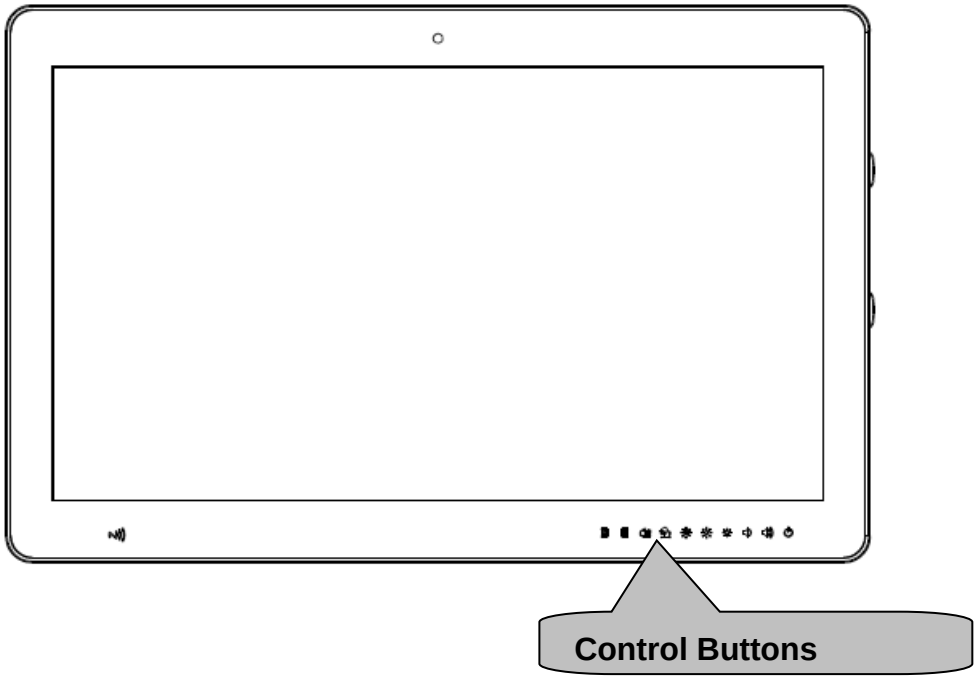
1. Check if the Power ON/OFF LED light is Orange.
2. Press the Power ON/OFF icon firmly to turn power ON/OFF
3. The Power ON/OFF LED will turn green to indicate power is on.

3.1.2 Turn OFF the System

1. Press on the Power ON/OFF icon firmly for 4 seconds.
2. The Power ON/OFF LED will turns orange to indicate power is off.
3. Your system is turned OFF.

Note: We recommend using operating system shut down procedure to turn the system OFF.

2.5 Using LCD Display and Touch Screen



3.2.1 Adjust System Volume

1. Press the Volume Up or Volume Down icon to increase or decrease volume
2. The volume will be adjusted accordingly.

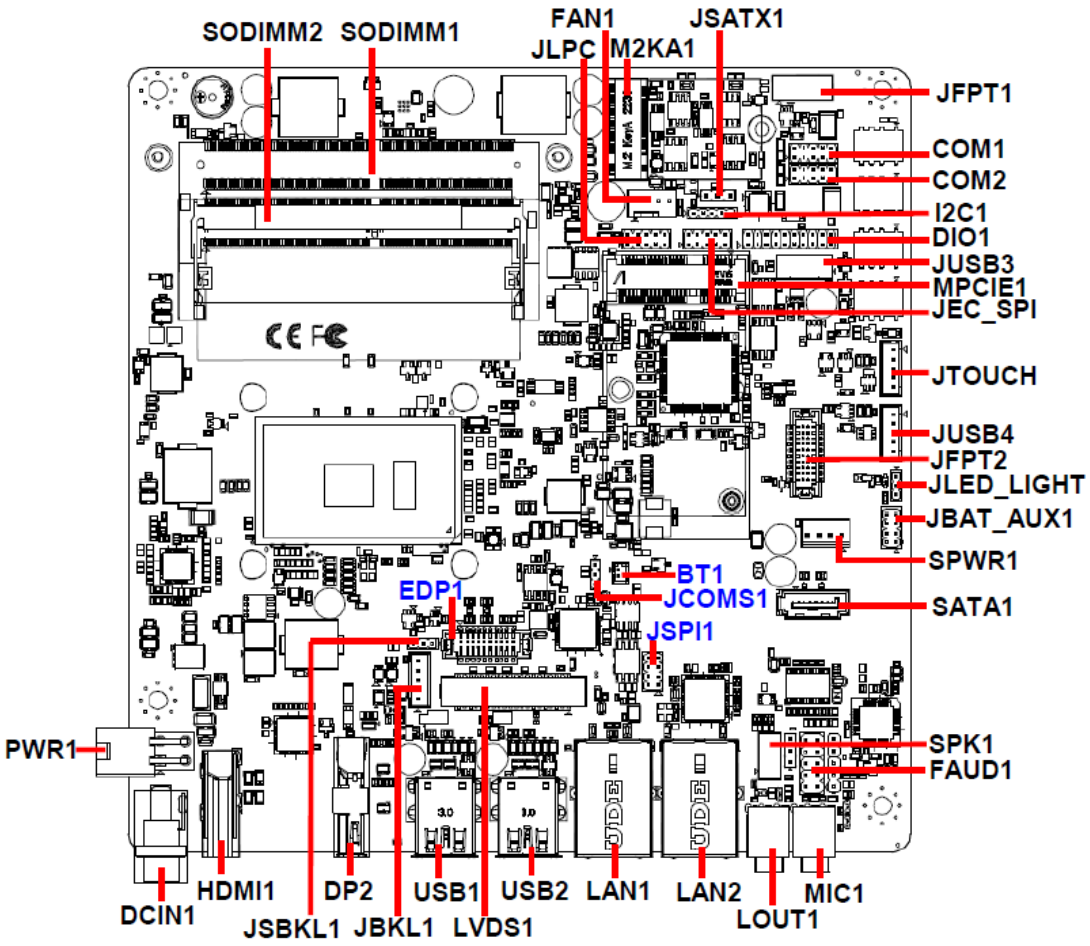
3.2.2 Adjust LCD Display Brightness

1. Press the Brightness Up or Brightness Down icon to increase or decrease brightness.
2. The brightness of the LCD display will be adjusted accordingly.

3.2.3 LED reading light & Touch function

1. Press LED reading light icon for 2 sec to turn on the light bar.
2. Press LED reading light icon for 2 sec to turn off the light bar
3. Press LED reading light icon for 4 secs to turn off the touch function (touch function always on as default)
4. Press LED reading light icon for 4 secs to turn on the touch function

2.6 HID-2334 Main Board Overviews



2.7 HID-2334 Main Board Jumper and Connector list

Jumpers

Label	Function	Note
JCOMS1	Clear CMOS	3 x 1 header, pitch 2.00mm
JSBKL1	LCD backlight brightness adjustment	3 x 1 header, pitch 2.54mm
JSATX1	AT/ATX auto power on select	3 x 1 header, pitch 2.00mm

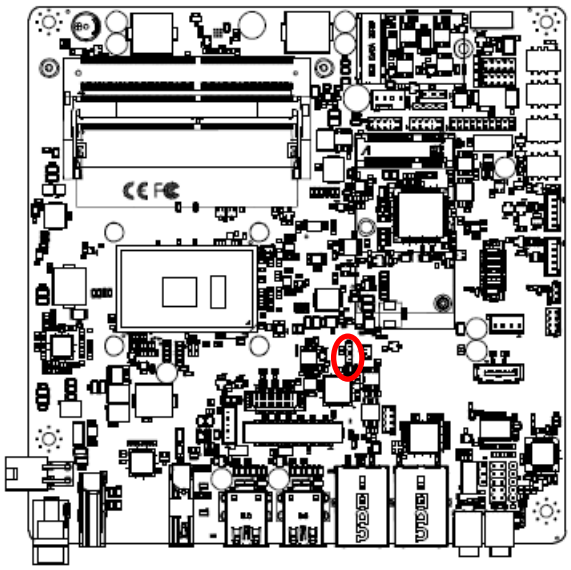
Connectors

Label	Function	Note
SODIMM1/2	2 x 260-Pin DDR4 2400MHz SO-DIMM	
COM1	Serial port 1 connector(Reserved)	5 x 2 header, pitch 2.00 mm
COM2	Serial port 2 connector(Reserved)	5 x 2 header, pitch 2.00 mm
SPK1	Speaker connector	4 x 1 wafer, pitch 2.00 mm
FAN1	Fan connector	4 x 1 wafer, pitch 2.54 mm
JBKL1	LCD inverter connector	5 x 1 wafer, pitch 2.00 mm Matching Connector: JST PHR-5
JLPC	LPC connector	5 x 2 header, pitch 2.00 mm
LVDS1	LVDS connector	20 x 2 wafer, pitch 1.25 mm Matching Connector: Hirose DF13-40DS-1.25C
JFPT1	Front Panel connector 1	5 x 2 header, pitch 2.54 mm
JFPT2	Front Panel connector 2	10 x 2 wafer, pitch 1.25 mm
DP2	Display Port connector	10 x 2 wafer, pitch 1.25 mm
USB1/2	USB connector 1/2	
JUSB3	On-board header for USB2.0	5 x 2 wafer, pitch 2.00 mm
JUSB4	On-board header for USB2.0	5 x 1 wafer, pitch 2.00 mm
JTOUCH	Touch Panel connector	5 x 1 wafer, pitch 2.00 mm
LAN1/2	RJ-45 Ethernet 1/2	
MPCIE1	Mini-PCIe connector	
BT1	Battery connector	2 x 1 wafer, pitch 1.25 mm
DIO1	General purpose I/O connector	10 x 2 wafer, pitch 2.00 mm
HDMI1	HDMI connector	
M2KA1	M.2 A key slot	
PWR1	Power connector	2 x 2 wafer, pitch 4.20 mm

I2C1	I2C connector(Reserved)	5 x 1 header, pitch 2.00 mm
JSPI1	SPI connector	4 x 2 header, pitch 2.00 mm
JEC_SPI	EC Debug connector	5 x 2 header, pitch 2.00 mm
SATA1	Serial ATA connector	
SPWR1	SATA Power connector	4 x 1 wafer, pitch 2.54 mm
JLED_LIGHT	Reading Light connector	3 x 2 header, pitch 2.00 mm
JBAT_AUX1	Battery mode connector	4 x 2 header, pitch 2.00 mm
EDP1	Display Port connector	10 x 2 wafer, pitch 1.25 mm
DCIN1	DC power-in connector	
MIC1	Mic-in audio jack	
LOUT1	Line-out audio jack	
FAUD1	Front Audio connector	5 x 2 header, pitch 2.54 mm

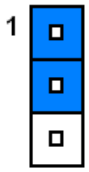
2.8 HID-2334 Main Board Jumpers & Connectors settings

2.8.1 Clear CMOS (JCOMS1)

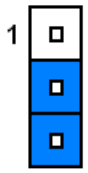


*Default

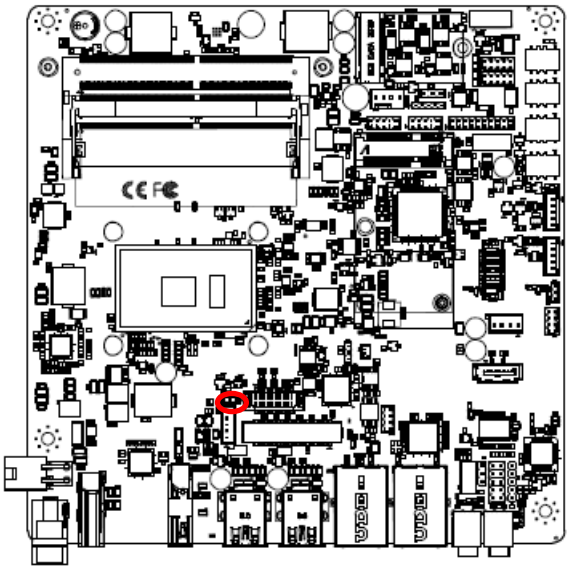
Protect*



Clear CMOS

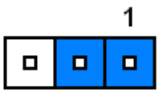


2.8.2 LCD backlight brightness adjustment (JSBKL1)

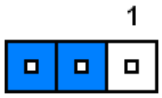


* Default

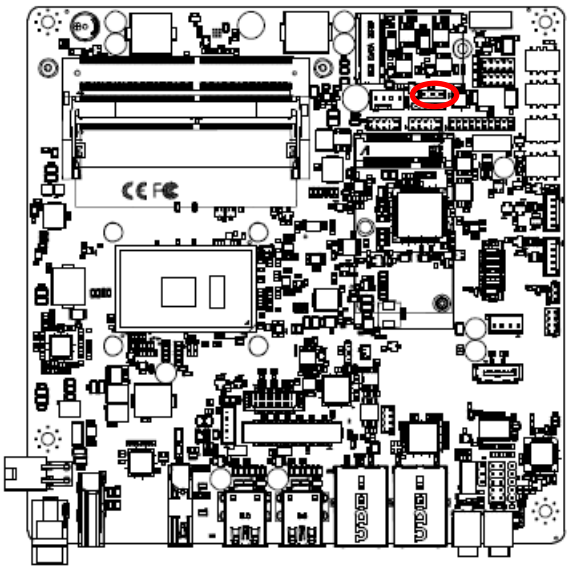
PWM Mode*

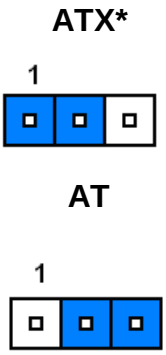


DC Mode



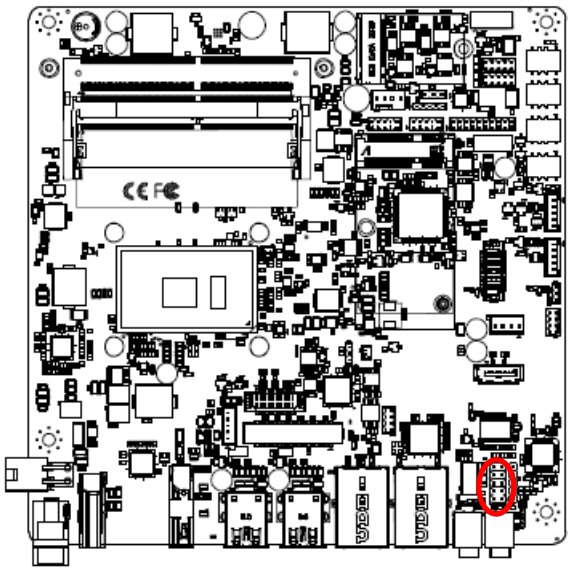
2.8.3 AT/ATX auto power on select (JAT1)

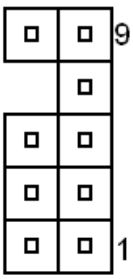




*** Default**

2.8.4 Front Audio connector (FAUD1)



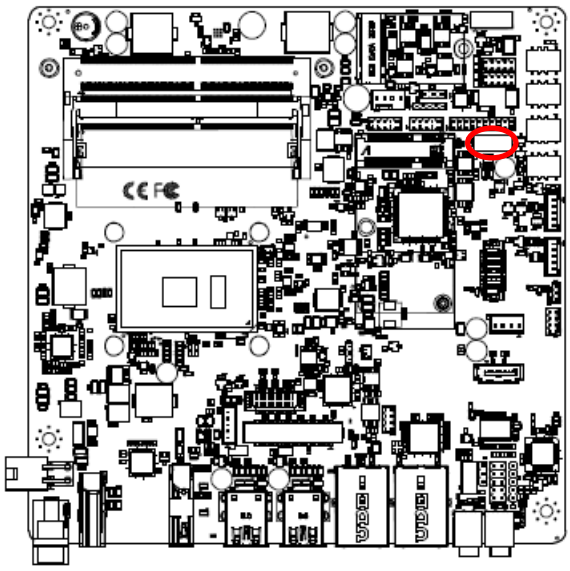


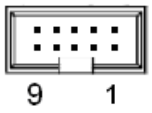
Signal	PIN	PIN	Signal
LINE2_JD	10	9	LINE2_LIN
HD_AGND		7	GND
MIC2_JD	6	5	LINE2_RIN
AUD_FRONT_DET	4	3	MIC2_RIN
GND	2	1	MIC2_LIN

2.8.4.1 Signal Description –Front Audio connector (FAUD1)

Signal	Signal Description
LINE2-JD	AUDIO IN (LINE_RIN/LIN)sense pin
MIC2-JD	MIC IN (MIC_RIN/LIN) sense pin

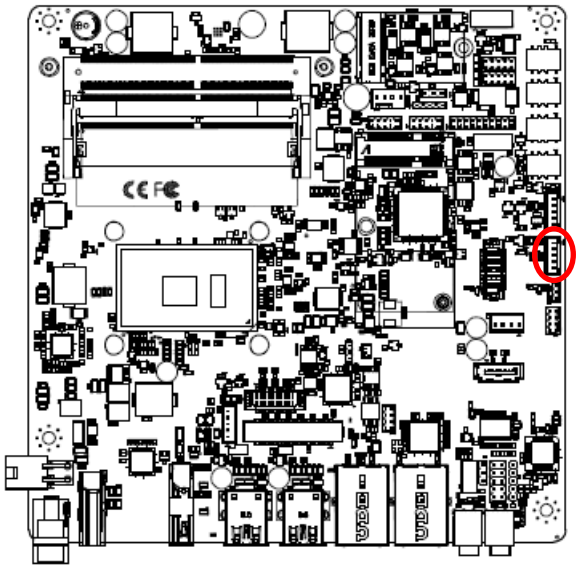
2.8.5 On-board header for USB2.0 (JUSB3)





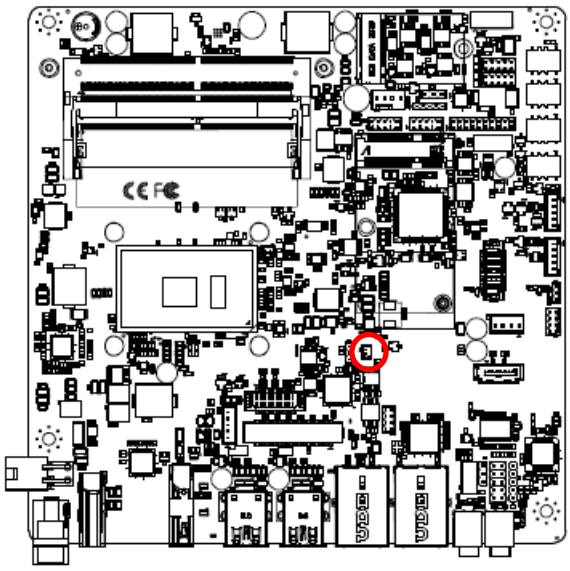
Signal	PIN	PIN	Signal
+5VSB	2	1	+5VSB
USB_DN7	4	3	USB_DN8
USB_DP7	6	5	USB_DP8
GND	8	7	GND
GND	10	9	GND

2.8.6 On-board header for USB2.0 (JUSB4)



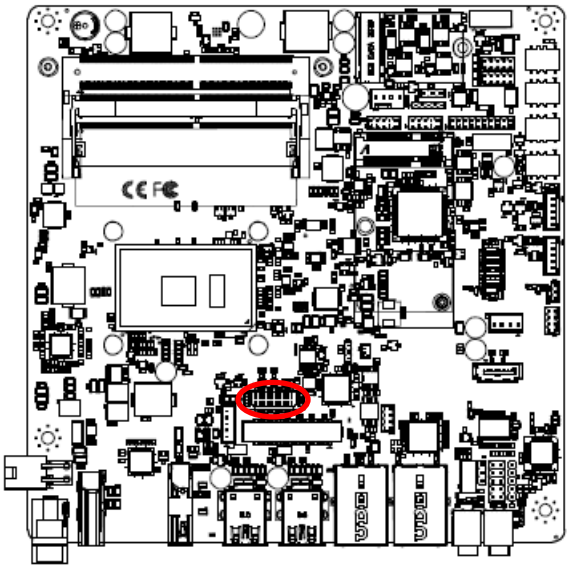
Signal	PIN
+5VSB	1
USB_DN9	2
USB_DP9	3
GND	4
GND	5

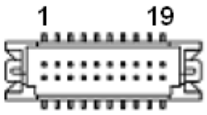
2.8.7 Battery connector (BT1)



Signal	PIN
+RTCBAT	1
GND	2

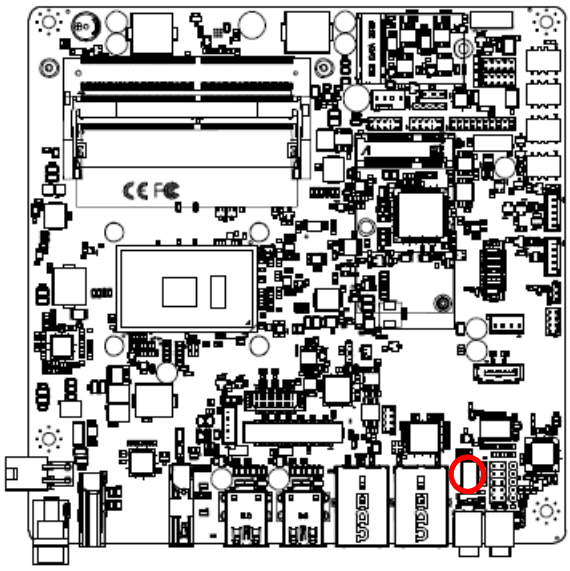
2.8.8 Display Port connector (EDP1)





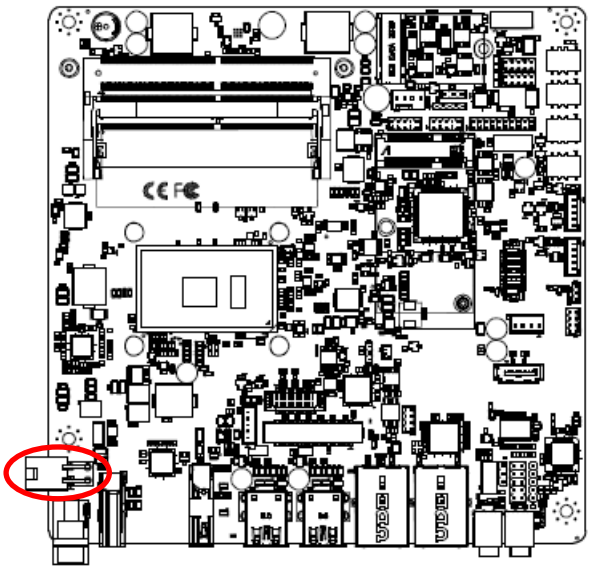
Signal	PIN	PIN	Signal
GND	1	2	GND
EDP_PanelTXN0	3	4	EDP_PanelTXN3
EDP_PanelTXP0	5	6	EDP_PanelTXP3
GND	7	8	Nc
EDP_PanelTXN1	9	10	GND
EDP_PanelTXP1	11	12	EDP_PanelAUXN
GND	13	14	EDP_PanelAUXP
EDP_PanelTXN2	15	16	GND
EDP_PanelTXP2	17	18	EDP_Panel_HPD
+V3512_EDP	19	20	+V3512_EDP

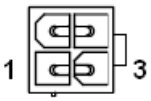
2.8.9 Speaker connector (SPK1)



Signal	PIN
SPK_R-	4
SPK_R+	3
SPK_L-	2
SPK_L+	1

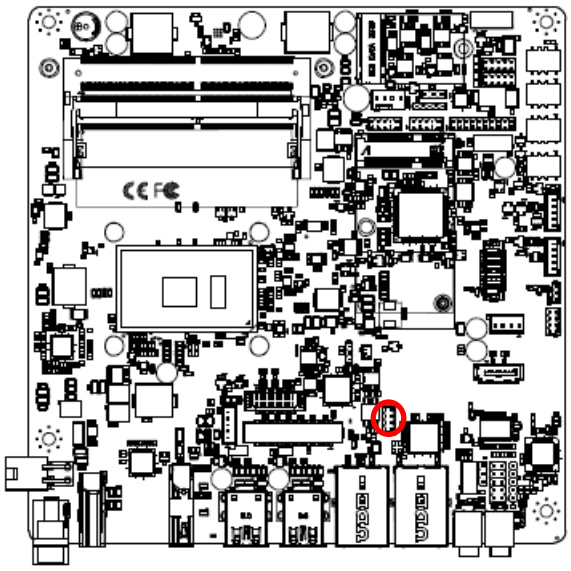
2.8.10 Power connector (PWR1)

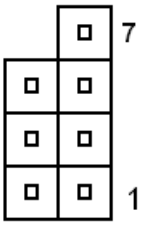




Signal	PIN	PIN	Signal
GND	2	4	+VIN_26V
GND	1	3	+VIN_26V

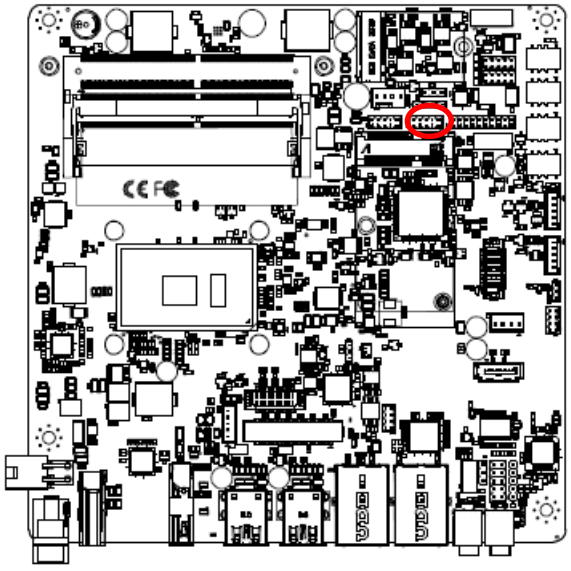
2.8.11 SPI connector (JSPI1)

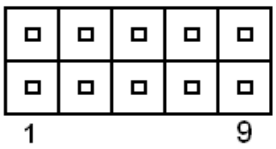




Signal	PIN	PIN	Signal
		7	HOLD#
SPI_SI	6	5	SPI_SO
SPI_CLK	4	3	SPI0_CS0#
GND	2	1	+3.3VSB

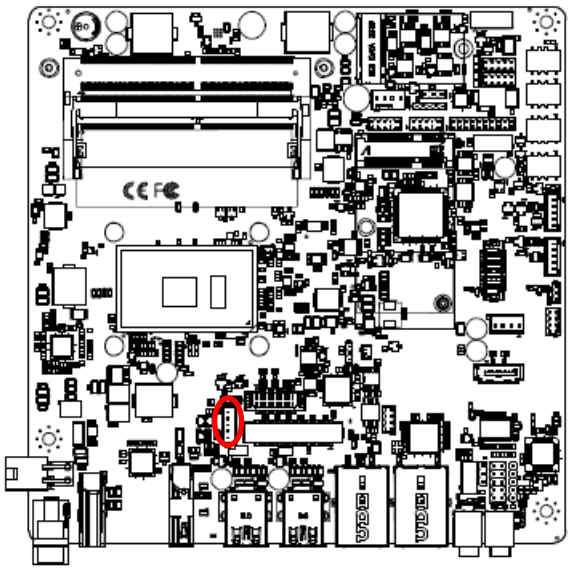
2.8.12 EC Debug connector (JEC_SPI)





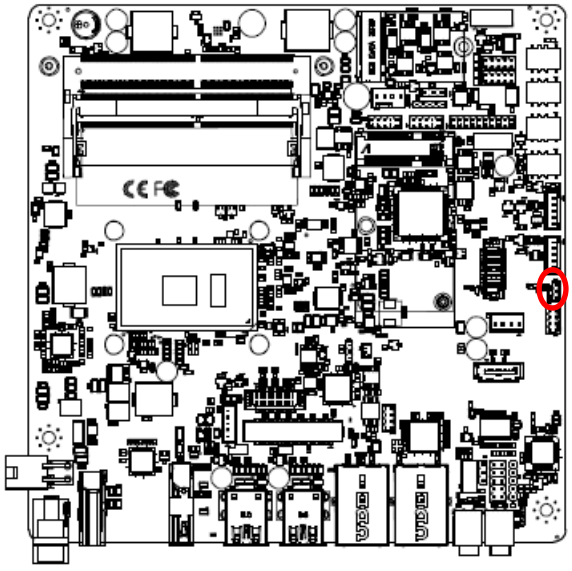
Signal	PIN	PIN	Signal
+3VSPI_EC	1	2	GND
EC_FSCE#	3	4	EC_FSCK
EC_FMISO	5	6	EC_FMOSI
EC_HOLD#	7	8	NC
EC_SMCLK	9	10	EC_SMDAT

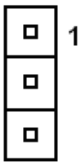
2.8.13 LCD Inverter connector (JBKL1)



Signal	PIN
+5V	5
LVDS_BKLTCTL	4
LVDS_BKLT_EN	3
GND	2
+12V	1

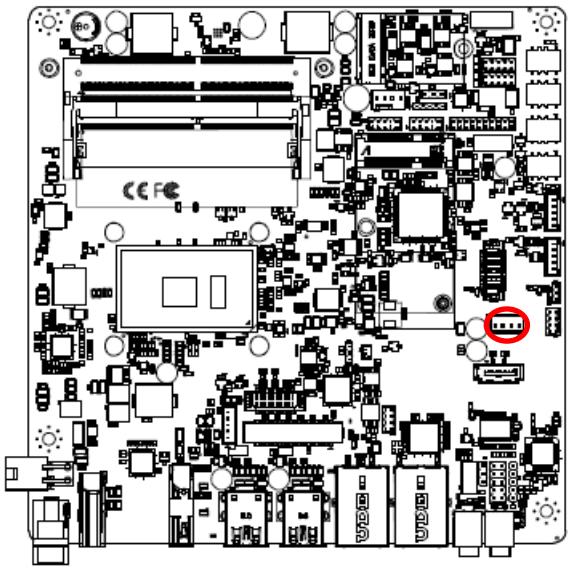
2.8.14 Reading Light connector (JLED_LIGHT)

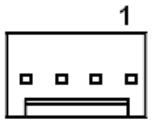




Signal	PIN
+5VSB	1
READ_LIGHT_EN	2
GND	3

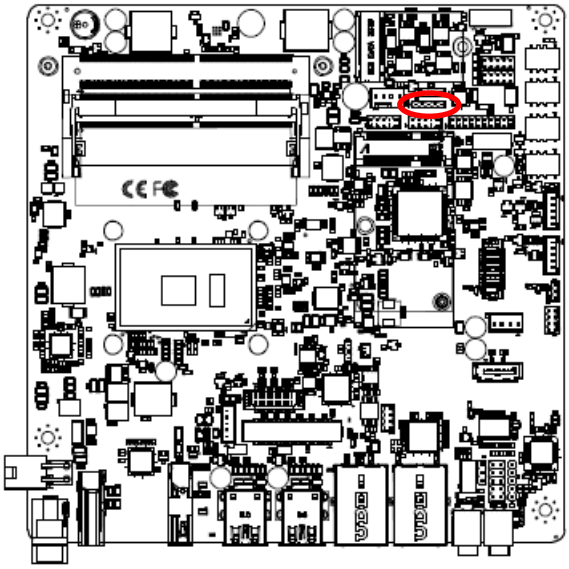
2.8.15 SATA Power connector (SPWR1)





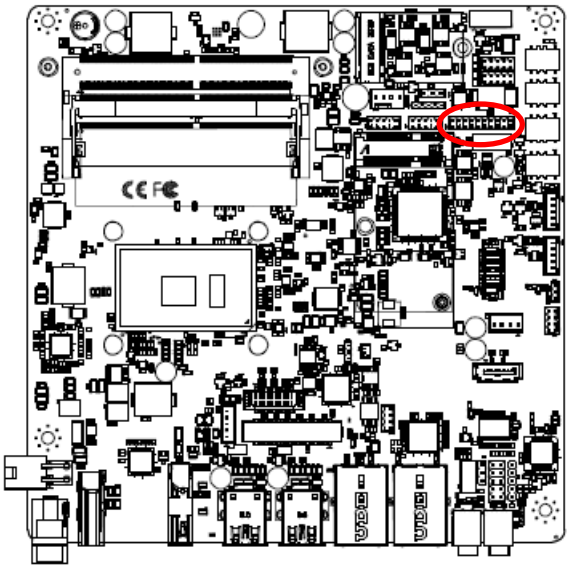
Signal	PIN
+5V	1
GND	2
GND	3
+12V	4

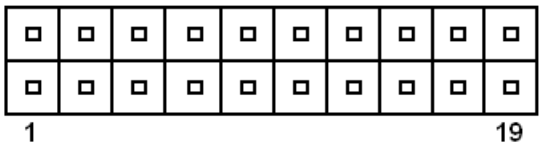
2.8.16 I2Cconnector (I2C1)



Signal	PIN
+3.3V	1
INT_I2C0#	2
I2C0_CLK	3
I2C0_DATA	4
GND	5

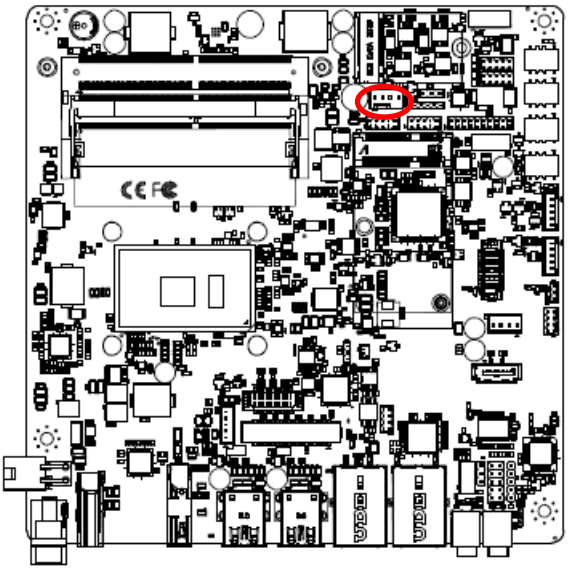
2.8.17 General purpose I/O connector (DIO1)

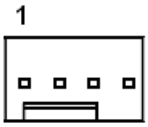




Signal	PIN	PIN	Signal
DI0	1	2	DO0
DI1	3	4	DO1
DI2	5	6	DO2
DI3	7	8	DO3
DI4	9	10	DO4
DI5	11	12	DO5
DI6	13	14	DO6
DI7	15	16	DO7
SMB_CLK_S	17	18	SMB_DATA_S
GND	19	20	+5V

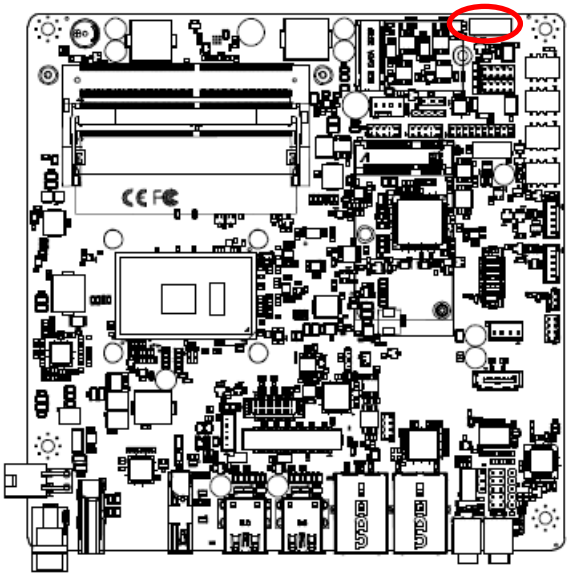
2.8.18 Fan connector (FAN1)

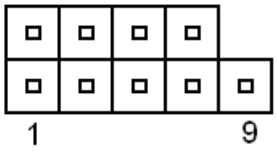




Signal	PIN
GND	1
+12V	2
CPUFANIN	3
FAN_PWM0	4

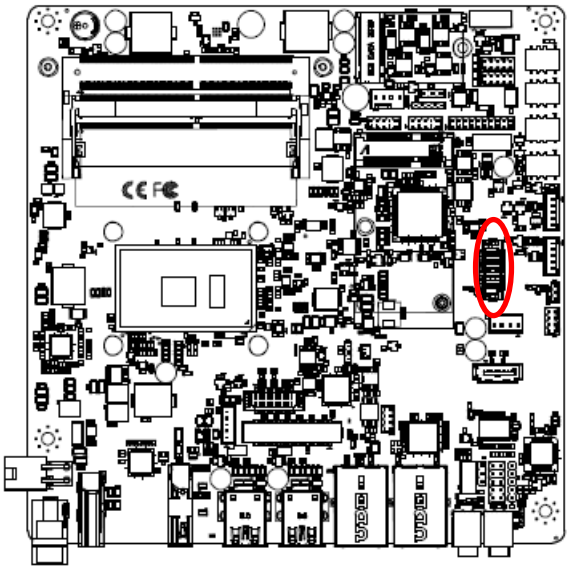
2.8.19 Front Panel connector 1 (JFPT1)

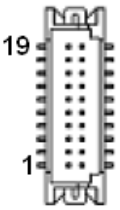




Signal	PIN
+HD_LED	1
+PWR_LED	2
-HD_LED	3
-PWR_LED	4
+Reset	5
+PWR_BNT	6
-Reset	7
-PWR_BNT	8

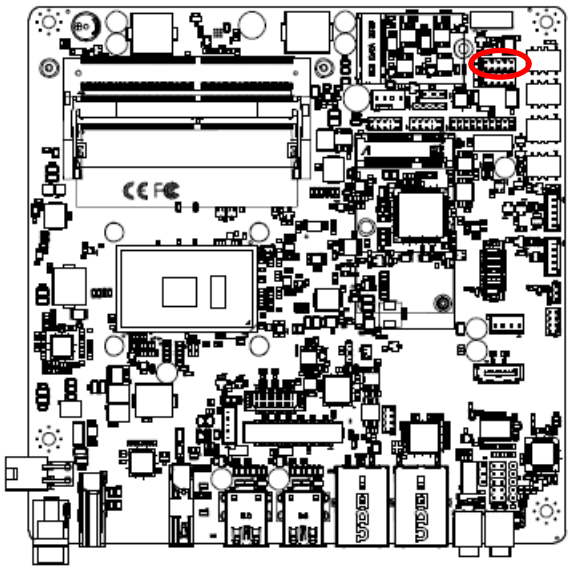
2.8.20 Front Panel connector 2 (JFPT2)

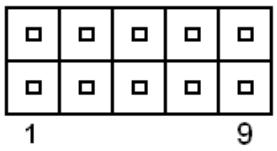




Signal	PIN	PIN	Signal
NC	19	20	NC
NC	17	18	PWR_LED#
TOUCH_OFF_LED#	15	16	SUS_LED#
BATTERY_2_B#	13	14	PWR_BTN_EC#
BATTERY_2_O#	11	12	TOUCH_ON_OFF
BATTERY_1_B#	9	10	VOLUME_DN
BATTERY_1_O#	7	8	VOLUME_UP
READ_LIGHT	5	6	BLK_BRI_DN
BKL_ON_OFF	3	4	BLK_BRI_UP
+3.3V	1	2	GND

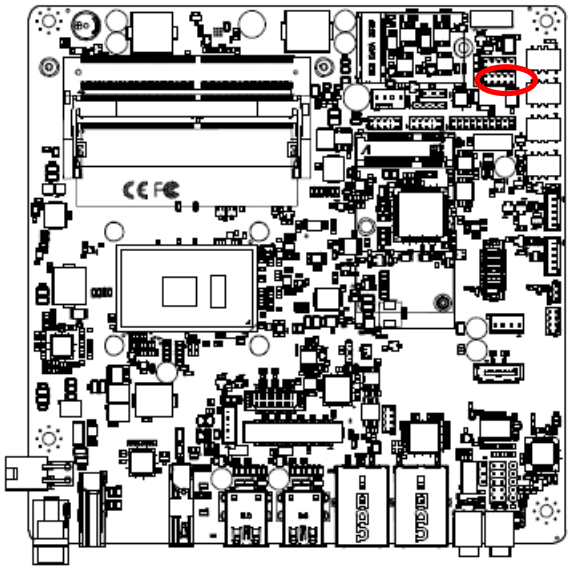
2.8.21 Serial port 1 connector (COM1)

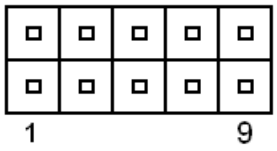




Signal	PIN	PIN	Signal
COM_DCD#_1 _485_422TX1-	1	2	COM_RXD#_1 _422RX1+
COM_TXD_1	3	4	COM_DTR#_1
GND	5	6	COM_DSR#_1 _485_422TX1+
COM_RTS#_1	7	8	COM_CTS#_1 _422RX1-
COM_RI#_1	9	10	NC

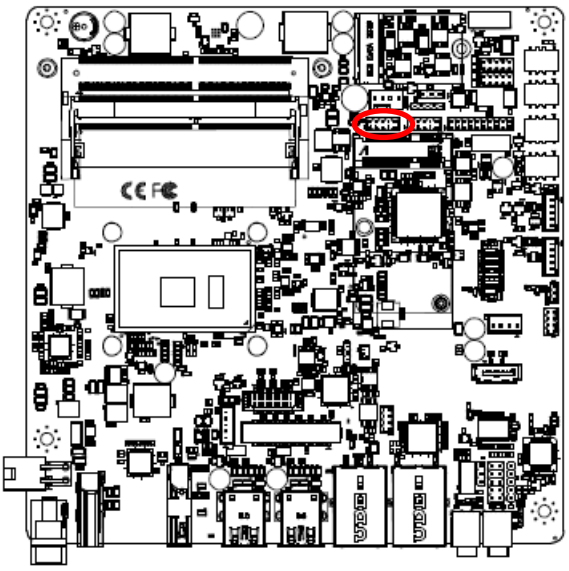
2.8.22 Serial port 2 connector (COM2)

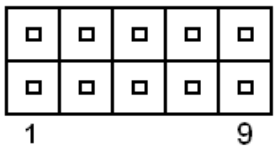




Signal	PIN	PIN	Signal
COM_DCD#_2 _485_422TX2-	1	2	COM_RXD#_2 _422RX2+
COM_TXD_2	3	4	COM_DTR#_2
GND	5	6	COM_DSR#_2 _485_422TX2+
COM_RTS#_2	7	8	COM_CTS#_2 _422RX2-
COM_RI#_2	9	10	NC

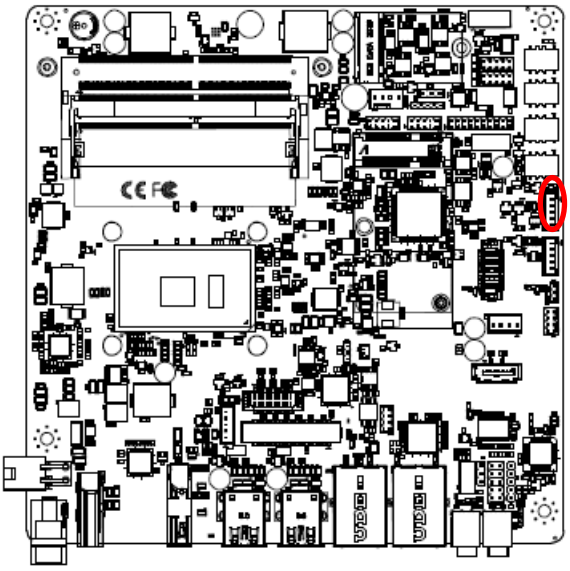
2.8.23 LPC connector (JLPC)





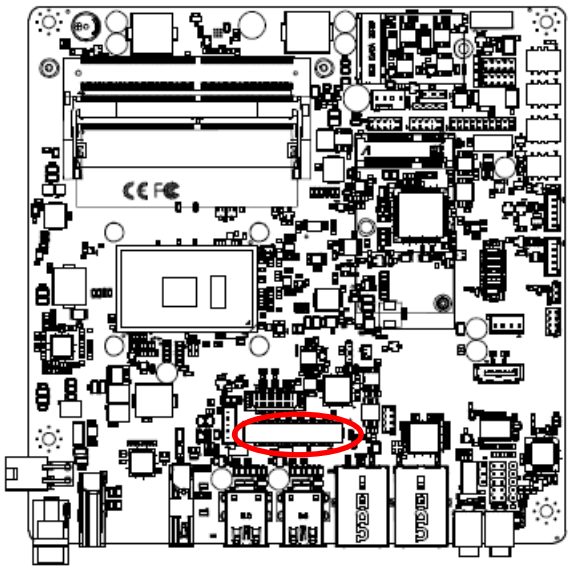
Signal	PIN	PIN	Signal
LPC_AD0	1	2	+3.3V
LPC_AD1	3	4	PCH_PLTRST#
LPC_AD2	5	6	LPC_FRAME#
LPC_AD3	7	8	LPC_CLK
LPC_SERIRQ	9	10	GND

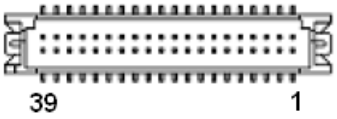
2.8.24 Touch Panel connector (JTOUCH)



Signal	PIN
+5VSB	1
USB_DN10	2
USB_DP10	3
GND	4
GND	5

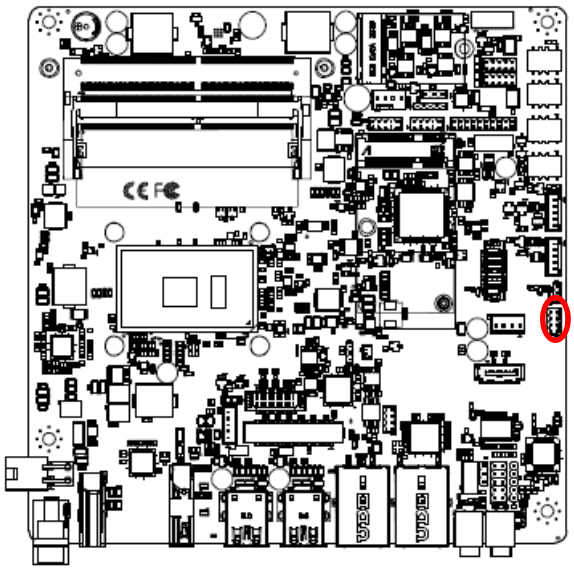
2.8.25 LVDS connector (LVDS1)

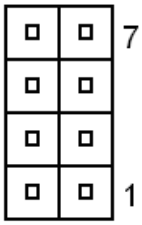




Signal	PIN	PIN	Signal
+5V	2	1	+3.3V
+5V	4	3	+3.3V
NC	6	5	NC
GND	8	7	GND
LVDS_DATA0_P	10	9	LVDS_DATA1_P
LVDS_DATA0_N	12	11	LVDS_DATA1_N
GND	14	13	GND
LVDS_DATA2_P	16	15	LVDS_DATA3_P
LVDS_DATA2_N	18	17	LVDS_DATA3_N
GND	20	19	GND
LVDS_DATA4_P	22	21	LVDS_DATA5_P
LVDS_DATA4_N	24	23	LVDS_DATA5_N
GND	26	25	GND
LVDS_DATA6_P	28	27	LVDS_DATA7_P
LVDS_DATA6_N	30	29	LVDS_DATA7_N
GND	32	31	GND
LVDS_CLK1_P	34	33	LVDS_CLK2_P
LVDS_CLK1_N	36	35	LVDS_CLK2_N
GND	38	37	GND
+12V	40	39	+12V

2.8.26 Battery mode connector (JBAT_AUX1)





Signal	PIN	PIN	Signal
CHARGER_DISABLE	8	7	GND
BAT2_PRSNT	6	5	NC
BAT1_PRSNT	4	3	EC_SMDAT1
DB_AC_SENCE	2	1	EC_SMCLK1

3. General Safety Guide

For your own safety and that of your equipment, always take the following precautions.
Disconnect the power plug (by pulling the plug, not the cord), from your computer if any of the following conditions exists:
The power cord or plug becomes frayed or otherwise damaged
You spill something into the case
Your computer has been dropped or the case has been otherwise damaged
You suspect that your computer needs service or repair
You want to clean the computer or screen
You want to remove/install any parts

Thermal

The APC-2334 is a fanless design system, heat is dispatch through rear metal heatsink which is located at VESA mount area.. When using your APC-2334 systems, it is normal for the metal heatsink to get warm. The rear metal heatsink of the APC-2334 functions as a cooling surface that transfers heat from inside the computer to the cooler air outside. Do not block this heatsink by any soft material.

Disconnect the power

The only way to disconnect power completely is to unplug the adapter power cord.
Make sure at least one end of the power cord is within easy reach so that you can unplug the computer when you need to.

Warning! *Your AC cord came equipped with a three-wire grounding plug (a plug that has a third grounding pin). This plug will fit only a grounded AC outlet. If you are unable to insert the plug into an outlet because the outlet is not grounded, contact a licensed electrician to replace the outlet with a properly grounded outlet. Do not defeat the purpose of the grounding plug.*

Warning! *Never push objects of any kind into this product through the openings in the case. Doing so may be dangerous and result in fire or a dangerous electric shock.*

Attention! *Votre cordon secteur est équipé d'une fiche de mise à la terre à trois fils (une fiche dotée d'une troisième broche de mise à la terre). Cette fiche ne s'adaptera qu'à une prise secteur mise à la terre. Si vous ne parvenez pas à insérer la fiche dans une prise car la prise n'est pas mise à la terre, contactez un électricien agréé pour remplacer la*

prise par une prise correctement mise à la terre. N'annulez pas l'objectif de la fiche de mise à la terre.

Attention! *N'introduisez jamais d'objets d'aucune sorte dans ce produit par les ouvertures du boîtier. Cela pourrait être dangereux et provoquer un incendie ou un choc électrique dangereux.*

Never place anything on system case before turn off computer.
Never turn on your computer unless all of its internal and external parts are in place.
Operating the computer when it is open or missing parts can be dangerous and can damage your computer.

Proper Handling

Handle your APC-2334 with care. It is made of metal, glass, and plastic and has sensitive electronic components inside.
Don't use a damaged APC-2334, such as one with a cracked screen, as it may cause injury.
Setup APC-2334 on a stable work surface.
Do not push objects into the ventilation openings.
To lift or move your system, hold its sides.
When you move your system, do not hit the surface of the glass.

Maintaining the Smart battery pack

If your equipment comes with the optional rechargeable smart battery pack, make sure to follow the instructions below to optimize the service life for your battery

- The battery shold be charged/discharged at temperature between 0 ~ 40°C (32~104°F)
- The battery should be stored at temperature between -20~60°C (-4~140°F)
- If the battery level is less than 10%, fully charge the battery to 100% within 24 hours.
- If the battery will not be in use for more than one week, fully charge the battery to 100% before storage, also make sure to charge the battery to 100% once a month during the storage period.
- Set it as shipping mode if need to keep longer storage period
- In case battery leakage or battery is out of function such as, can't be charge or discharge, do not open and try to change the battery, please contact with MANUFACTURER to replace the defective battery to avoid any dangerious might happen (Ex: fire or explosion).

4. Touch Button Guide

■ Power On / Off

User Behavior	Power Icon Status
Connect the adapter to the terminal with power cord plugged into a power outlet	Power icon shows solid orange
Short press power icon to turn on the terminal	Power icon shows solid blue
Long press power icon for 4 seconds while system is operating	Terminal is forced shutdown Power icon shows solid orange

■ Volume Control

User Behavior	Volume Status
Short press volume up icon	Volume level being turned up
Short press volume down icon	Volume level being turned down

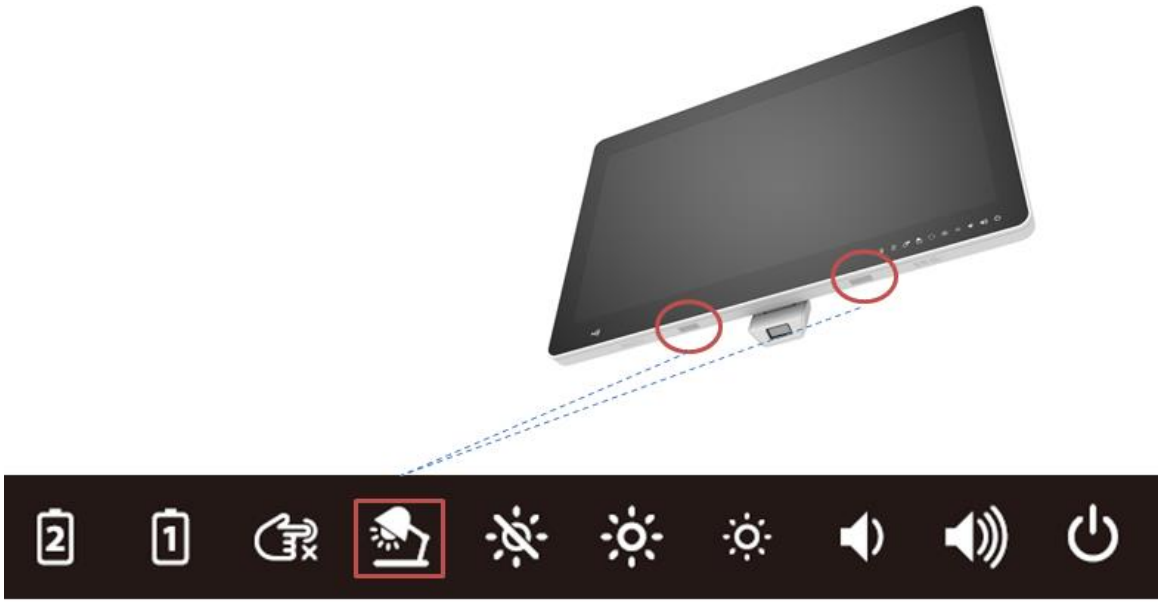
■ Brightness Control

User Behavior	Brightness Status
Short press brightness up icon	Brightness level being turned up
Short press brightness down icon	Brightness level being turned down

■ Backlight On / Backlight Off

User Behavior	Backlight & Touchscreen Status
Long press backlight icon for 3 seconds when backlight is on	Backlight is turned off. Touchscreen is locked simultaneously. Touchscreen icon shows solid blue light.
Long press backlight icon for 3 seconds when backlight is off	Backlight is turned on. Brightness level automatically return to the value before backlight was off. Touchscreen remains locked.
Long press touchscreen icon 3 seconds when backlight is off	Touchscreen is unlocked. Backlight is turned on simultaneously. Brightness level automatically return to the value before backlight was off.

■ Reading Light



User Behavior	Reading Lights Status
Short press reading light icon	Reading lights are on at the bottom of the terminal
Short pressed reading light icon again	Reading lights are off at the bottom of the terminal

■ Locking/ Unlocking Touchscreen

Icon Behavior	Indication
Touchscreen icon shows solid blue light	Touchscreen is locked after 3 seconds long press. To unlock, press touch icon for another 3 seconds.
Touchscreen icon shows no light	Touchscreen is functional.