

# OFT-07WR1

7" Open Frame Tablet

## Quick Reference Guide

3<sup>rd</sup> Ed – 22 December 2021

### Copyright Notice

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## **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 UNDESIRE OPERATION.**

**Note: This equipment has been tested and found to comply with the limits for a Class A 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 be 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 – This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures”**

**“CAUTION –Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.”**

**“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.”**

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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 OFT-07WR1 Open Frame Tablet
- Power cord / Power adapter (Optional)
- 1 x Screw M3-4mm, 1 x ziplock bag No.00 40 x 60mm



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

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## 1.3 System Specifications

Board Specification	
<b>Mother Board</b>	ACP-RK3288
<b>CPU</b>	RockChip RK3288
<b>CPU Cooler (Type)</b>	By mechanical design
<b>Memory</b>	2GB DDR3L
<b>Storage</b>	16GB eMMC
<b>Power Supply</b>	DC in 12V~24V Optional POE (802.3AT)
<b>Adapter</b>	60W, 12V power adaptor Optional POE (802.3AT)
<b>Speaker</b>	1 x Speaker interface
<b>Microphone</b>	1 x A-MIC interface
<b>Camera</b>	2 x 5p USB Camera
<b>Sensor</b>	1x I2C interface
<b>Operating System</b>	Android 8.1
<b>Wifi / BT</b>	1 x AzureWave AW-NB177NF Wireless 802.11b/g/n WLAN+BT Combo Module
Storage	
<b>eMMC</b>	16 GB
Panel & Touch	
<b>LCD Panel</b>	7" 800 x 1280
<b>Touch Screen</b>	7" Sense ST-070C21A-AF
<b>Touch Controller</b>	EETI
<b>Resolution</b>	800 x 1280
<b>Luminance</b>	350nits
Internal I/O Connectors	
<b>USB OTG</b>	Micro USB x 1
<b>USB</b>	JCAM1 5P x 2, pitch 2.0mm
<b>USB Touch</b>	JUTP1 5P x 1, pitch 2.0mm
<b>Micro SD</b>	Micro SD x 1
<b>M.2 Socket</b>	M.2 B-Key (3042) x 1
<b>Touch Button</b>	JTB1 6P x 2, pitch 2.0mm
<b>DC in 2</b>	4P x 1 (12 ~ 24V), pitch 2.0mm
<b>Battery 2</b>	7P x 1, pitch 2.0mm Note: You need a 19v or a 24v power adapter to fully charge the battery. You cannot fully charge the battery with a 12v power adapter.



<b>MIPI 1</b>	31P x1, pitch 0.3mm
<b>Analog MIC</b>	JAMIC1 3P x 1, pitch 2.0mm
<b>Speaker</b>	JSPK1 4P x 1, pitch 2.0mm
<b>sensor</b>	JSEN1 I2C x 2, 5P x 2, pitch 2.0mm
<b>Touch Panel</b>	JITP1 6P x 1, pitch 0.5mm
<b>Console Debug</b>	JDBG1 3P x 1, pitch 2.0mm
<b>RS232</b>	JCOM1 5P x 1, pitch 2.0mm
<b>RS485</b>	JCOM2 5P x 2, pitch 2.0mm
<b>GPIO</b>	JGPIO1 10P x 2, 16bit, pitch 1.0mm
<b>RTC Battery</b>	JBAT1 2P, pitch 1.25mm
<b>External I/O</b>	
<b>DC in Power jack</b>	1 x Power Jack
<b>USB Port</b>	2 x USB Type A Host
<b>Video Port</b>	1 x HDMI
<b>Audio Port</b>	1 x Headphone Jack for Line out
<b>Reset</b>	1 x Reset
<b>Mechanical</b>	
<b>Power Type</b>	12V~24V wide voltage DC input Optional POE (802.3AT)
<b>Power Connector Type</b>	DC jack
<b>Dimension</b>	183.1 x 115.85 x 33.4 (mm)
<b>Weight</b>	450g
<b>Color</b>	Metallic
<b>Fanless</b>	Yes
<b>OS Support</b>	Android 8.1
<b>Reliability</b>	
<b>EMI Test</b>	CE FCC class A
<b>Safety</b>	2006/95/EC LVD EN-60950-1 Low Voltage Directive
<b>Random Vibration Operation</b>	1. PSD: 0.00454G <sup>2</sup> /Hz, 1.5 Grms 2. Operation mode 3. Test Frequency : 5-500Hz 4. Test Axis : X,Y and Z axis 5. 30 minutes per each axis 6. IEC 60068-2-64 Test:Fh 7. Storage : CF or SSD
<b>Sine Vibration test (Non-operation)</b>	1 Test Acceleration : 2G 2 Test frequency : 5~500 Hz

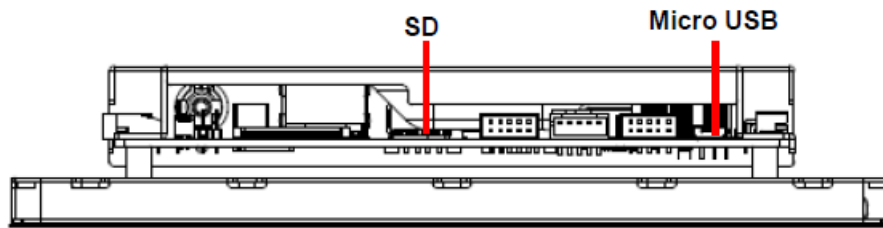
	3 Sweep : 1 Oct/ per one minute. (logarithmic) 4 Test Axis : X,Y and Z axis 5 Test time :30 min. each axis 6 System condition : Non-Operating mode 7. Reference IEC 60068-2-6 Testing procedures
<b>Package vibration test</b>	1. PSD: 0.026G <sup>2</sup> /Hz , 2.16 Grms 2. Non-operation mode 3. Test Frequency : 5-500Hz 4. Test Axis : X,Y and Z axis 5. 30 min. per each axis 6. IEC 60068-2-64 Test:Fh
<b>Shock Test</b>	1. Wave form : Half Sine wave 2. Acceleration Rate : 10g for operation mode 3. Duration Time : 11ms 4. No. of Shock : Z axis 300 times 5. Test Axis: Z axis 6. Operation mode 7. Reference IEC 60068-2-29 Testing procedures Test Eb : Bump Test
<b>Package drop test</b>	1 One corner , three edges, six faces 2 ISTA 2A, IEC-60068-2-32 Test:Ed
<b>Operating Temperature</b>	0°C ~ 40°C
<b>Operating Humidity</b>	40°C @ 95% Relative Humidity, Non-condensing
<b>Storage Temperature</b>	-20°C ~ 60°C



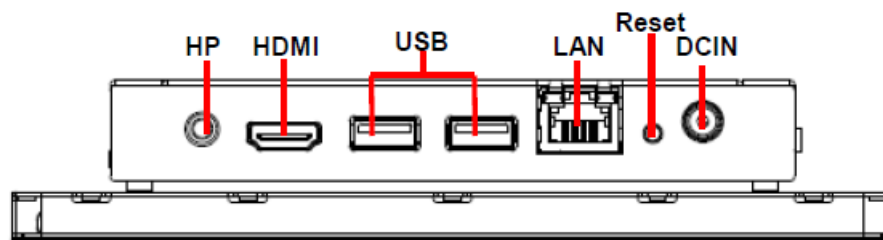
**Note:** Specifications are subject to change without notice.

## 1.4 System Overview

### 1.4.1 Top View



### 1.4.2 Bottom View

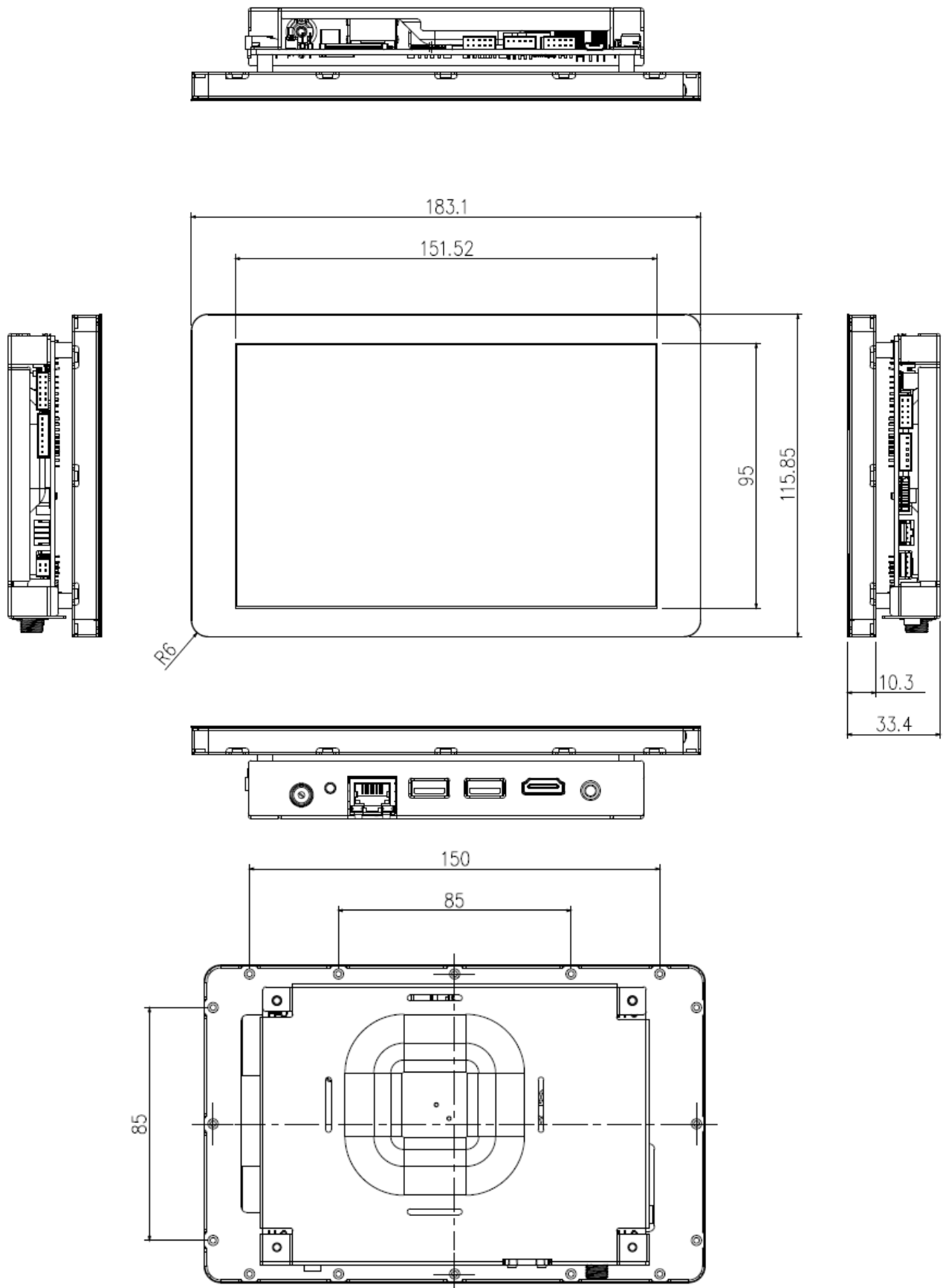


### Connectors

Label	Function	Note
<b>SD</b>	Micro SD card slot	
<b>Micro USB</b>	Micro USB connector	
<b>HP</b>	Audio line-out connector	
<b>HDMI</b>	HDMI connector	
<b>USB</b>	2 x USB 2.0 connector	
<b>LAN</b>	RJ-45 Ethernet	
<b>Reset</b>	Reset button	
<b>DCIN</b>	DC power-in connector	

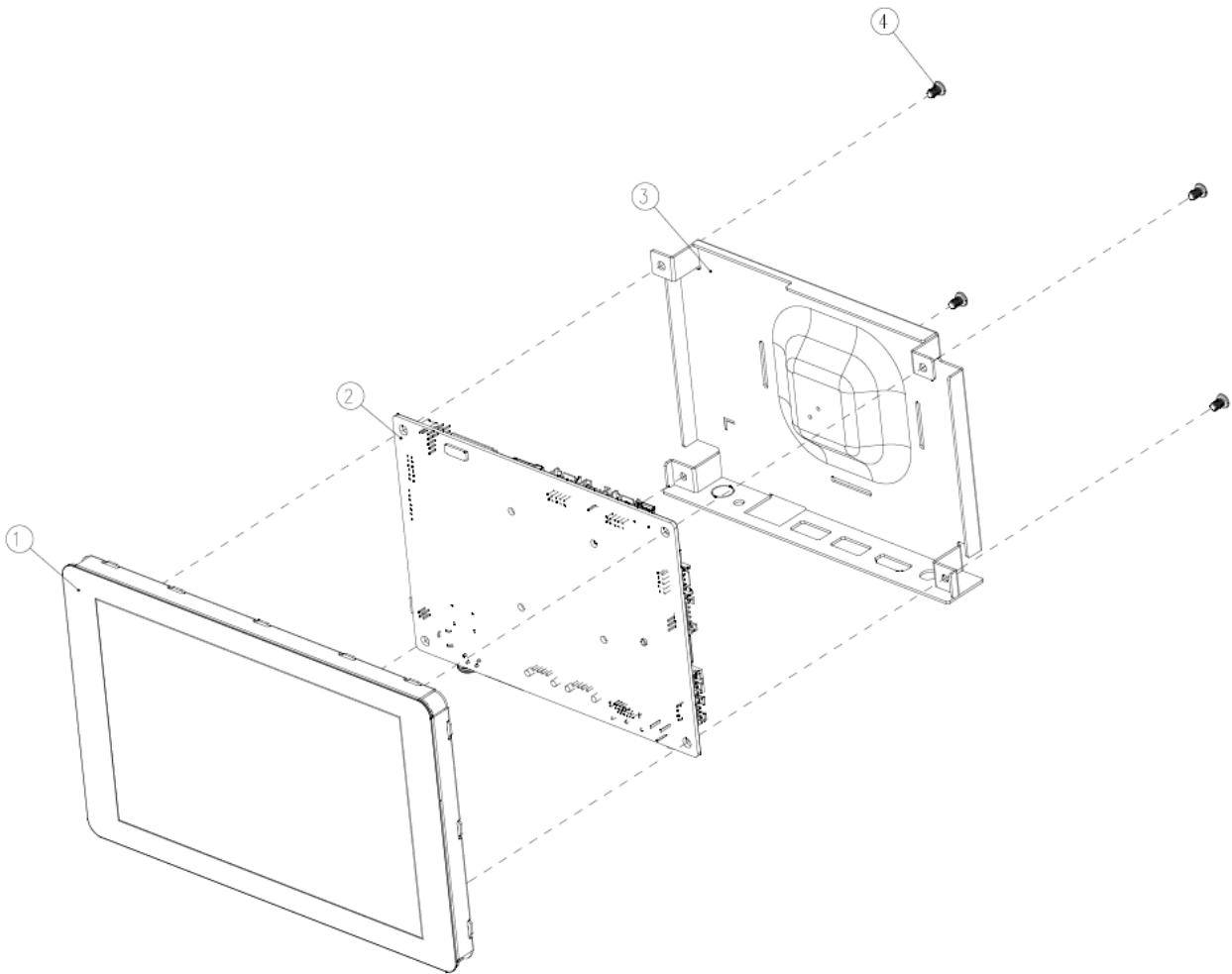
## 1.5 System Dimensions

### 1.5.1 Front and Rear side



(Unit: mm)

### 1.5.2 Installing Extend Brackets

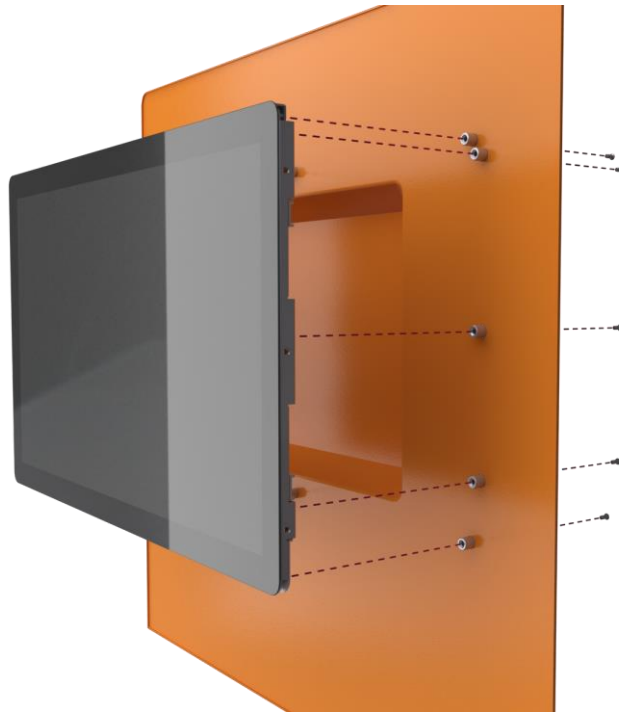


**Step1.** Locate brackets on both sides, matching the holes on the monitor.

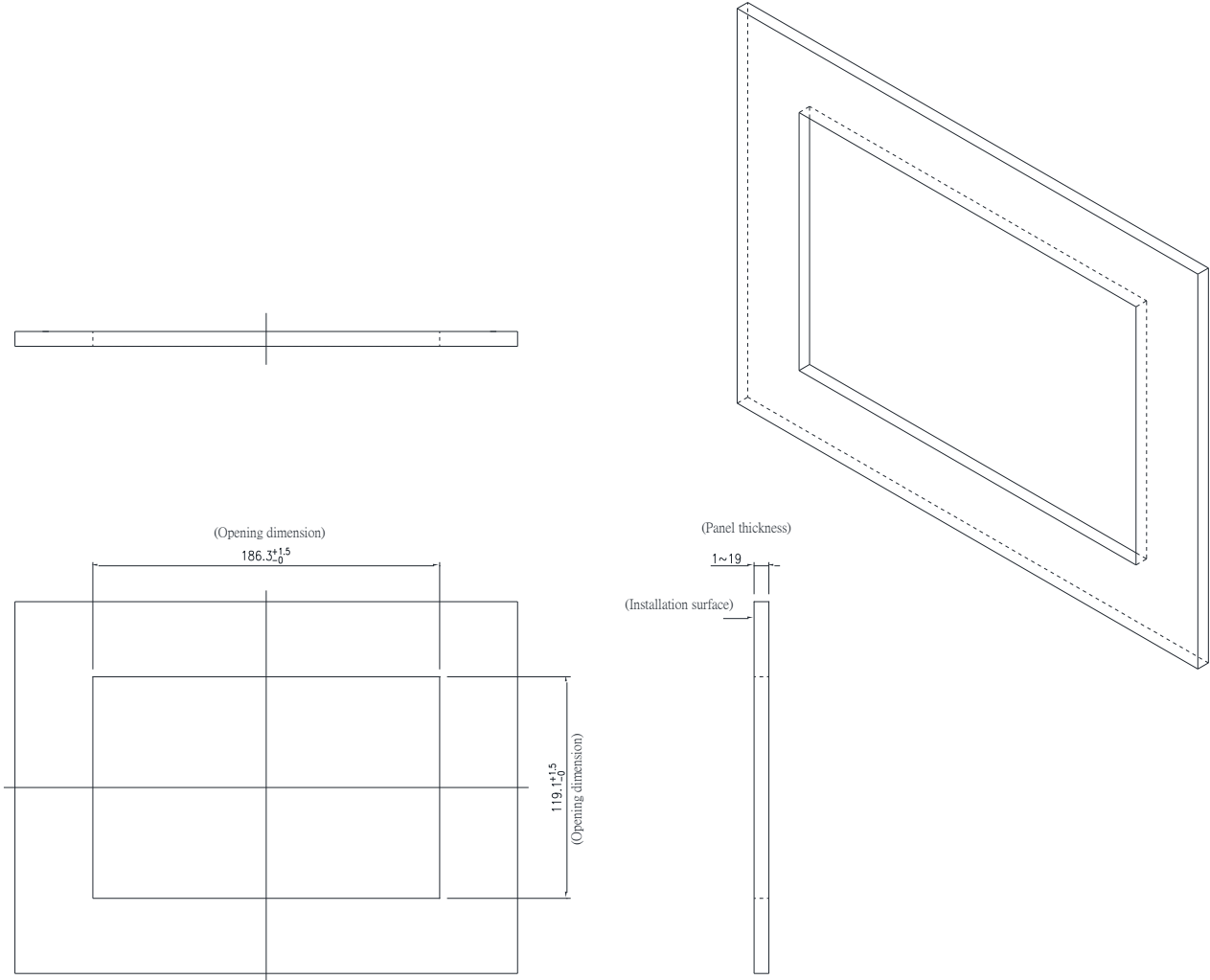
**Step2.** Insert and fasten 4 screws on each side of the monitor to secure Mounting brackets.

**Note:** Brackets sold separately.

## 1.6 Flush Mounting Concept

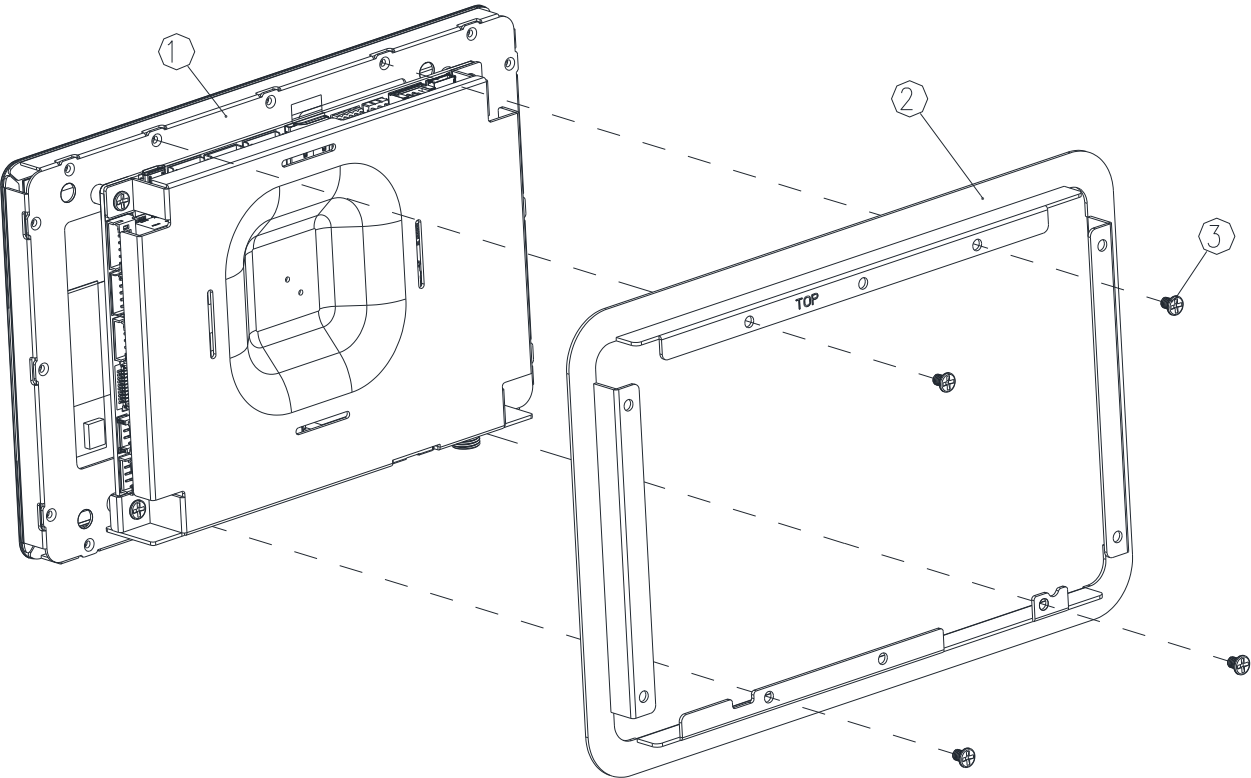


1.7 Panel Mounting



(Unit: mm)

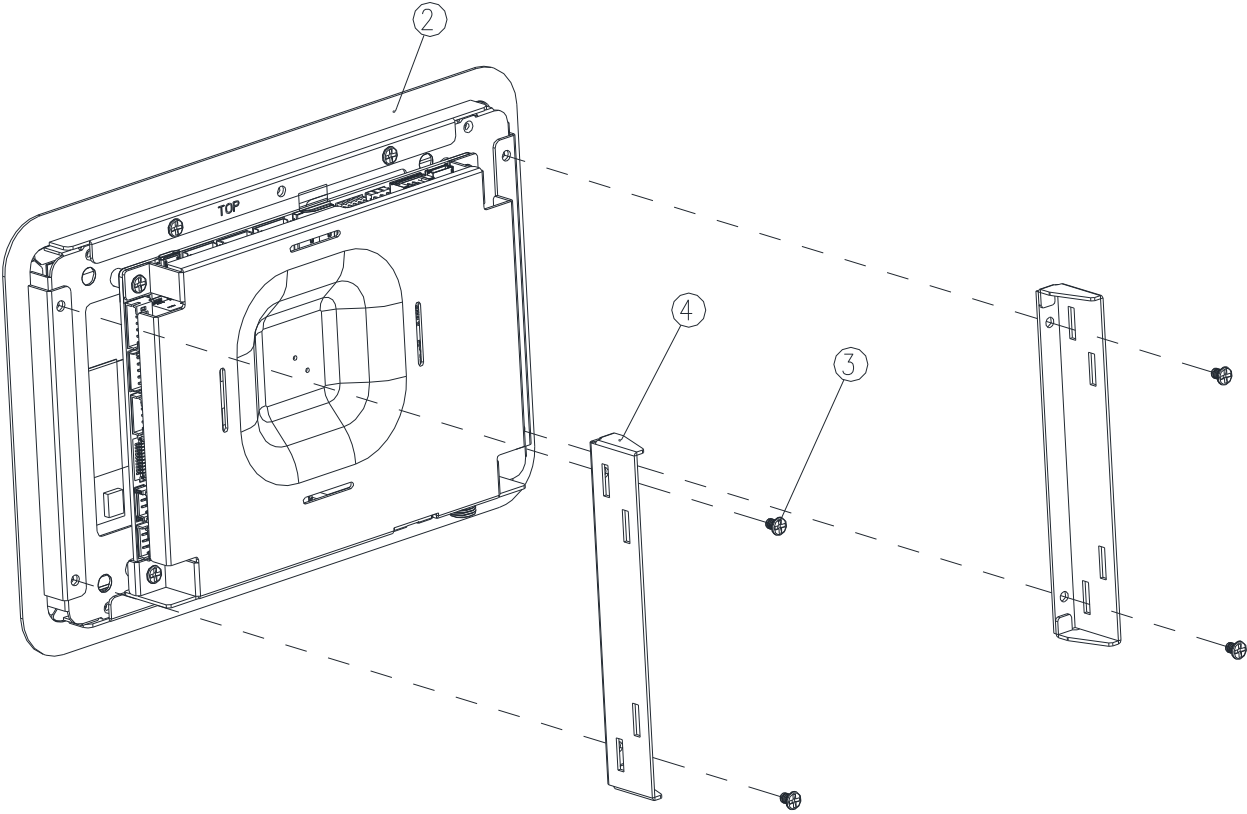
OFT-07WR1



**Step2.** Insert and fasten 4 screws on each side of the monitor to secure Front bracket.

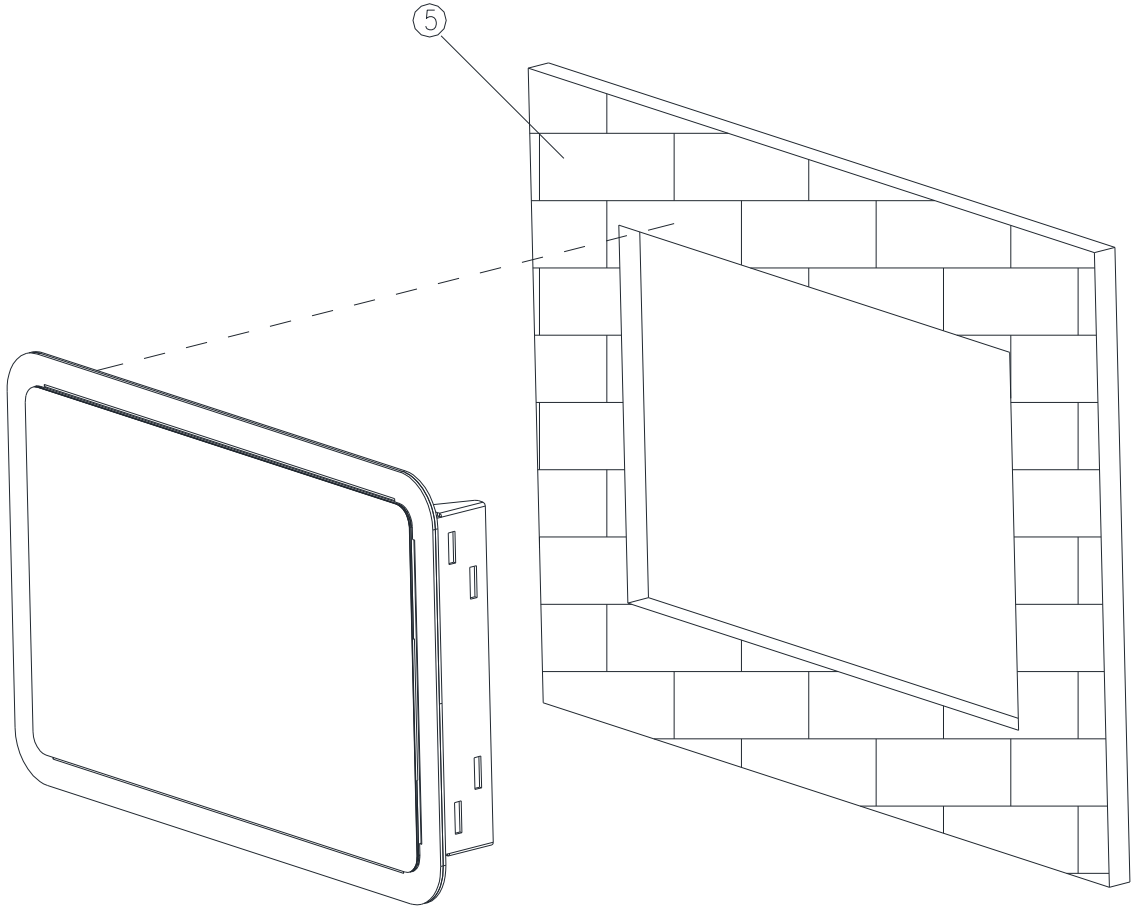
3	Screw	4
2	Front Bracket	1
1	OFT-07WR1	1
Item	Part Name	Quantity





**Step3.** Insert and fasten 4 screws to secure Bracket R/L.

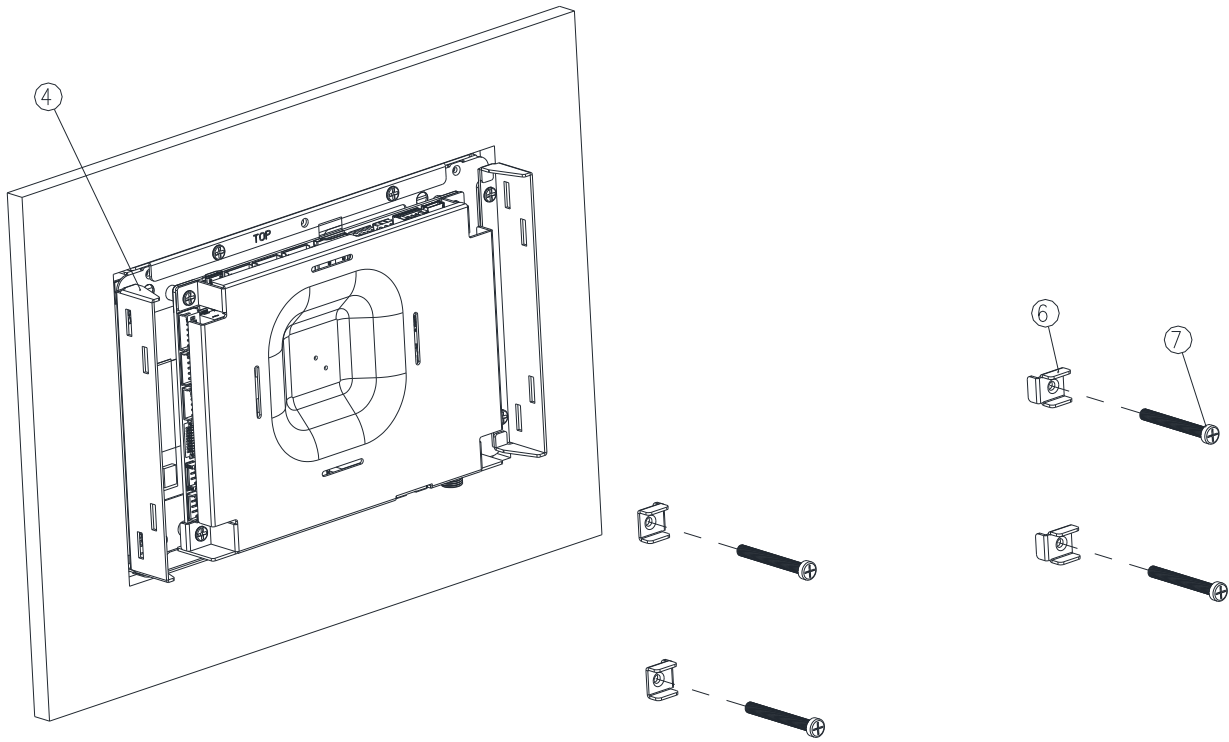
4	Bracket R/L	2
3	Screw	4
2	Front Bracket	1
Item	Part Name	Quantity



(Outside of the wall)

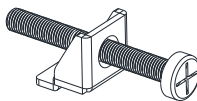
**Step4.** Insert OFT-07WR1 Open frame into the wall.

5	Wall	1
Item	Part Name	Quantity



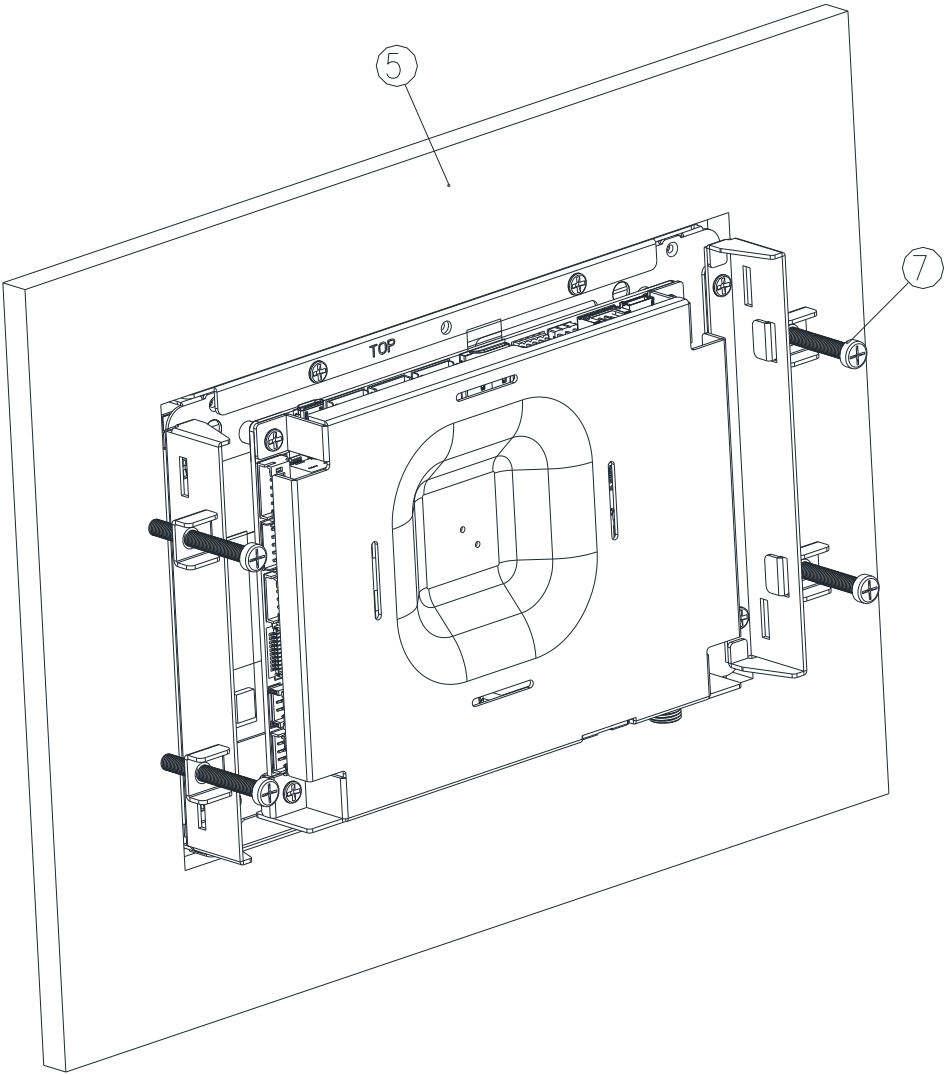
(Inside of the wall)

**Step5.** Fasten 4 screws to secure Panel mount brackets and insert it into Bracket R/L.



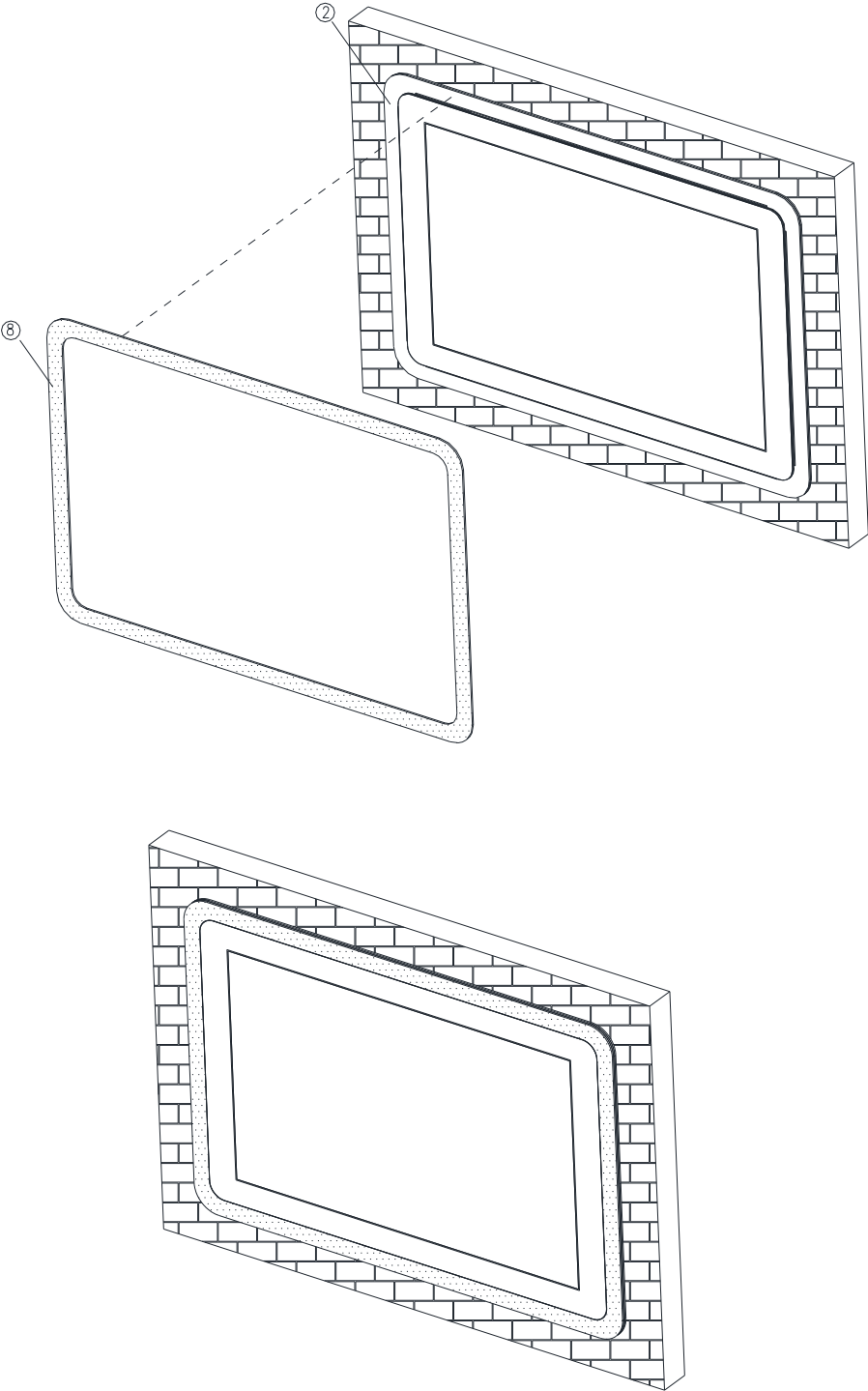
4-1

7	Panel mount Screw	4
6	Panel mount Bracket	4
4	Bracket R/L	2
Item	Part Name	Quantity



**Step6.** Insert and fasten 4 Panel mount screws to secure the module.

7	Panel mount Screw	4
5	Wall	1
Item	Part Name	Quantity



**Step7.** Paste the Decoration Plate on the Front bracket to complete installation.

8	Decoration Plate	1
2	Front Bracket	1
Item	Part Name	Quantity

## 2. Hardware Configuration

For advanced information, please refer to:

- 1- ACP-RK3288 included in this manual.

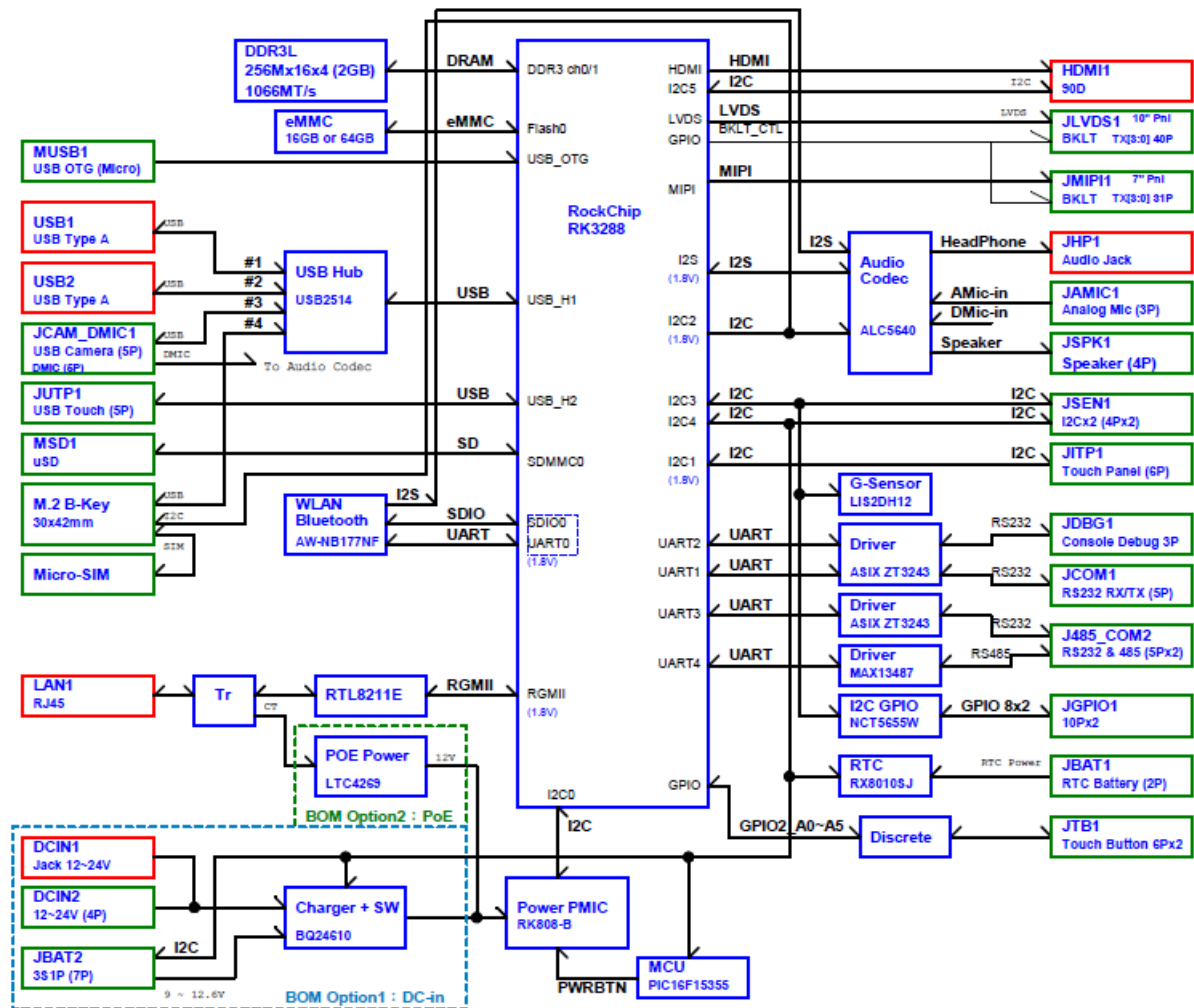


**Note:** If you need more information, please visit our website:

<http://www.avalue.com.tw>

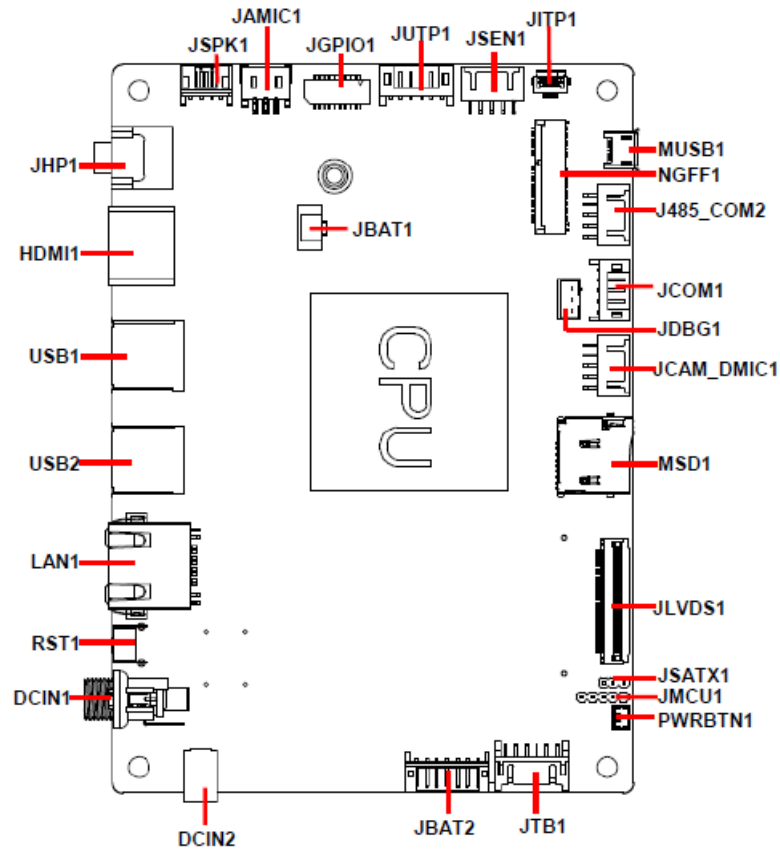
## 2.1 Architecture Overview—Block Diagram

The following block diagram shows the architecture and main components of ACP-RK3288.

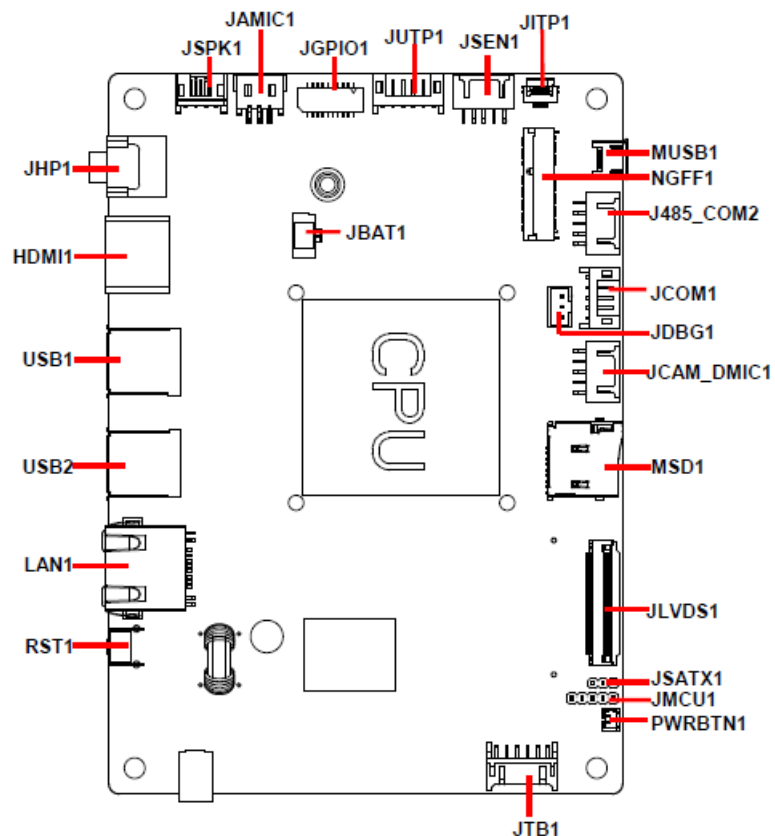


## 2.2 ACP-RK3288 Overviews

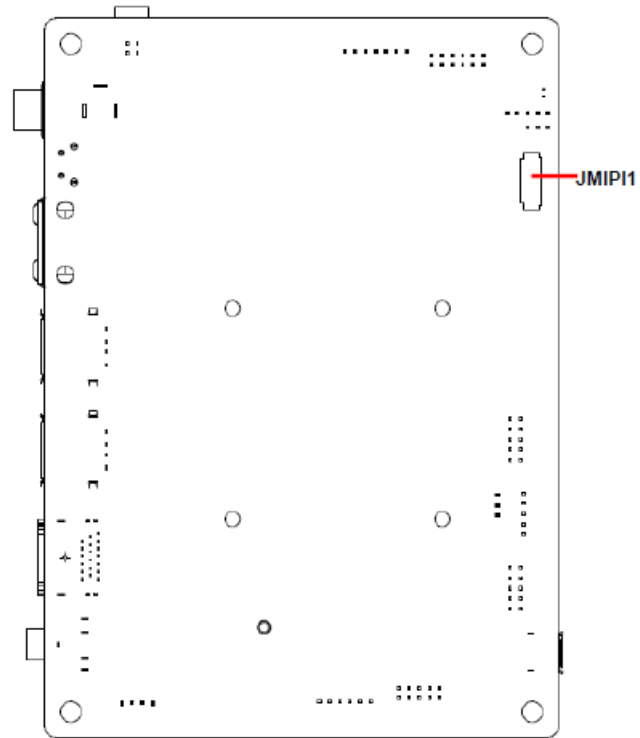
### ACP-RK3288 (DCIN)



### ACP-RK3288 (Powered LAN)







## 2.3 ACP-RK3288 Connector list

### Jumpers

Label	Function	Note
JSATX1	AT/ATX Input power select	3 x 1 header, pitch 2.00 mm

### Connectors

Label	Function	Note
JHP1	Audio line-out connector	
HDMI1	HDMI connector	
USB1/2	2 x USB 2.0 connector	
LAN1	RJ-45 Ethernet connector	
DCIN1	DC Power-in connector	
DCIN2	DC Power-in connector	2 x 2 wafer, pitch 2.00 mm
JITP1	I2C Touch Panel connector	6 x 1 FPC, pitch 0.50 mm
JSPK1	Speaker connector	4 x 1 wafer, pitch 2.00 mm
JUTP1	USB Touch connector	6 x 1 wafer, pitch 2.00 mm
RST1	Reset Button	
NGFF1	M.2 B-Key	
JMCU1	MCU Firmware upgrade connector	5 x 1 header, pitch 2.00 mm
PWRBTN1	Power Button	2 x 1 wafer, pitch 1.25 mm
MSD1	Micro SD card slot	
JBAT1	RTC Battery connector	2 x 1 wafer, pitch 1.25 mm
JBAT2	Battery connector	7 x 1 wafer, pitch 2.00 mm
JSEN1	I2C connector	5 x 2 wafer, pitch 2.00 mm
MUSB1	Micro USB2.0 connector	
JGPIO1	General purpose I/O connector	10 x 2 wafer, pitch 1.00 mm
JCAM_DMIC1	USB Camera connector	5 x 2 wafer, pitch 2.00 mm
JCOM1	Serial port 1 connector	5 x 1 wafer, pitch 2.00 mm
J485_COM2	RS-485 connector	5 x 2 wafer, pitch 2.00 mm
JTB1	Touch button board connector	6 x 2 wafer, pitch 2.00 mm
JAMIC1	A-MIC connector	3 x 1 wafer, pitch 2.00 mm
JDBG1	Debug connector	3 x 1 wafer, pitch 2.00 mm
JLVDS1	LVDS connector	40 x 1 FPC, pitch 0.50 mm
JMIPI1	MIPI Port	31 x 1 FPC, pitch 0.30 mm

## 2.4 Ethernet LED behavior

### LAN LED indicator definition

Number	Label	LED color	Indication	Meaning
1	Data Rate	Green/Orange	Off	10 Mbits/sec data rate is selected
			Green on	100 Mbits/sec data rate is selected
			Orange on	1000 Mbits/sec data rate is selected
2	Link/ACT	Yellow	Off	LAN link is not established
			Yellow on	LAN link is established
			Yellow Blinking	LAN active is occurring

## 2.5 Evaluation Cable Kit (Optional)

Part Number: BCC-OFT-CABLE-02R

### Cable List

Cable Function	Spec. Description	Q'ty
RS-232	RS-232 Cable DB-9(M)- 5P/2.0 20cm	1
Debug	Debug cable DB-9(M)-3P/2.0 15cm	1
RS232/RS485	RS232/ RS-485 Cable DB-9(M)- 2x5P/2.0 28cm	1
Switch	Switch/2P/1.25 15cm	1
DC In	Power cable DC JACK4P/2.0 15cm	1
USB Camera/D-MIC	USB Cable 2x5P/2.0 to 8P/0.8 10cm	1
Speaker	2P 4ohm 3W 28*28*13.6 16cm	1
MIC	2P/2.0 , 42db 10cm	1
Keypad	2x6P/2.0	1

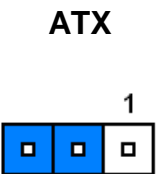
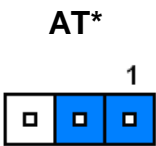
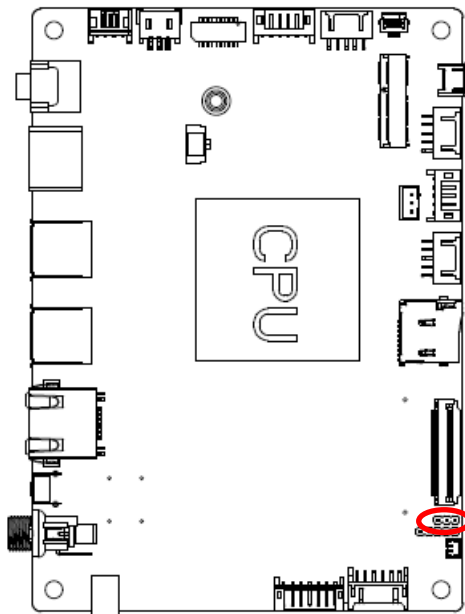
### \*RTC Battery

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

Attention: Risque d'explosion si la batterie est remplacée par un type incorrect. Jetez les piles usagées selon les instructions.

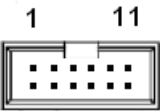
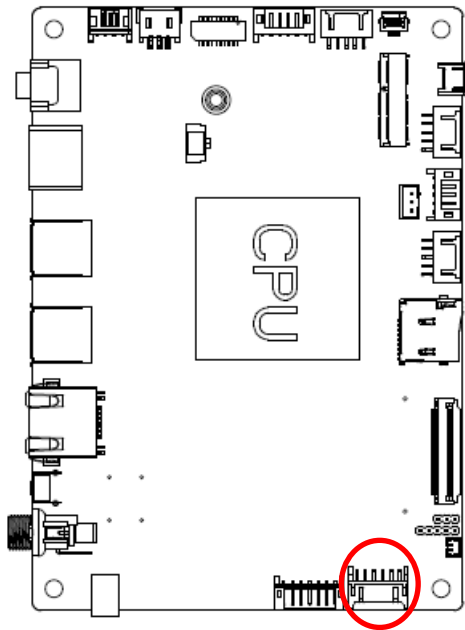
2.6 ACP-RK3288 Jumpers & Connectors settings

2.6.1 AT/ATX Input power select (JSATX1)



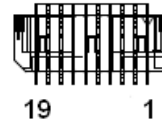
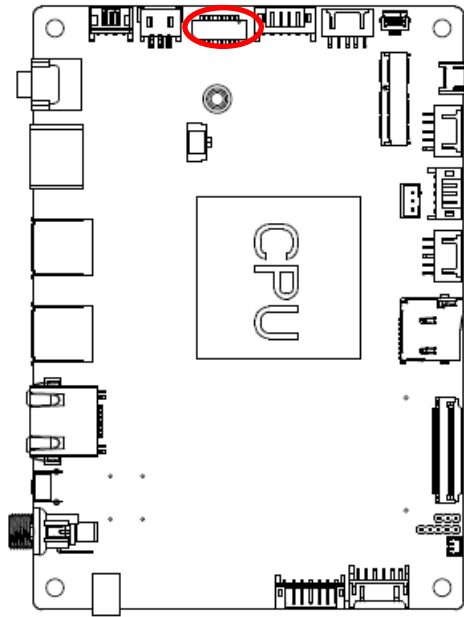
\* Default

2.6.2 Touch button board connector (JTB1)



Signal	PIN	PIN	Signal
PWR_TB	1	2	GND
LINUX-SW	3	4	BU1
VOL_UP	5	6	VOL_DN
ONOFF	7	8	BR_UP
BR_DN	9	10	BU7
LED_GRN	11	12	LED_ORG

### 2.6.3 General purpose I/O connector (JGPIO1)

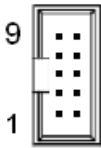
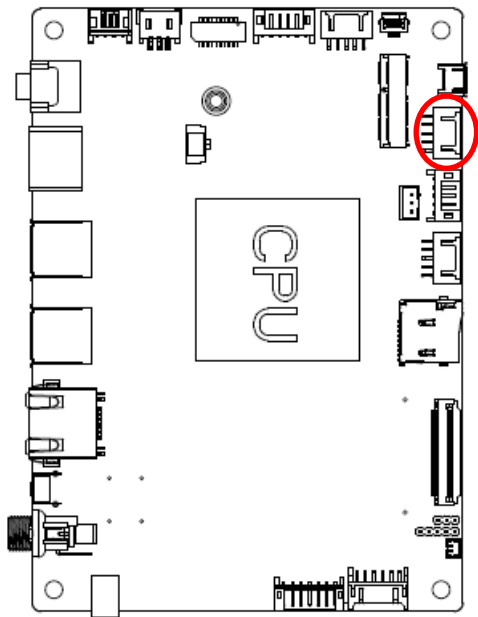


Signal	PIN	PIN	Signal
DIO_GP20	1	2	DIO_GP10
DIO_GP21	3	4	DIO_GP11
DIO_GP22	5	6	DIO_GP12
DIO_GP23	7	8	DIO_GP13
DIO_GP24	9	10	DIO_GP14
DIO_GP25	11	12	DIO_GP15
DIO_GP26	13	14	DIO_GP16
DIO_GP27	15	16	DIO_GP17
DIO_SDA_5V	17	18	DIO_SCL_5V
+V5S_DIOP	19	20	GND

#### \*GPIO number to PIN table

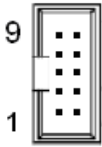
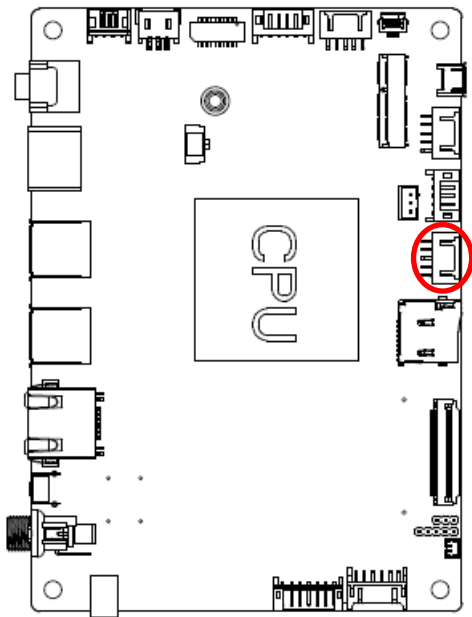
Kernel No.	JGPIO1 Name	Pin No.	Pin No.	JGPIO1 Name	Kernel No.
gpio-280	DIO_GP20	1	2	DIO_GP10	gpio-272
gpio-281	DIO_GP21	3	4	DIO_GP11	gpio-273
gpio-282	DIO_GP22	5	6	DIO_GP12	gpio-274
gpio-283	DIO_GP23	7	8	DIO_GP13	gpio-275
gpio-284	DIO_GP24	9	10	DIO_GP14	gpio-276
gpio-285	DIO_GP25	11	12	DIO_GP15	gpio-277
gpio-286	DIO_GP26	13	14	DIO_GP16	gpio-278
gpio-287	DIO_GP27	15	16	DIO_GP17	gpio-279

2.6.4 RS-485 connector (J485\_COM2)



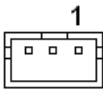
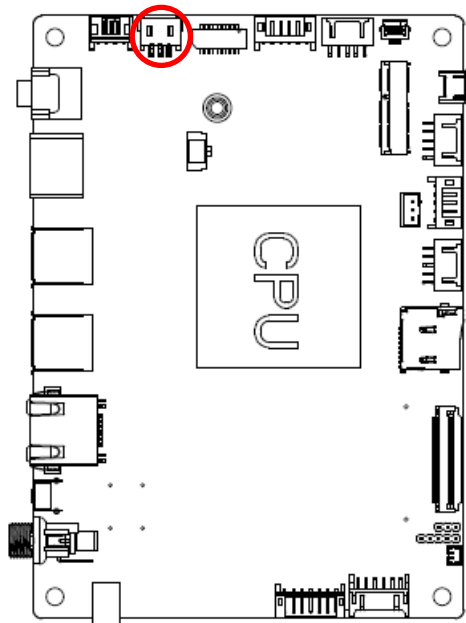
Signal	PIN	PIN	Signal
COM2_TX	1	2	+5V
COM2_RX	3	4	NC
COM2_RTS	5	6	485TX1-
COM2_CTS	7	8	485TX1+
GND	9	10	GND

2.6.5 USB Camera connector (JCAM\_DMIC1)



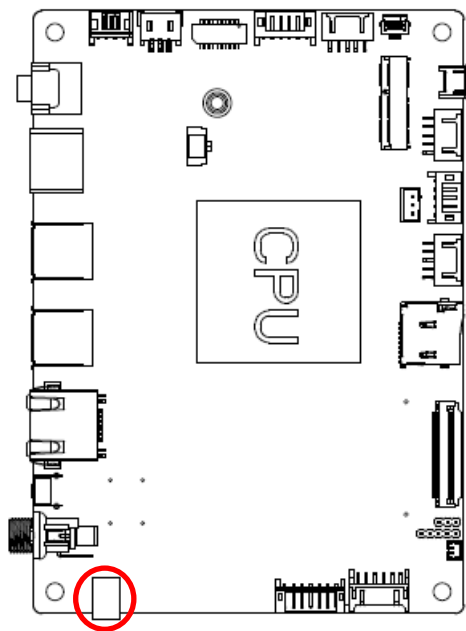
Signal	PIN	PIN	Signal
+VDD_DMIC	1	2	+5V
DMIC_CLK	3	4	USB3_NP
DMIC_DATA	5	6	USB3_PP
GND	7	8	GND
GND	9	10	GND

2.6.6 A-MIC connector (JAMIC1)



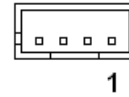
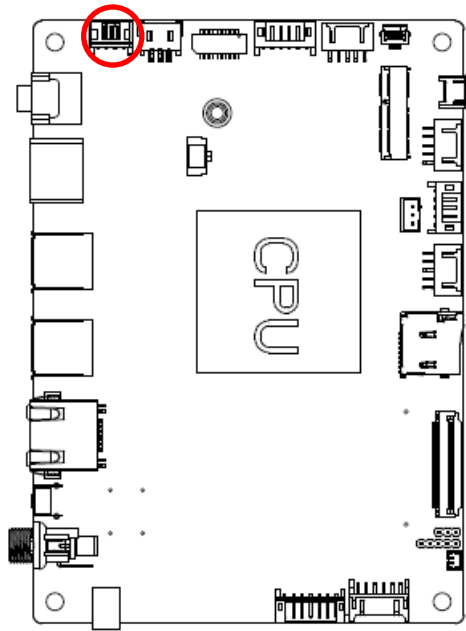
Signal	PIN
MIC_JDET#	1
MIC_INR	2
GND	3

2.6.7 DC Power-in connector (DCIN2)



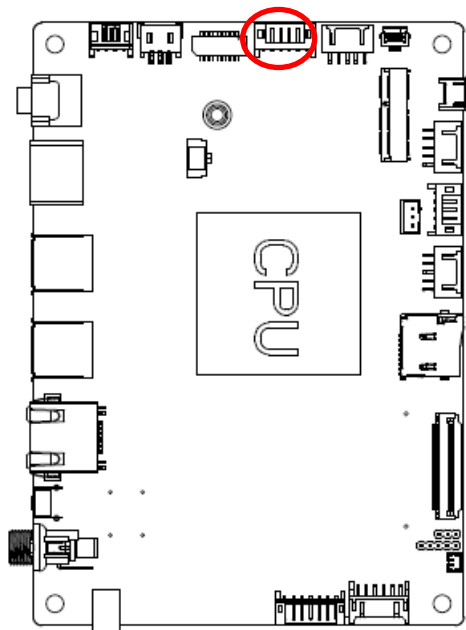
Signal	PIN	PIN	Signal
+VIN	3	4	GND
+VIN	1	2	GND

2.6.8 Speaker connector (JSPK1)



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

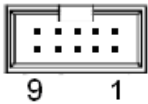
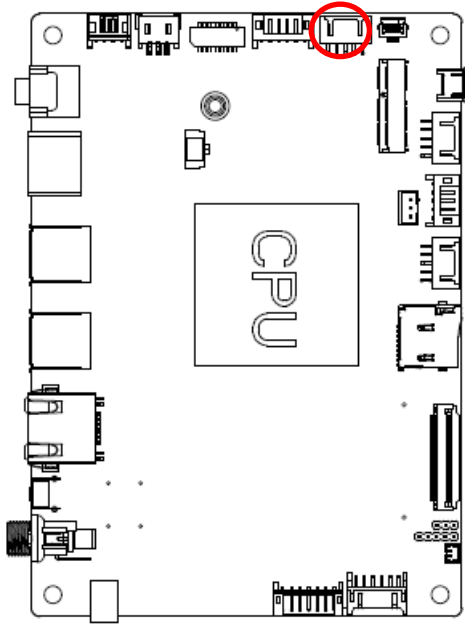
2.6.9 USB Touch connector (JUTP1)



Signal	PIN
+5V	1
USBTP_PP	2
USBTP_NP	3
NC	4
USB_RST_P	5
GND	6

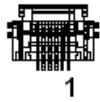
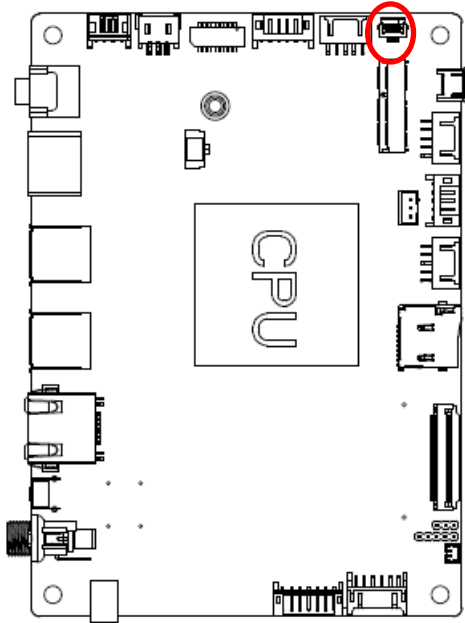


2.6.10 I2C connector (JSEN1)



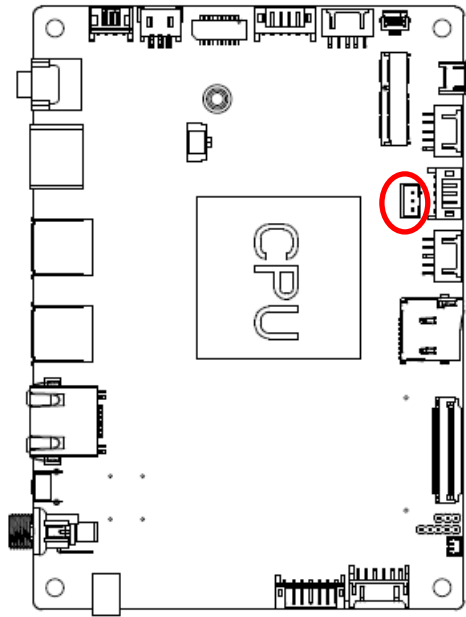
Signal	PIN	PIN	Signal
+3.3V	1	2	+3.3V
SEN1_SCL	3	4	SEN2_SCL
SEN1_SDA	5	6	SEN2_SDA
SEN1_IRQP#	7	8	SEN2_IRQP#
GND	9	10	GND

2.6.11 I2C Touch Panel connector (JITP1)



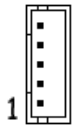
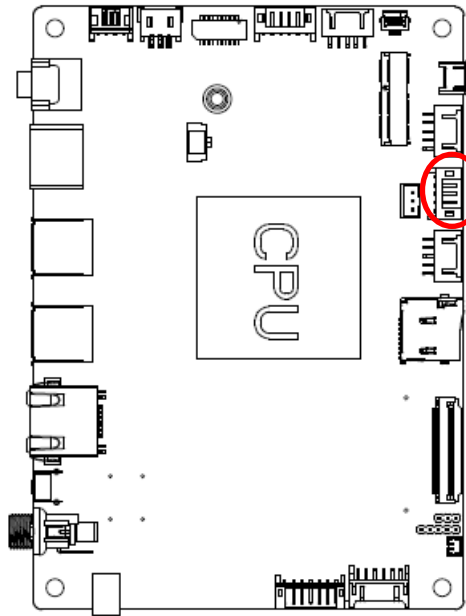
Signal	PIN
TOUCH_RST#_R	6
TOUCH_SDA	5
TOUCH_SCL	4
TOUCH_IRQP#	3
GND	2
+3.3V	1

2.6.12 Debug connector (JDBG1)



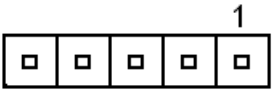
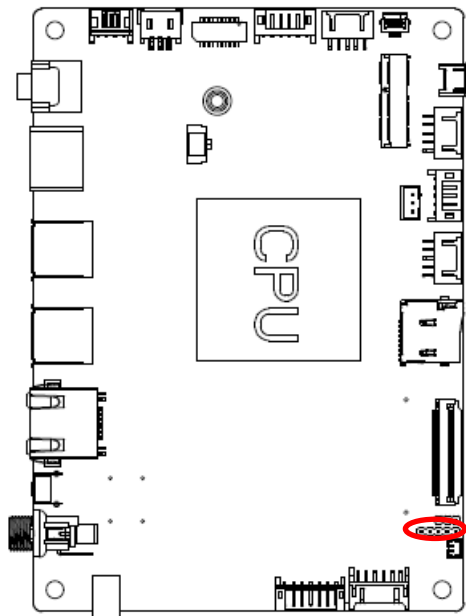
Signal	PIN
CNSL_TX	1
CNSL_RX	2
GND	3

2.6.13 Serial port 1 connector (JCOM1)



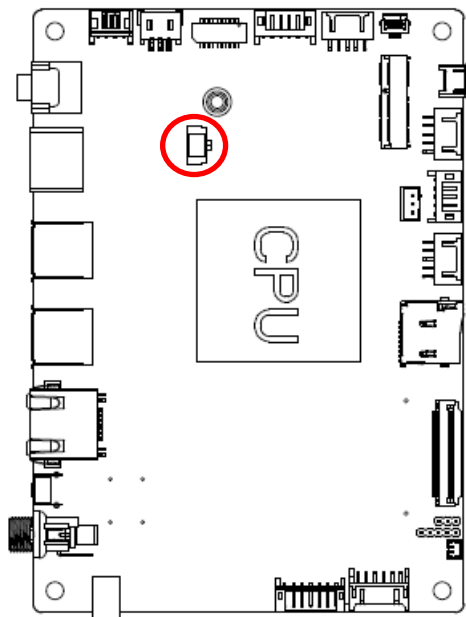
Signal	PIN
GND	5
COM1_CTS	4
COM1_RTS	3
COM1_RX	2
COM1_TX	1

2.6.14 MCU Firmware upgrade connector (JMCU1)



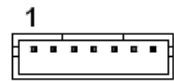
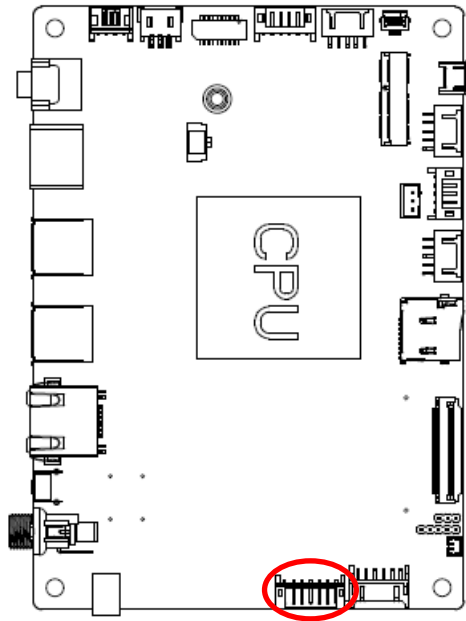
Signal	PIN
+V5MCU	1
MCU_MCLR	2
MCU_ICSPCLK	3
MCU_ICSPDAT	4
GND	5

2.6.15 RTC Battery connector (JBAT1)



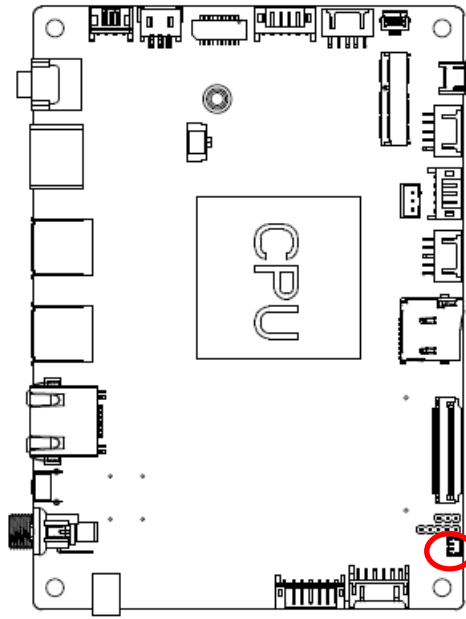
Signal	PIN
+V_BAT	1
GND	2

2.6.16 Battery connector (JBAT2)



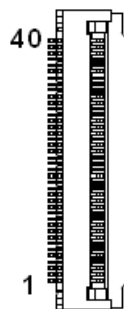
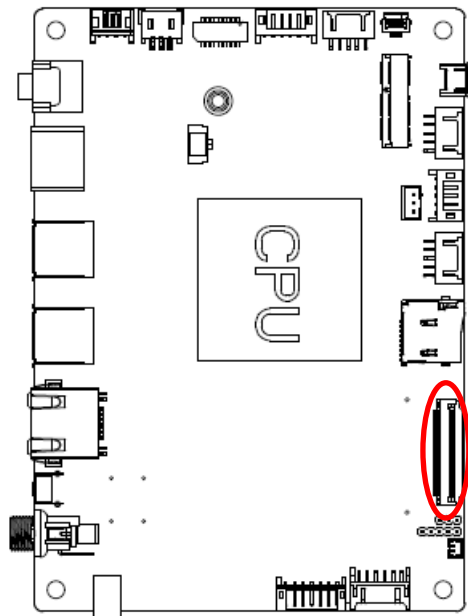
Signal	PIN
+V_BATP	1
+V_BATP	2
BAT_SCL	3
BAT_SDA	4
BAT_TS	5
GND	6
GND	7

2.6.18 Power Button (PWRBTN1)



Signal	PIN
PMIC_PWRON#	1
GND	2

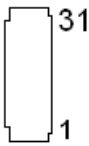
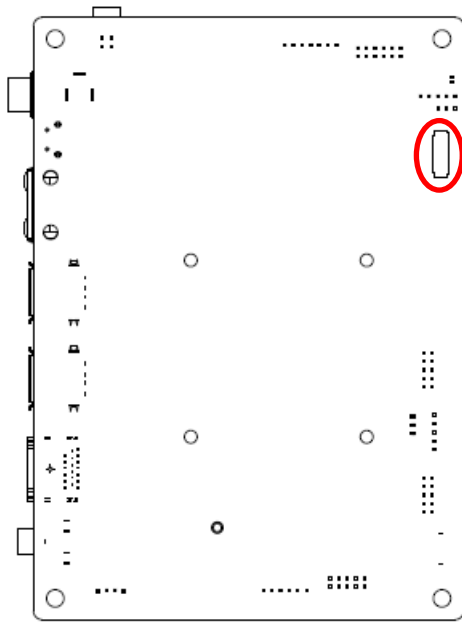
2.6.17 LVDS connector (JLVDS1)



Signal	PIN
NC	40
+3.3V	39
+3.3V	38
NC	37
NC	36
NC	35
NC	34
LVDS0_TX0_N	33
LVDS0_TX0_P	32
GND	31

Signal	PIN
LVDS0_TX1_N	30
LVDS0_TX1_P	29
GND	28
LVDS0_TX2_N	27
LVDS0_TX2_P	26
GND	25
LVDS0_CLK_N	24
LVDS0_CLK_P	23
GND	22
LVDS0_TX3_N	21
LVDS0_TX3_P	20
GND	19
NC	18
NC	17
GND	16
NC	15
NC	14
GND	13
NC	12
NC	11
GND	10
GND	9
GND	8
NC	7
BKLT_CTL	6
BKLT_EN	5
NC	4
+V7S_BKLT	3
+V7S_BKLT	2
+V7S_BKLT	1

2.6.19 MIPI Port (JMIPI1)



Signal	PIN
+VLED+	31
+VLED+	30
NC	29
+VLED-	28
+VLED-	27
+VLED-	26
NC	25
GND	24
MIPI_TX3_N	23
MIPI_TX0_N	22
MIPI_TX3_P	21

Signal	PIN
MIPI_TX0_P	20
GND	19
GND	18
MIPI_CLK_N	17
MIPI_TX1_N	16
MIPI_CLK_P	15
MIPI_TX1_P	14
GND	13
GND	12
MIPI_TX2_N	11
NC	10
MIPI_TX2_P	9
NC	8
NC	7
MIPI_RST#	6
+1.8V	5
+1.8V	4
+3.3V	3
+3.3V	2
+3.3V	1

