

User's Manual

X-PPC72A-1B-2930

X-PPC72A-1B-1900



Copyrights

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Liability Disclaimer

In no event will the manufacturer be liable for direct, indirect, special, incidental, or consequential damages arising out of the use or inability to use the product or documentation, even if advised of the possibility of such damages.

Regulatory Information

FCC Notices



This equipment has been tested and found to

comply with the limits for a Class A digital device, pursuant to Part 15 of the Federal Communications Commission (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 instructions, 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:

- Increase the separation between the equipment and the 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 or television technician for help.

This device complies with Part 15 (A) 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: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS DEVICE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE DEVICE.

CE Notice



This device complies with **EMC Directive 2004/108/EC** issued by the Commission of the European Community.

CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS

WEEE Notice



The **WEEE** mark applies only to countries within the European Union (EU) and Norway.

This appliance is labeled in accordance with **European Directive 2002/96/EC** concerning **waste electrical and electronic equipment (WEEE)**. The Directive determines the framework for the return and recycling of used appliances as applicable throughout the European Union. This label is applied to various products to indicate that the product is not to be thrown away, but rather reclaimed upon end of life per this Directive.

RoHS Notice



This device is full compliance with EU Directive 2002/95/EC (the RoHS Directive) that restricts the use of the hazardous substances listed below in electrical and electronic equipment.

Safety Statement for Lithium Battery

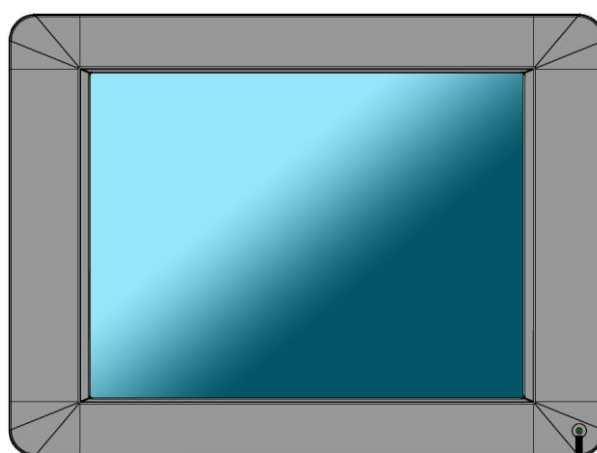
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Hardware Setup

1.1. Quick Tour

Front View and Side View



LED Indicator

LED Indicator

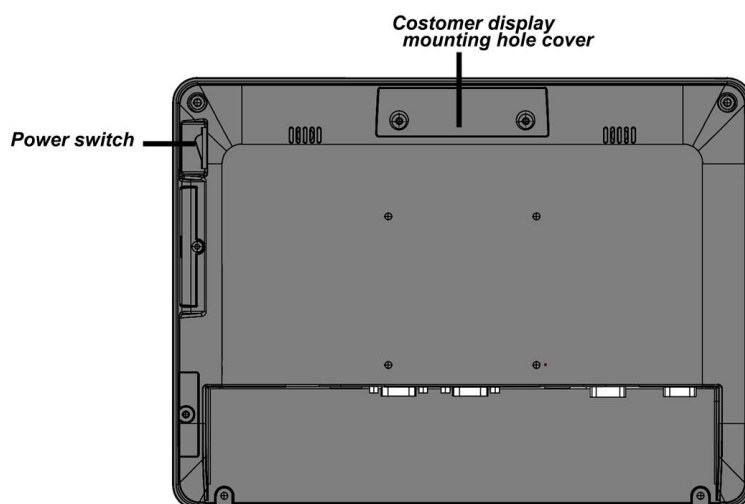
The **Power** indicator will:



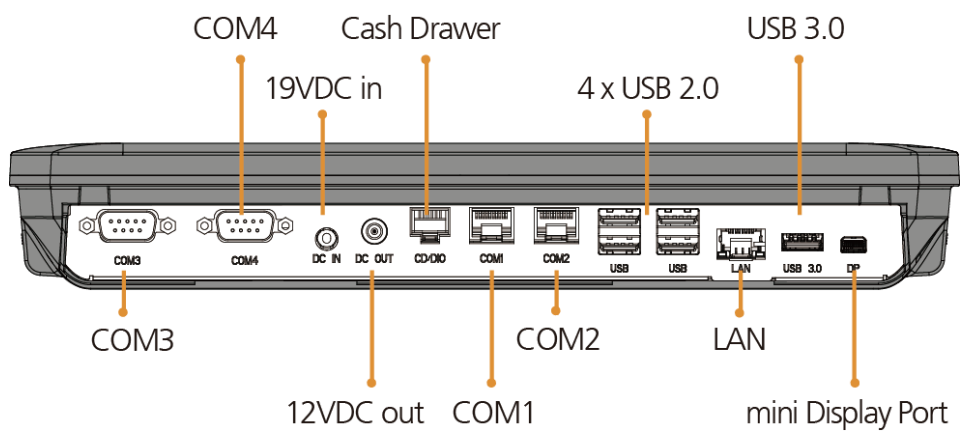
1. glow green when the power is on



2. glow red when the HDD is accessed.

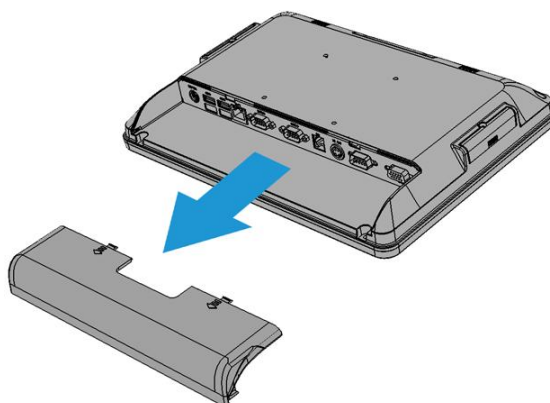


Back Panel I/O



1.2. Basic Peripherals Installation

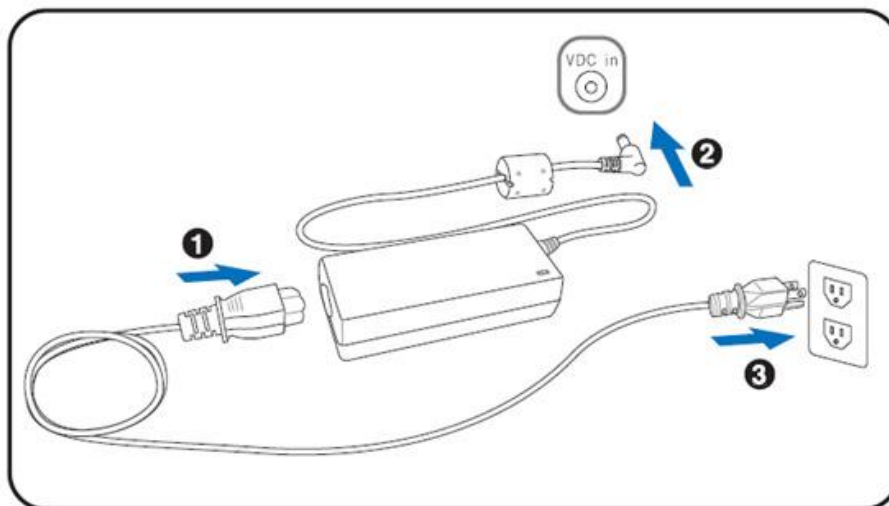
Remove the rear I/O board cover from the device.



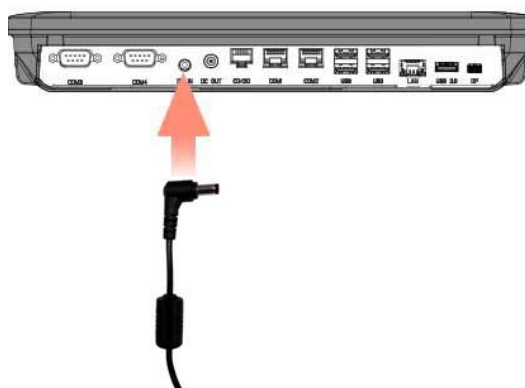
Power Adapter

Important!

Plug the AC adapter into the POS/PPC, and then connect to the mains power supply.

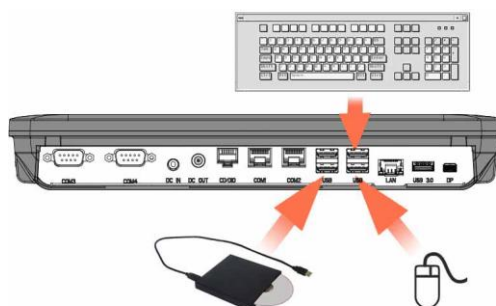


Connect the 4-pin output jack of the adapter to the **DC 19V** jack on the back panel of the device.



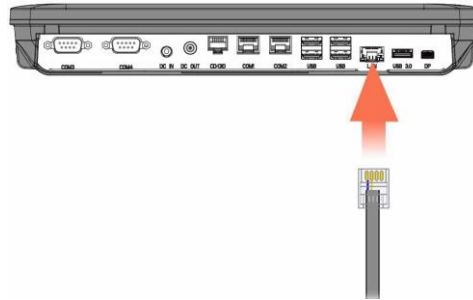
USB Mouse, USB Keyboard and USB ODD

Connect your Mouse and Keyboard to the mouse/keyboard port, and USB ODD to the USB ports on the back panel of the device.



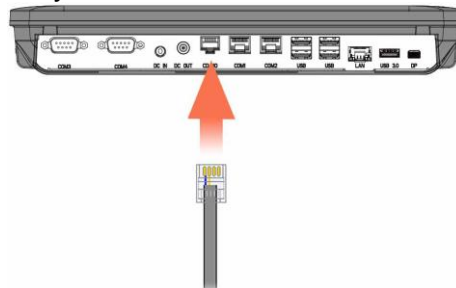
LAN Cable

Connect one end of RJ-45 LAN cable to the **LAN** port on the back panel of the device, another end to your internet device.

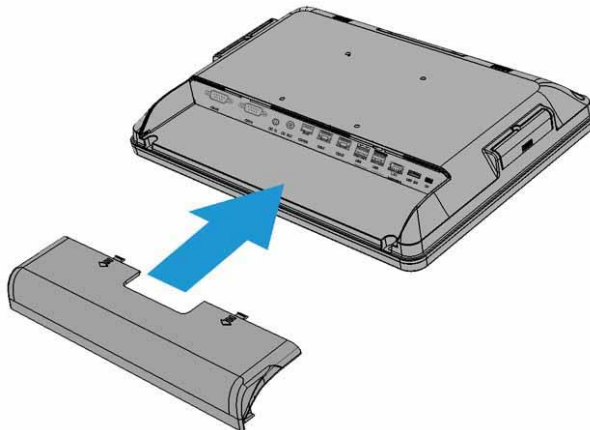


Cash Drawer

Connect one end of RJ-11 cable to the **Cash Drawer** port on the back panel of the device, another end to your cash drawer.



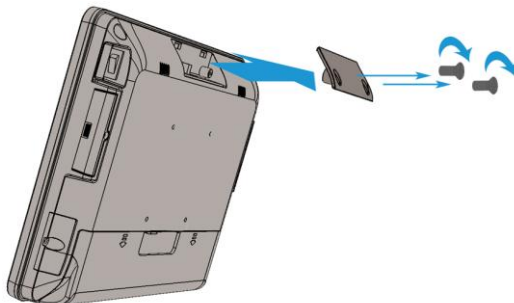
Install the rear I/O board cover onto the device.



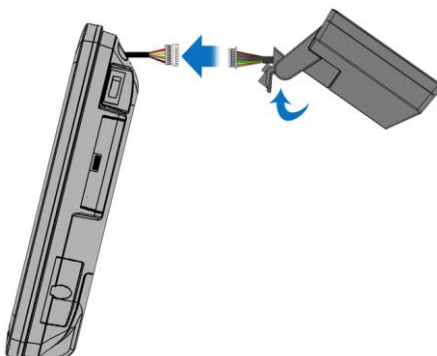
Customer Display

A. Hardware Installation

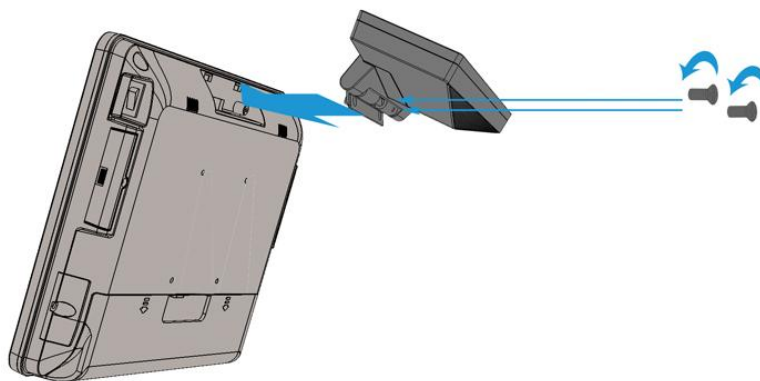
1. Remove the two screws fixing the customer display cover, and then remove the VFD mounting hole cove from the device and pull out the connector from the device.



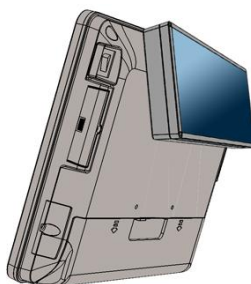
2. Adjust the hinge of the VFD, and then connect to the device as shown below.



3. Mount the VFD to the device and tighten the two M3 screws as shown below.

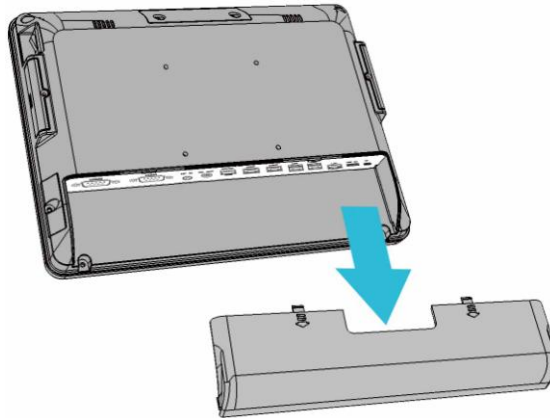


4. Finished.

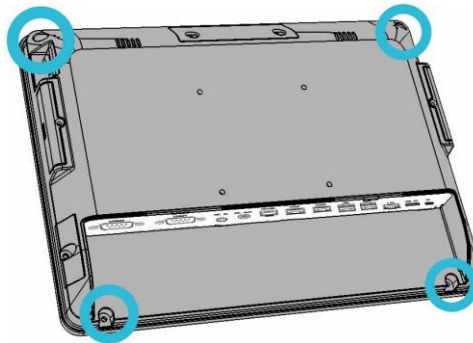


WiFi Module

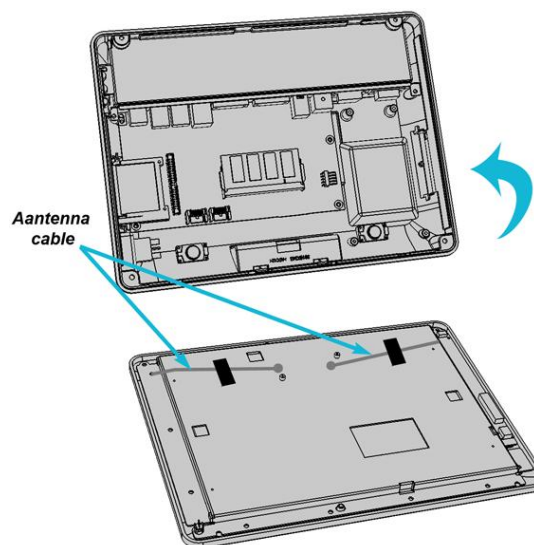
1. Remove the IO panel cover (if installed) from the device.



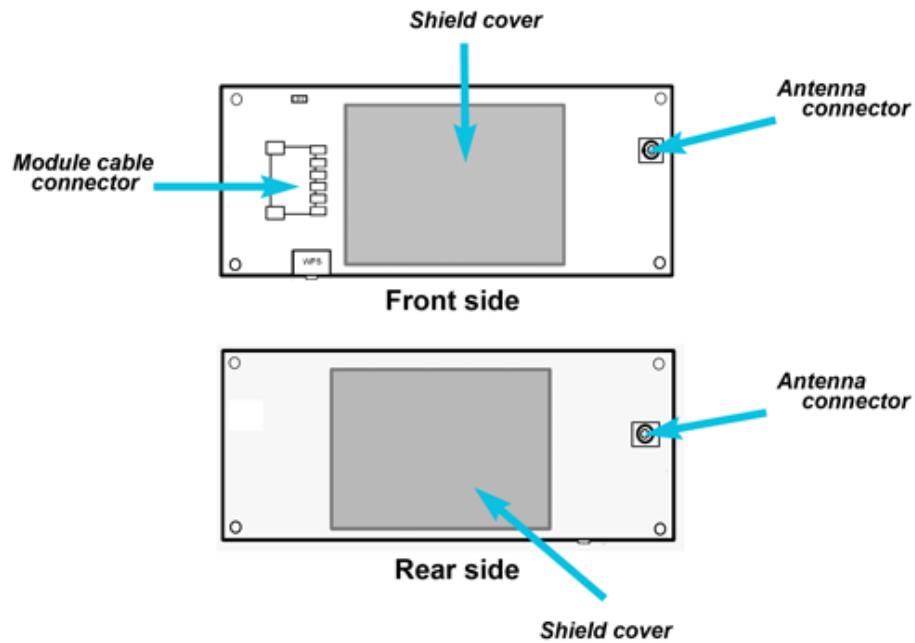
2. Un-tighten four screws.



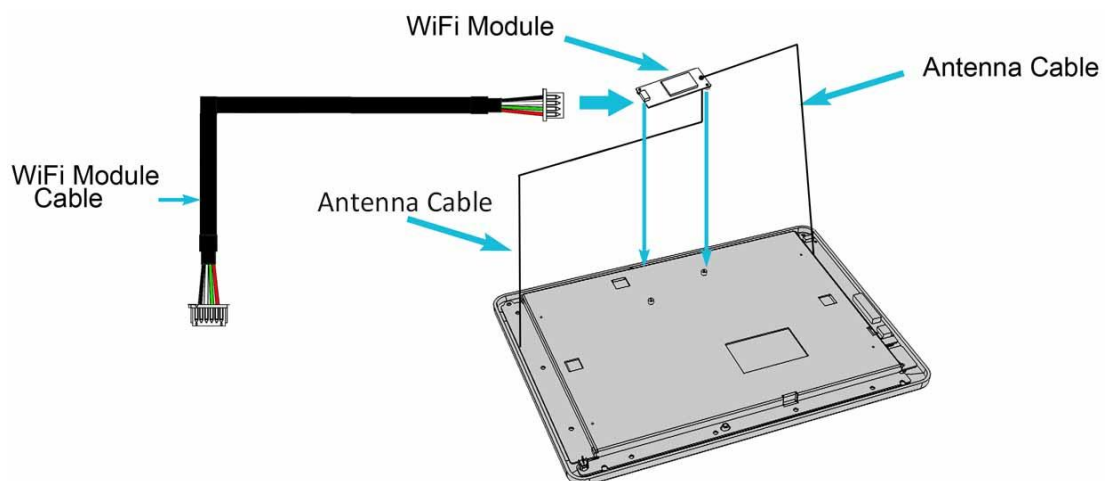
3. Open the device, and you'll see the two antenna cable fixed by black acetate tape.



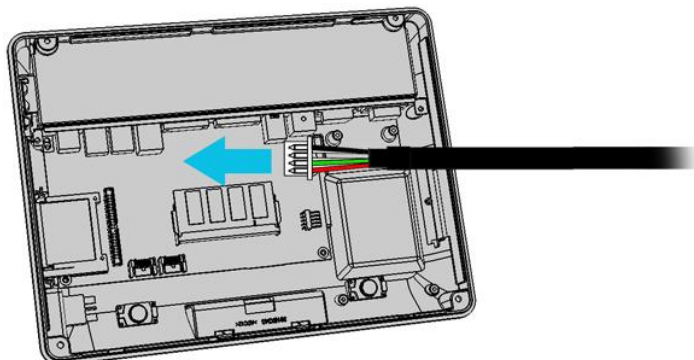
4. Below is the layout of the Wi-Fi module.

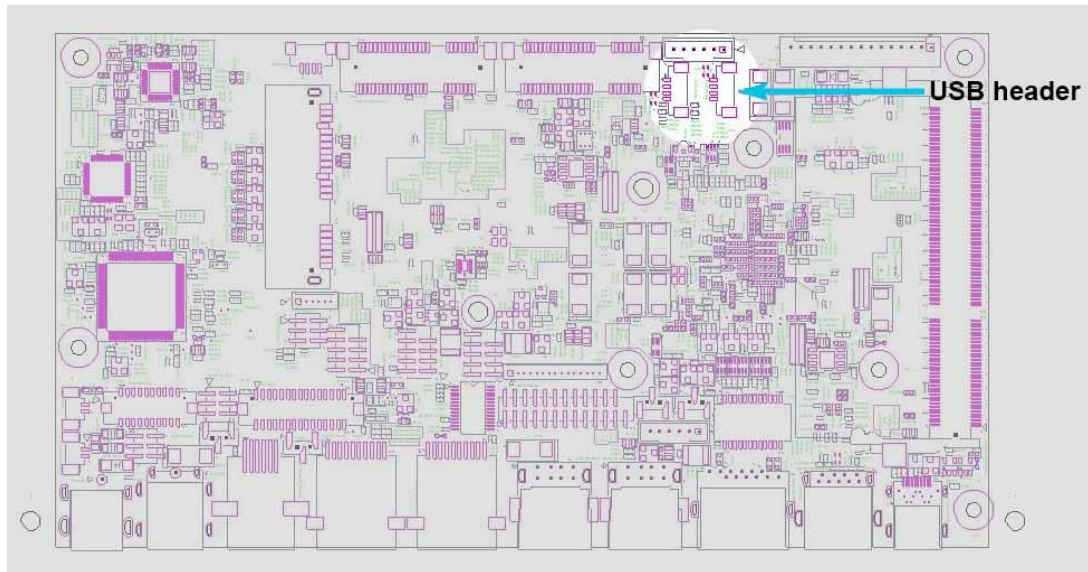


5. Assemble the WiFi module, antenna and WiFi module cable as shown.



6. Connect the another end of the WiFi module cable to the 4 pin USB header (USB 4) on the main board. For the location of the USB4 on the main board, please refer to the figure below.



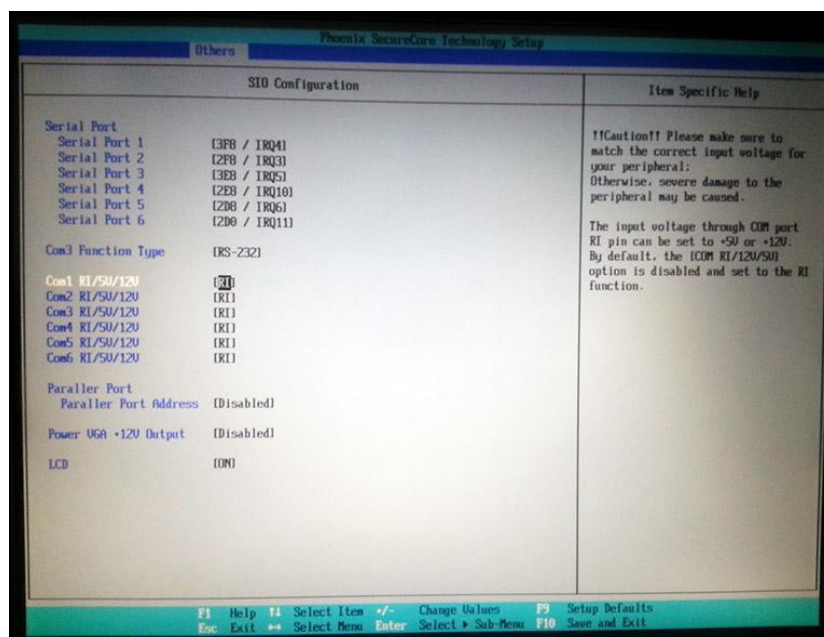


7. Reassembly the device.

B. Power Supply Configuration

Power up the XPPC710 and hit the DEL key to enter the BIOS. When the BIOS screen appears use the TAB key to select Advanced. Use the arrow keys to select Super IO Configuration then type ENTER. The screen below will appear. Use the arrow keys to select **Serial Port 6** RI/12V depending on what port the customer display is connected to. Select 12V to enable power to the correct COM port. Type F10 to save the settings and exit the BIOS setup.

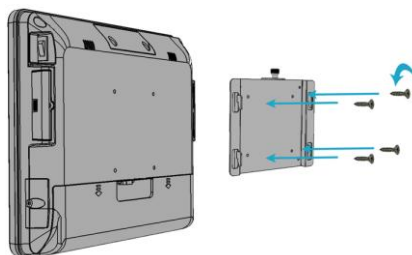
Caution: Never enable the 12 V without the customer display attached and be sure to disable the 12 V before removing the customer display.



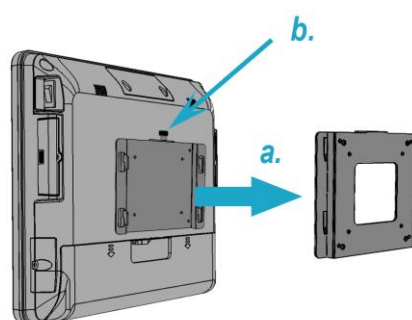
NOTE: The figure above is for reference only; it is possible that the actual screen on your device does not agree with it.

1.4. VESA Wall-mount Kit Installation

1. Install the device bracket.

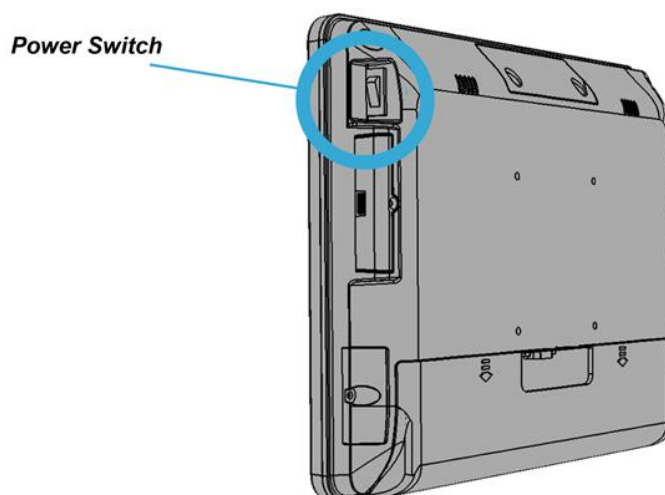


2. Put the XPPC 710 onto the wall bracket which is preinstalled on the wall.
3. Tighten the screw.



1.5. Turn on the device

1. Make sure all peripherals are connected properly.
2. Press and hold the power switch until the power indicator on the front panel glows green.



I/O Definition

Please refer the detailed technical information about all I/O ports as followings.

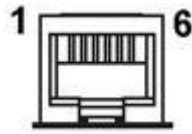
2.1. Serial Port



COM Port			
PIN	Description	PIN	Description
1	DCD	6	DSR
2	RXD	7	RTS
3	TXD	8	CTS
4	DTR	9	RI / 5V /12V
5	GND	10	NC

PIN	R232	RS422	RS485
1	DCD	TX-	D-
2	RXD	TX+	D+
3	TXD	RX+	
4	DTR	RX-	

2.2. Cash Drawer



PIN	Description	PIN	Description
1	GND	4	DC24V
2	D_OUT0	5	D_OUT1
3	D_IN	6	GND

Cash Drawer Control

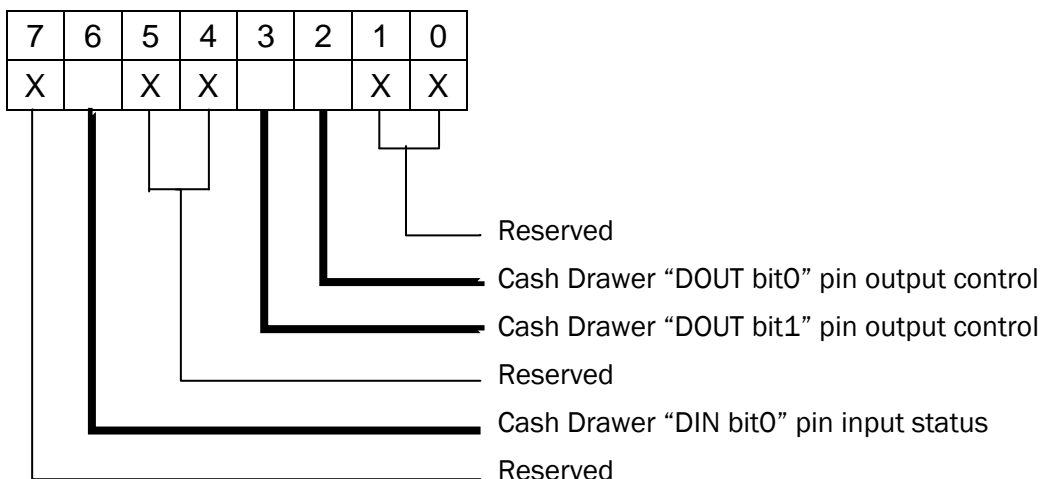
The Cash Drawer Controller use one I/O addresses to control the Cash Drawer.

Register Location: 48Ch

Attribute: Read / Write

Size: 8-bit

BIT	BIT7	BIT6	BIT5	BIT4	BIT3	BIT2	BIT1	BIT0
Attribute	Reserved	Read	Reserved		Write		Reserved	



BIT7: Reserved

BIT6: Cash Drawer "DIN bit0" pin input status.

= 0: the Cash Drawer closed or no Cash Drawer

= 1: the Cash Drawer opened

BIT5: Reserved

BIT4: Reserved

BIT3: Cash Drawer "DOUT bit1" pin output control.
 = 1: Opening the Cash Drawer
 = 0: Allow close the Cash Drawer

BIT2: Cash Drawer "DOUT bit0" pin output control.
 = 1: Opening the Cash Drawer
 = 0: Allow close the Cash Drawer

BIT1: Reserved

BIT0: Reserved

Note: Please follow the Cash Drawer control signal design to control the Cash Drawer.

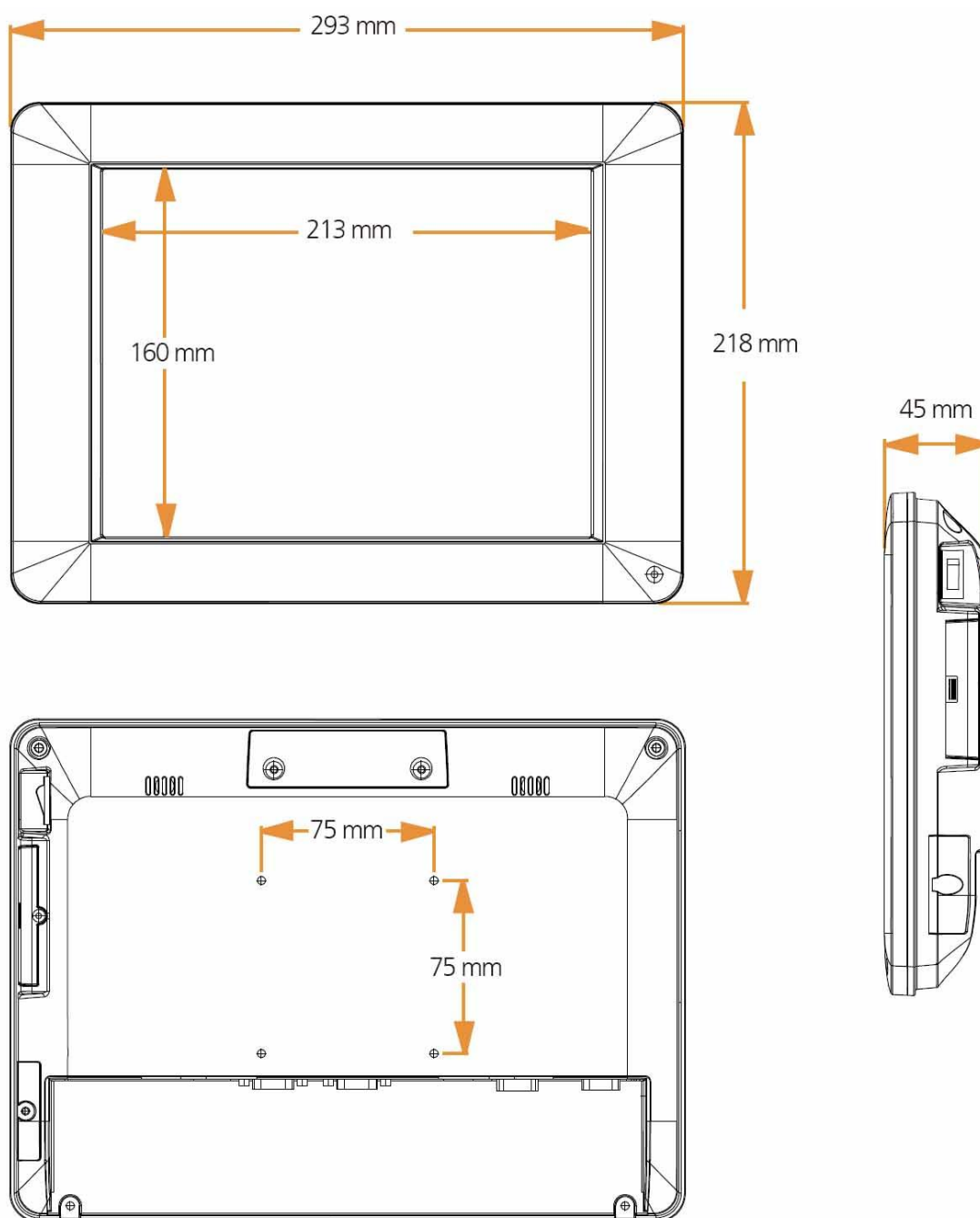
Cash Drawer Control Command Example

Use Debug.EXE program under DOS or Windows98

Command	Cash Drawer
O 48C 04	Opening
O 48C 00	Allow to close
➤ Set the I/O address 48Ch bit2 =1 for opening Cash Drawer by "DOUT bit0" pin control. ➤ Set the I/O address 48Ch bit2 = 0 for allow close Cash Drawer.	

Command	Cash Drawer
I 48C	Check status
➤ The I/O address 48Ch bit6 =1 mean the Cash Drawer is opened or not exist. ➤ The I/O address 48Ch bit6 =0 mean the Cash Drawer is closed.	

Specification



CPU	Intel® Bay Trail-Mobile/Desktop SoC Processor: Celeron® N2930(4 cores, up to 2.16 GHz, max TDP 7.5 Watt) Celeron® J1900(4 cores, up to 2.42 GHz, max TDP 10 Watt)
System Memory	SO-DIMM DDR3L 1067/1333MHz x 1, Max. 8GB
Graphic	Intel® HD Graphics
Cooling Solution	Fan-less
BIOS	Phoenix uEFI BIOS
OS	Windows Embedded POSReady 7 Windows 7 Professional for Embedded Systems Windows Embedded 8 Industry Linux kernel 3.0+ & associated distributions Android Compliant OS Window 10
Display	
Size	10.4" TFT LCD Panel (LED Backlight)
Brightness	400 nits (typ. w/o touch)
Resolution	1024 x 768
Panel backlight type	LED
Front panel type	Bezel-Free
Tilt Angle	17°~67°
Touch Screen	5wire Resistive
Storage Device	
Interface	SATA x 2 (3.0Gb/S)
HDD or SSD	2.5" SATA HDD x 1 / SSD mSATA x 1 slot SSD
I/O Ports	
Serial	COM Port x 4 COM 1 / 2 : RS232, RJ50 COM 3 : RS232/422/485, DB-9, pin9 with RI/5V/12V selectable by BIOS COM 4 : RS232, DB-9, pin9 with RI/5V/12V selectable by BIOS (can be replace by VGA)
USB	USB 2.0 x 4 USB 3.0 x 1
LAN	Gigabit Ethernet by RJ-45 x 1, support Wake on LAN
Cash Drawer	RJ12 x 1, support 12V / 24V DC cash drawer
Audio	2W Speaker x 2
VGA	DB15 x 1 optional for replace COM4
DP / HDMI	mini Display Port x 1(supporting active converter cable to

	VGA, DVI, HDMI)
DC-in	19VDC input x 1, 2pins jack
DC-out	12VDC x 1/1A output
Others	
Mounting mechanism	Support VESA Mount
Expansion Slot	half size Mini PCIe x 1
Connectivity	Wireless LAN module, half size mini PCIe type (Optional)
Power Supply	External adapter, 19V DC input, 65Watt/ 90Watt optional
Color	Black
Material	Plastic / Aluminum
Certifications	CE / FCC / WEEE / RoHS
Dimension (WxDxH)	29.3 x 4.5 x 21.8 cm (11.5 x 1.8 x 8.6 inch)
Net Weight / Gross Weight	2.7 kg, 6 lb / 4.2 kg, 9.3 lb
Environmental	
Operating Temperature	0 to +40°C
Storage Temperature	-20~ 60°C
Humidity	20% to 85% RH (non condensing)