



CommTRON

WCP2157

User's Manual



Notice

The illustrations in this user's manual are for reference only.

Actual product specifications may vary with territories.

The information in this user's manual is subject to change without notice.

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1. Preface

1.1 Regulations information

CE compliance

This device is classed as a technical information equipment (ITE) in class A and is intended for use in commercial, transport, retailer, public, automation...field.

FCC rules

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.



CAUTION! Any changes or modifications not expressly approved by the guarantee of this device could void the user's authority to operate the equipment.

1.2 Release history

Version	Revision note	Date
1.0	First released	05.2020

1.3 Safety instructions

The following safety precautions will increase the life of the PPC (Panel PC). Follow all Precautions and instructions.



Do not place this device underneath heavy loads or in an unstable position.



Do not use or expose this device around magnetic fields as magnetic interference may affect the performance of the device.



Do not expose this device to high levels of direct sunlight, high-humidity or wet conditions.



Do not expose to or use near liquid, rain, or moisture. Never pour any liquid into an opening. This may cause damage or electrical shock.

The unit can be operated at an ambient temperature of max.40°C (104°F). Do not subject it to temperatures below 0°C (32°F) or above 40°C (104°F).



CAUTION! Incorrectly replacing the RTC battery may damage this PPC. Replace only with the same or equivalent as recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

1.4 Notes for this manual



CAUTION! Important information that must be followed for safe operation.



NOTE: Information for special situations.

2. Getting to know the basics

2.1 Product specification

This User's Manual provides instructions and illustrations on how to operate this PPC. It is recommended to read this manual carefully before using this PPC.

Physical characteristic

Dimension	543 x 334 x 49.9 mm
Weight	7.6~8 kg (Net) (Depend upon the actually shipping product)

CPU

Support processor	Intel Whiskey Lake-U platform Intel Core i5 Processor: i5-8365UE vPro Intel Core i7 Processor: i7-8665UE vPro (Optional) Intel Core i3 Processor: i3-8145UE (Optional) Intel Celeron Processor: 4305UE (Optional)
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Memory

DDR4	Support DDR4 memory (Up to 64GB), RAM socket x2, Speed: 2400MHz
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Power

AC adapter	90 watts, 3 pin
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Storage

SATA-7pin	SSD 2.5", 7mm, Slidable design (Up to 1TB) 1x PCIe or SATA I/F (Up to 1TB, optional)
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I/O port

USB 3.0	X 4
DB9 (RS232)	X 1
DB9 (RS232/ RS422/ RS485)	X 2 (RS232 with Ring/5V/12V Voltage)
HDMI	X 1
Audio jacks	X 2 (Mic-in & Line-out)
DC-in	X 1
DVI-I-I (Single Link)	X 1
LAN (RJ45)	X 2 (1st LAN on MB, 2nd LAN via daughter board)

Audio

Audio controller	Realtek ALC662VDO-GR
Internal speaker	2 x 2W

Display

LCD	21.5" FHD, 16:9 LED type
Resolution	1920*1080 supported
Touch	True-Flat PCAP touch

Webcam

2M HD Webcam	Built-in webcam module
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Optional Accessories

Equipotential Module

External Antenna

Desktop Stand (Under development)

100x100 VESA Mount



CAUTION! Model WCP2157 is designed to use with the DC input:

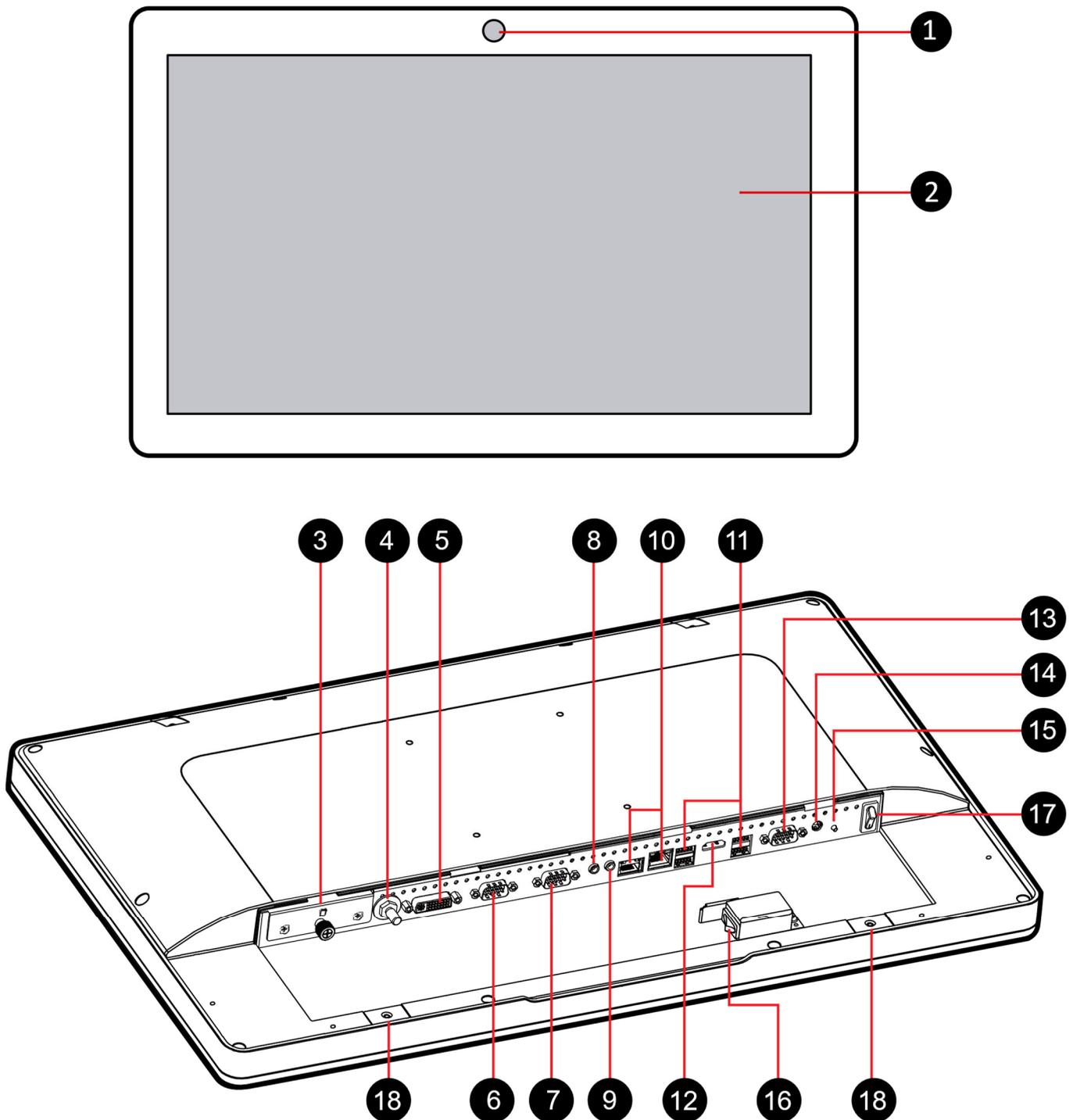
(19V/4.74A) adapter. Adapter watt should follow default setting or refer to rating label information.

2.2 Product overview

Refer to the following illustration to identify the components on this side of the PPC. Features and configurations vary by model.



NOTE: The product's color, I/O port, indicator location, and specification will depend upon the actually shipping product.



- 1 Webcam
- 2 21.5" FHD LCD display (True-Flat PCAP touch)
- 3 SSD 2.5", 7mm
- 4 Potential equalization pin (POAG) (Optional)
- 5 DVI-D port
- 6 COM 3 port (RS232/RS422/RS485)
- 7 COM 2 port (RS232/RS422/RS485)
- 8 Headphone / Line-out jack
- 9 Microphone jack
- 10 LAN (RJ45) ports
- 11 USB 3.0 ports
- 12 HDMI port
- 13 COM 1 port (RS232 only)
- 14 Power jack (DC-IN)
- 15 Power button
- 16 or 17 Power switch: alternative (Depending on the model)
- 18 Magnet

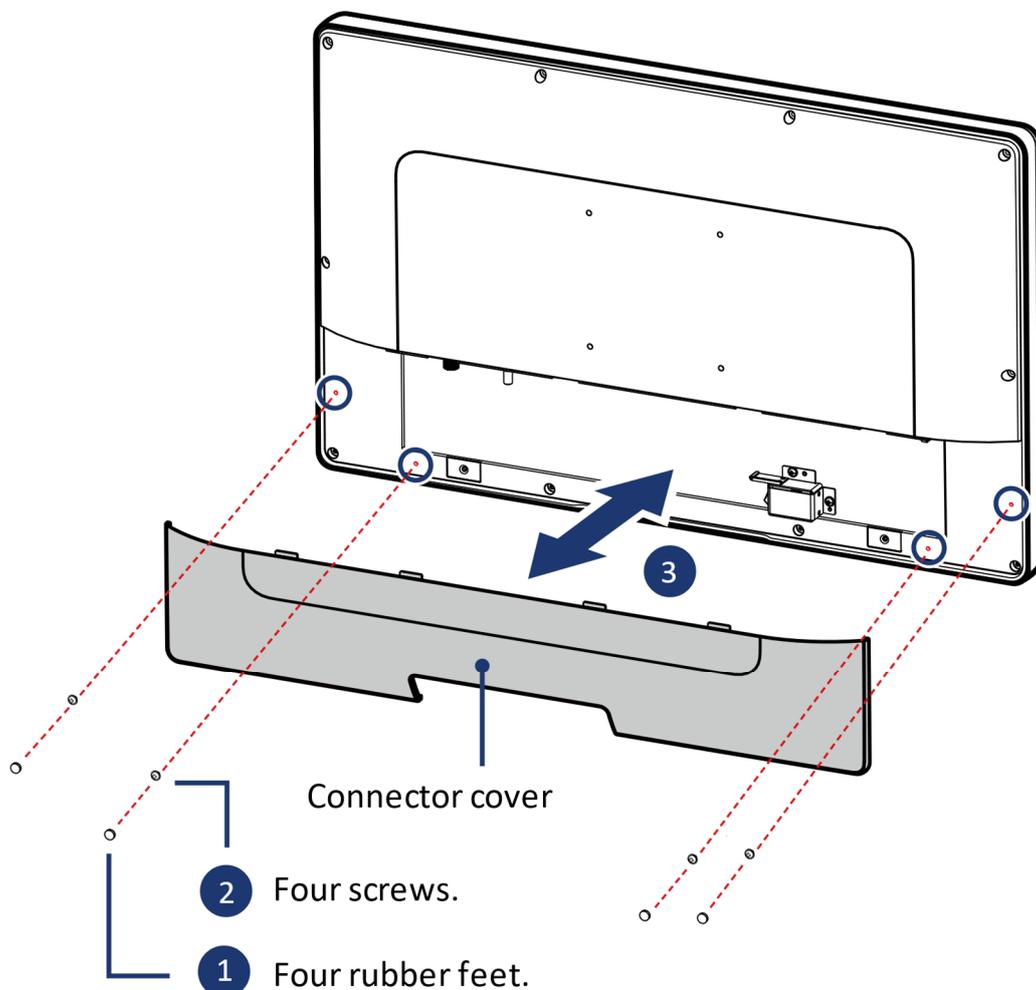
3. Getting started

Before using the rear I/O connectors, you need to remove the connector cover first.



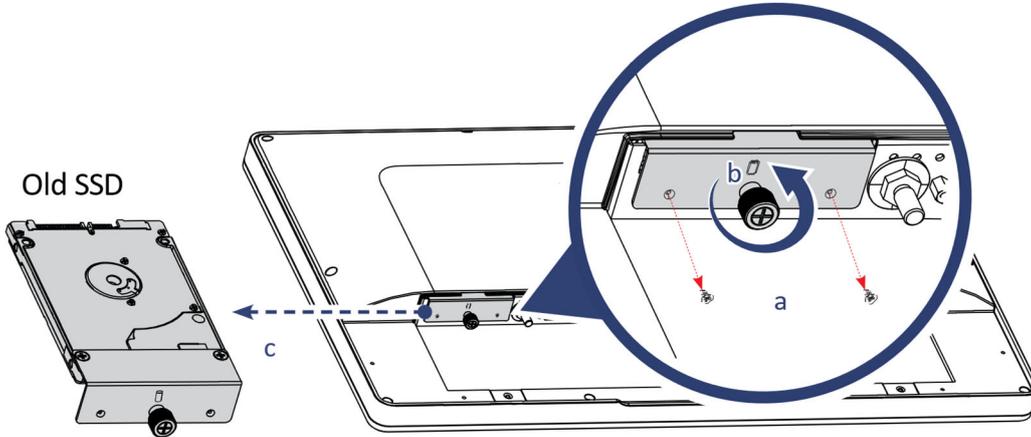
CAUTION! For safety reasons, please ensure that the power cord is disconnected before opening the case.

- Follow the steps (1 → 2 → 3) to remove the connector cover.
- Follow the steps (3 → 2 → 1) to install the connector cover.

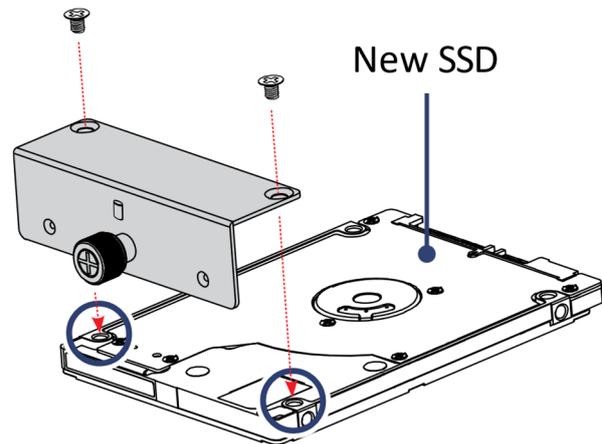


3.1 How to replace the 2.5" SSD

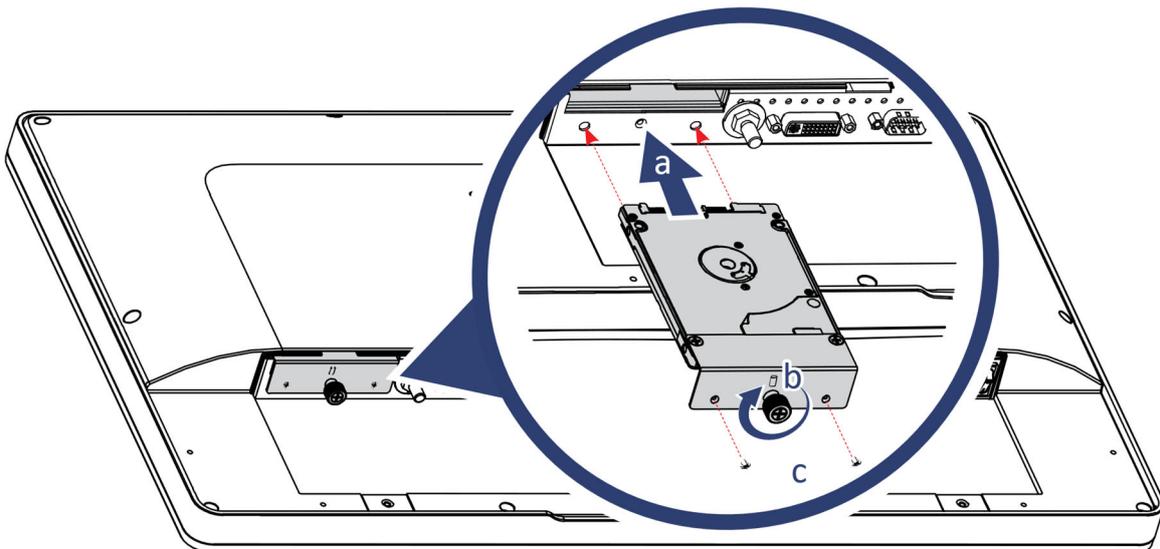
1. If you want to replace the 2.5" SSD, unscrew the thumbscrew and two screws of the bracket, then remove it.



2. Unfasten the two screws (M3*4) and remove old SSD.
As shown, install a new SSD in the bracket and secure with the two screws (M3*4).



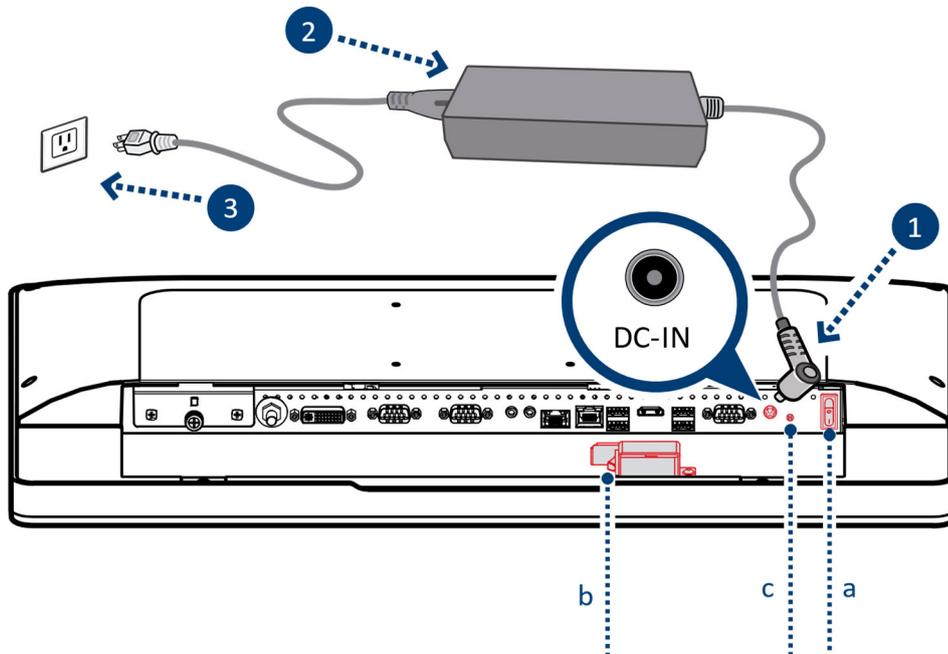
3. Slide the bracket back into the chassis, then tighten the thumbscrew and two screws.



CAUTION! The thumbscrews should be tightened with a tool after both initial installation and subsequent access to the panel.

3.2 Powering on the system

- Follow the steps (1-3) below to connect the AC adapter to the power jack (DC-IN). Press the power switch (4) to turn on the system.



4

Method 1: Depending on the model, press the power switch (a or b) to turn on the system.

Method 2: Press the power switch (c) to turn on the system.



NOTE: Press and hold the power button (a or b or c) for 5 seconds to force shutdown.



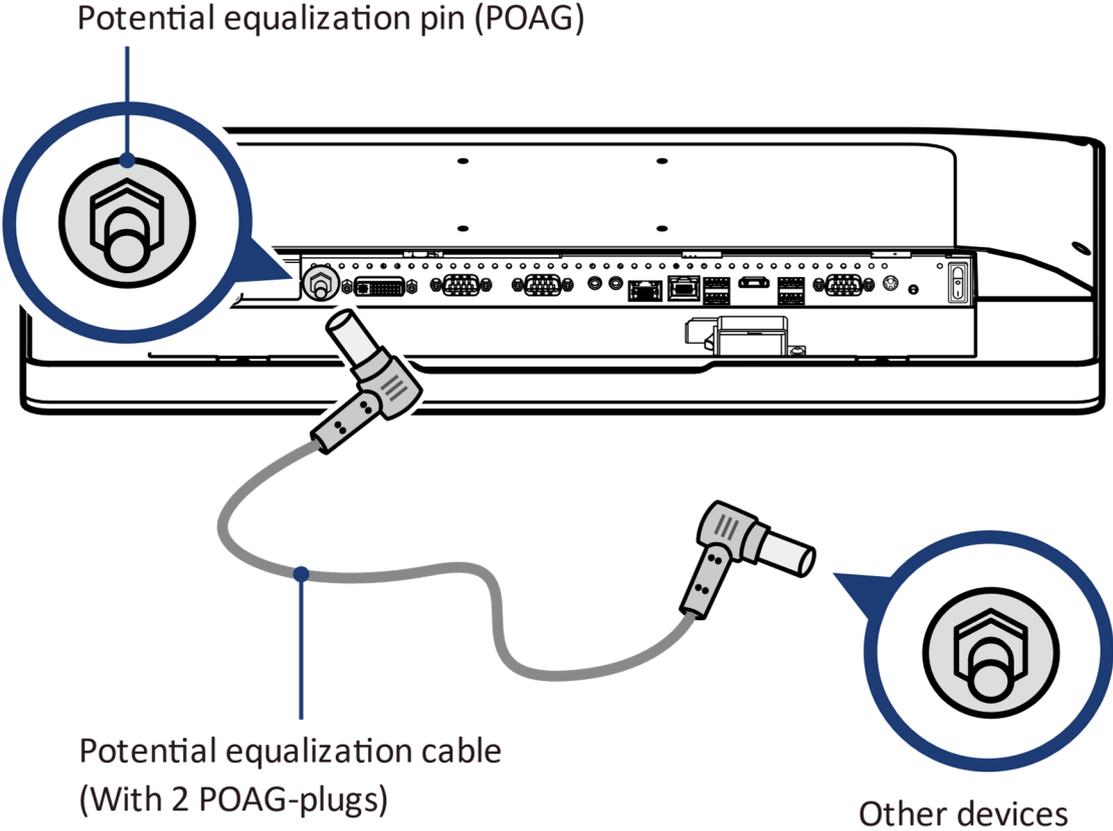
CAUTION! Do not use inferior extension cords as this may result in damage to your PPC. The PPC comes with its own AC adapter. Do not use a different adapter to power the PPC and other electrical devices.



NOTE: The power adapter may become warm to hot when in use. Be sure not to cover the adapter and keep it away from your body.

3.3 Potential equalization (Optional)

When potential equalization between the PPC and other devices is required then connect the potential equalization pin (POAG) to the potential equalization terminal of the equipment.



4. Place the cable/cord/wire inside the box and stow the extra cable lengths before closing the cover.

3.4 Cleaning the screen

Follow these rules for cleaning the outside and handling your screen on the PPC:

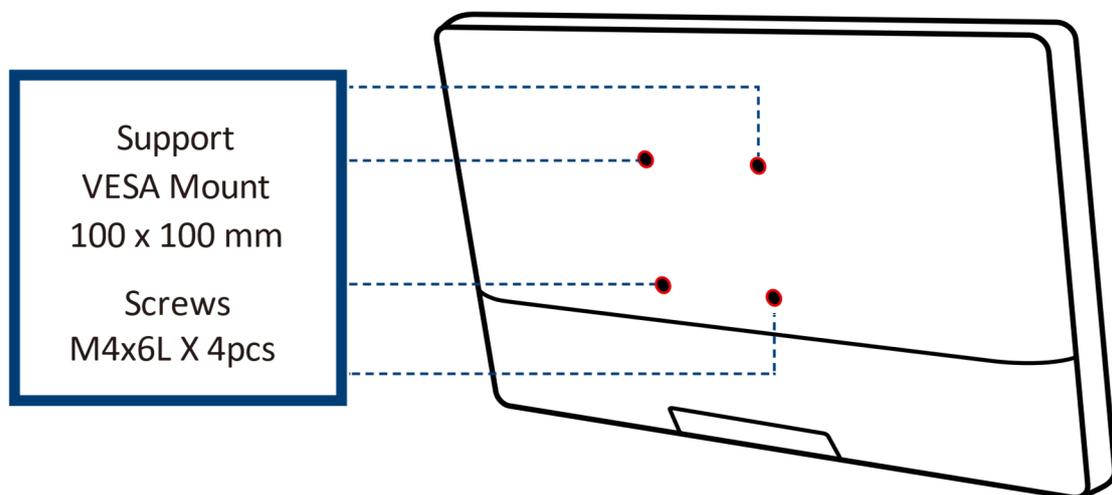
1. Turn off the system and disconnect all cables.
2. Use a damp or cleaning cloth, soft, lint-free cloth with gentle water only and gently wipe the screen surface.
3. Do not spray liquid directly on the screen.



CAUTION! Do not use or spray water and strong solvents such as alcohol, benzene, thinner or any other solvent.

3.5 VESA mounting to the wall (Optional)

Standard VESA to let user guide of the wall/arm mount kit you bought to install it.

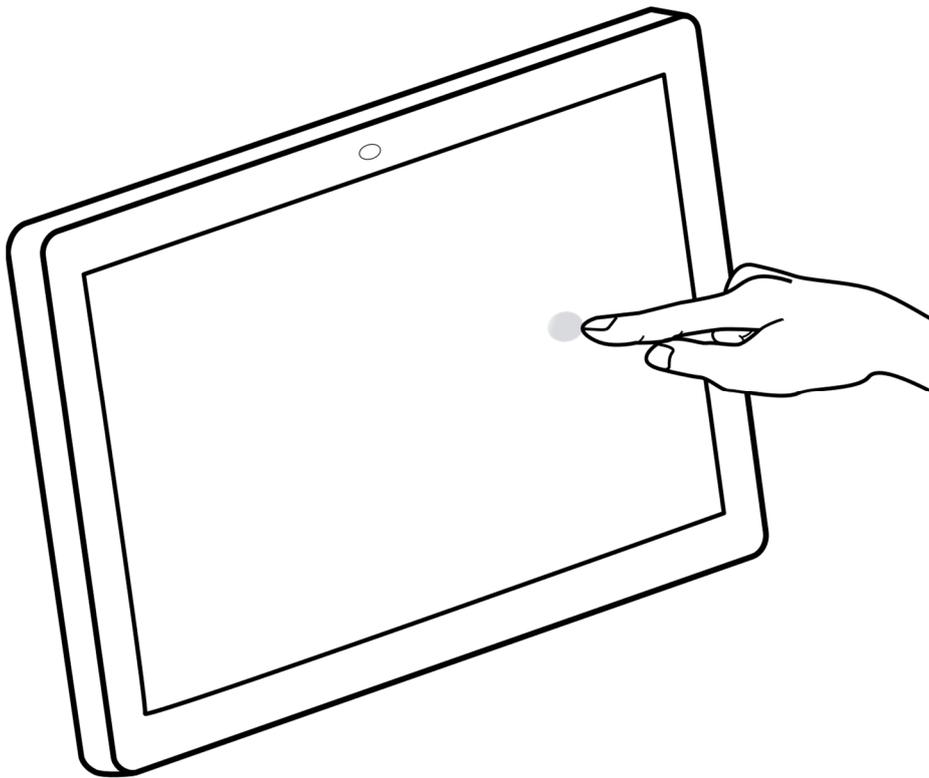


NOTE: Panel PC can be mounted on a wall using a VESA compatible 100mm x 100mm wall/arm bracket, the maximum loading capacity > 10 kg and only for mounting at heights ≤ 2 m.

3.6 How to use touch panel (Optional)

Touch panel brings digital life for an easy touch experience. Experience the ease of managing your digital life with a few touches. Your touch functions like a mouse device and all you need to interact with the touch panel.

1. Touch = left-click on the mouse
2. Touch and hold = right-click on the mouse



CAUTION! No matter PPC with or without stand, usage angle can't less than 90 degree.

4. BIOS setup

4.1 About BIOS setup

The default BIOS (Basic Input/ Output System) is already properly configured and optimized, there is normally no need to run this utility.

4.1.1 When to use BIOS setup?

You may need to run the BIOS Setup when:

5. An error message appears on the screen during the system booting up and is requested to run SETUP.
6. You want to change the default settings for customized features.
7. You want to reload the default BIOS settings.



CAUTION! We strongly recommend that you change the BIOS settings only with the help of a trained service personnel.

4.1.2 How to run BIOS setup?

To run the BIOS setup Utility, turn on the PPC and press the [Del] or [F2] key during the POST procedure.

If the message disappears before you respond and you still wish to enter setup, either restart the system by turning it OFF and ON, or simultaneously pressing [Ctrl]+[Alt]+[Del] keys to restart.

The setup function only can be invoked by pressing [Del] or [F2] key during POST that provide an approach to change some setting and configuration the user prefer, and the changed values will save in the NVRAM and will take effect after the system rebooted.

Press [F7] key for Boot Menu.

When OS support is Windows 10:

1. Click the Start menu  and select Settings.
2. Select Update and Security.
3. Click Recovery
4. Under Advanced startup, click Restart now.
5. The system will restart and show the Windows 10 boot menu.
6. Select Troubleshoot.
7. Choose Advanced options.
8. Select UEFI Firmware Settings.
9. Click Restart to restart the system and enter UEFI (BIOS).