Panel PC

Table of Contents

General Information

Revision History

Date	Version	Updates
2022/02	1.0	First Release

Trademark Recognition

All product names and trademarks used in this user's guide are properties of their respective owners.

Intended Use

Thank you for choosing the TM-5957-22 product. This device is intended to serve as a computing unit in a healthcare institution for general use by healthcare personnel. It can be mounted on the wall, placed on a nursing cart, or any other flat surface for easy access and control.

Operating Principle

1. Panel PC (All-In-One).
2. By utilizing the computing unit, it can translate inputs into meaningful data and information, and show on the screen for user easy access.
3. Users can gain data and information from it, and input feedback proactively through touch screen or relative peripherals.

Significant Performance Characteristics

1. It can connect with relative devices as supplementary unit to the main frame for efficiency.

Operator Profile / Intended User Profile

1. Software and hardware are adjustable for relative personnel upon different applications.
2. No limitation.

Contact Information

Teguar Computers

2920 Whitehall Park Drive

Charlotte, NC 28273

Webpage: www.teguar.com

Safety and Maintenance

To avoid any damages caused by improper usage, please read the following information carefully before you start using your All in One PC.

Electrical and Power Source Related Hazards

- Use only the power supply and power cord included with your device.
- Ensure your electrical outlet is the same voltage and frequency as shown on the power supply. If you are unsure of the outlet's voltage and frequency, please consult the local power authority.
- To avoid power circuit overloads, ensure your wall outlet, extension cord, power strip, or other electrical receptacles are rated to handle the total current drawn by the TM-5957-22 in combination with other devices sharing the same power circuit.
- Please route the power cord properly to prevent it being stepped on.
- For your safety, avoid touching the plug if your hands are wet.
- Hold the power cord by the plug when disconnecting it from the electrical outlet.
- If the device is not going to be in use for an extended period, disconnect the device from the electrical outlet.
- Allowing foreign objects or liquids to enter the device could result in fire or electric shock.
- Warning: To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.
- When the device uses a separate power supply (Power Adapter), the external power supply is also a part of the medical equipment.

Abnormal Handling Procedure / Technical Support and Contact Information

- Product itself is designed with "long-press" on the "Power Button" as an enforced shut-down.
- Access number to local system integrator partners.

Environmental Related Hazards

- Do not use the device under the following conditions:
  - In extremely hot, cold or humid environments. For more information, refer to page 14.
  - In areas susceptible to excessive dirt, dust, fumes, or steam.
  - In direct sunlight or heat generating sources.

Disposal of the Battery

- Most rechargeable lithium polymer batteries are classified as non-hazardous waste and can be safely disposed of in accordance with normal urban waste disposal procedures. In many areas, laws have been enacted to require the recycling of batteries. Please confirm local regulations

to ensure that rechargeable batteries can be disposed of as normal waste. To safely discard lithium polymer batteries, protect the battery terminals with packaging, covering, or electrical insulation tape to avoid contact with other metals and transport without causing a fire. However, lithium polymer batteries do contain recyclable materials and can be recycled according to the Rechargeable Battery Recycling Corporation (RBRC) battery recycling program.

Do not throw the battery into a fire to avoid an explosion.
RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. END-USERS ARE NOT

ALLOWED TO REPLACE THE BATTERY.

Other Hazards
● Do not block the ventilation openings on top of the device.
● Do not use the device if it has been dropped, power supply cord or plug have been damaged, liquid has been spilled on to the device, device has been exposed to rain or moisture, or any other physical damage has occurred.

Caring for Your Device
● Turn off and unplug the power cord from the electrical outlet before cleaning the device.
● When the screen/panel is dirty please use a PDI detergent wipe or a similar product to clean the screen/panel.
● Do not use any acids or cleaning alkali liquids as this may cause cosmetic damage.

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the 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:
-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.

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

RF Exposure Information (SAR)

This device meets the government's requirements for exposure to radio waves.

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard employs a unit of measurement known as the Specific Absorption Rate, or SAR.

The SAR limit set by the FCC is 4 W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the EUT transmitting at the specified power level in different channels.

This device is intended only for OEM integrators under the following conditions：

The module can be used to installation in other host.

the transmitter module may not be colocated with any other transmit or antenna. The module shall

be only used with the integral antenna(s) that has been originally tested and certified with this module.

As long as 2 conditions above are met, further transmitter test will not be required. However, the OEM

integrator is still responsible for testing their end-product for any additional compliance requirement

with this module installed (for example, digital device emission, PC peripheral requirements, etc.)

The final end product must be labeled in a visible area with the following: "Contains FCC ID:

DGIAX210NG".The equipment complies with FCC RF exposure limits set forth for an uncontrolled

environment. The equipment must not be co-located or operating in conjunction with any other antenna

or transmitter.

Regulatory Information

Explanation of Graphical Symbols

Symbol	Description
	Follow the national requirement to dispose unit.
CE	European Conformance Electromagnetic Compatibility Directive(2014/30/EU) Low Voltage Directive (2014/35/EU) Restrictions of the use of certain hazardous substances (RoHS) Directive (2011/65/EU)
FC	US Conformance FCC Part 15 Subpart B Regulations Class B
	ISO 7010-M002: Refer to instruction manual/booklet NOTE : On ME EQUIPMENT "Follow instructions for use"
ENERGY STAR	The ENERGY STAR® symbol is the internationally recognized and trusted mark of high efficiency. The symbol means that a product, new home, building or industrial facility is certified as energy efficient.

1. CLASSIFICATION:

   ▪ Supply Class I adapter
   ▪ No applied part
   ▪ IPX0
   ▪ Continuous Operation
   ▪ Not AP or APG category

2. Disconnect device: Appliance inlet of Power Adapter, please do not to position the Power Adapter so that it is difficult to operate the disconnection device.
3. Follow the national requirement to dispose unit.
4. This equipment shall not be used for life support system.
5. A periodical checking of power adapter is necessity if they are any abnormal condition happened shall be contact with manufacturer, refer to "Contact Information".
6. The equipment is placed front side in normal use that shall not be undertaken in transport position.
7. If you notice any abnormalities such as odor, noise, or smoke, stop using this device. Otherwise a fire or burn may result. Remove the batteries carefully to avoid burning yourself, and contact your dealer or consult Tangent.
8. "This All-In-One PC used with AC/DC adapter power supply is specified as a part of MED Equipment"
9. The electrical connection of the All-In-One PC needs to be checked every time it is used

Warning	To prevent electric shock, Do not remove cover. No user serviceable parts inside, refer servicing to qualified personnel.
Attention	Pour éviter tout choc électrique, ne pas retirer le couvercle. L'intérieur ne contient pas de composants, se reporter l'entretien à du personnel qualifié.

Warning	Do not modify this equipment without authorization of the manufacturer.
Attention	Ne pas modifier cet équipement sans autorisation du fabricant.

10. Grounding reliability can only be achieved when the equipment is connected to an equivalent receptacle marked "Hospital Only" or "Hospital Grade".

11. se 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 if use of incorrect power cord may present a risk of fire.

   Use U.S.A and Canada power supply cord information as below

	U.S.A. and Canada
Plug type	HOSPITAL GRADE*
Cord type	Min. Type SJT
	Min. 18 AWG
Minimum rating for plug and appliance couplers	10 A / 125 V
Safety approval	UL Listed and CSA

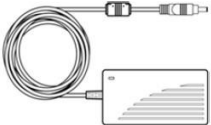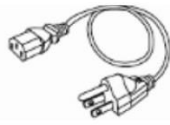The power cord length not longer than 3m.

   Accessory equipment connected to the analog and digital interfaces must be in compliance with the respective nationally harmonized IEC standards (i.e. IEC 60950 for data processing equipment, IEC 60065 for video equipment, IEC 61010-1 for laboratory equipment, and IEC 60601-1 for medical equipment.) Furthermore all configurations shall comply with the system standard IEC 60601-1-1. Everybody who connects additional equipment to the signal input part or signal output part configures a medical system, and is therefore, responsible that the system complies with the requirements of the system standard IEC 60601-1-1. The unit is for exclusive interconnection with IEC 60601-1 certified equipment in the patient environment and IEC 60XXX certified equipment outside of the patient environment. If in doubt, consult the technical services department or your local representative.

Note! Environmental protection
Follow national requirements to dispose of unit.

Product Overview

Package Contents

Before using your All-In-One PC, ensure all of the following items are included in the package.
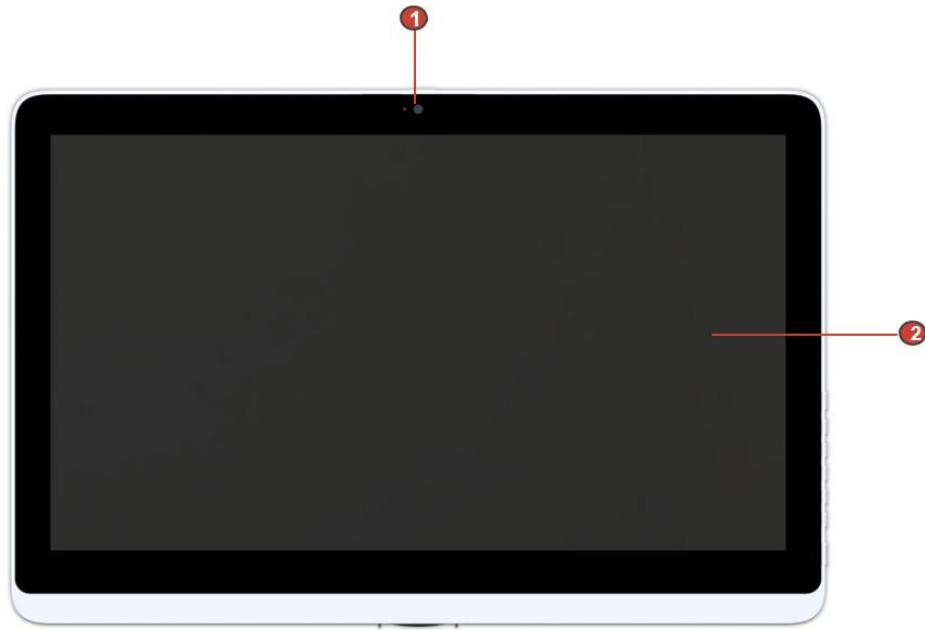If any of the items are missing or are damaged, please contact your dealer.

TM-5957-22 All-In-One PC	User Manual
White AC Adapter (Input: 100-240Vac Output: 19V, 4.74A/90W MAX)	White Power Cord

Features
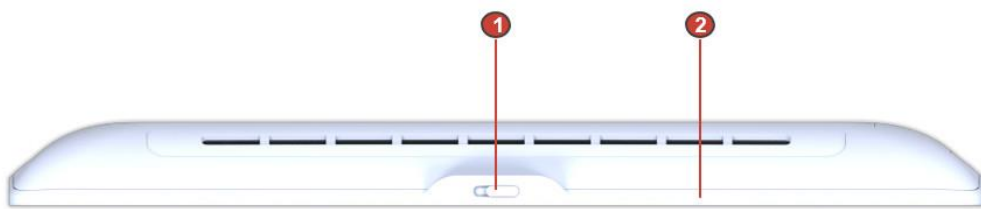
Device features include:

- Ultra slim (45 mm/1.8 in) fan-less all-in-one design
- With battery 6.2kg/2.81lbs, without 5.8kg/2.63lbs.
- IP65 and antibacterial plastic housing at the front, IPX1 at the rear
- Intel® Core™ i7 type i7-7600U, 2.8 GHz / i5 type i5-7300U, 2.6 GHz process
- SSD M.2 NVME storage support
- 10 points projected capacitive (PCAP) multi-touch display with dual layers glove support
- Webcam with security cover and integrated microphone
- Stereo speakers
- Standard VESA mounts
- Versatile I/O interface
- Reading light
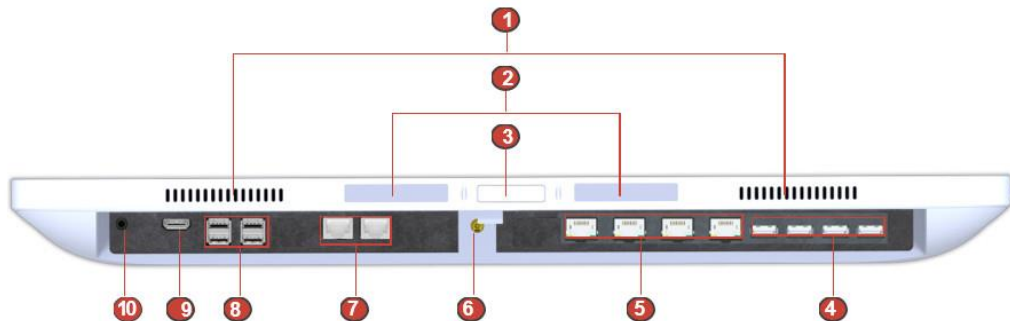- RFID module support (Optional)

Front View

No.	Icon	Item	Description
1		Webcam	Use camera to capture images, record videos, or hold a video conference.
2		Touchscreen	10 point projected capacitive multi-touch display with glove support.

Top View

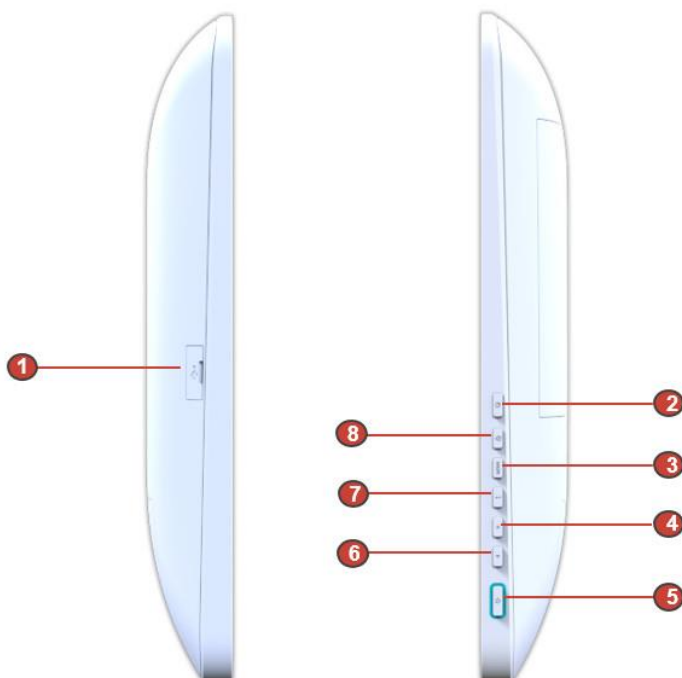| No.	Icon	Item	Description
1		Webcam Security Cover	Slide to cover or uncover the webcam lens.
2		Antibacterial Coating	Ensures a bacteria-free surface.

Bottom View

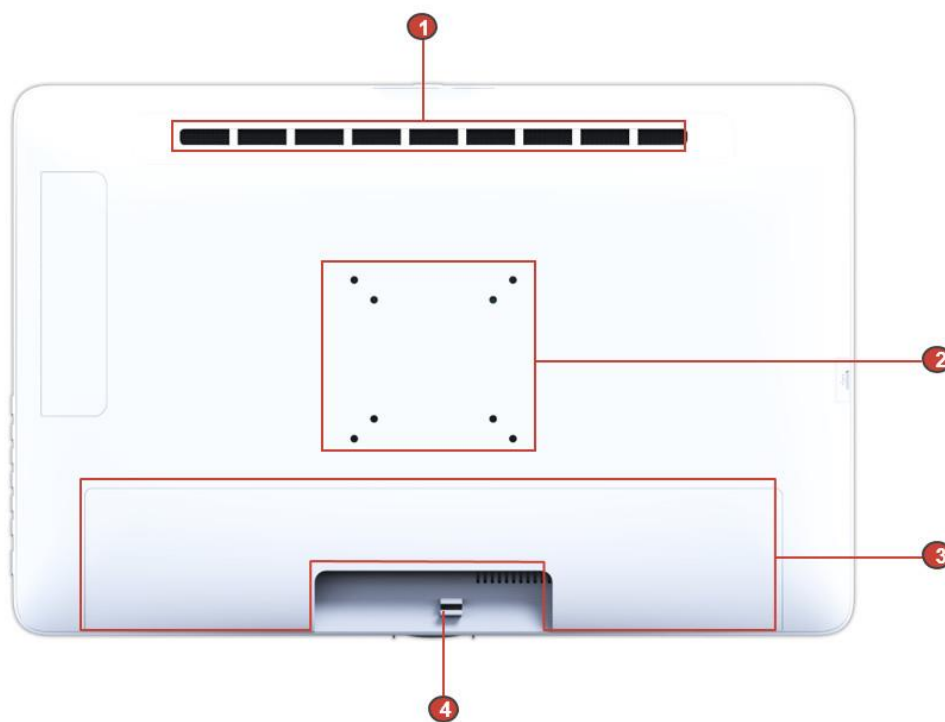**NOTE:** *The bottom view is displayed with the cable management cover removed.*

No.	Icon	Item	Description
1		Speakers	Stereo audio output.
2		Reading Light	Helps illuminate work areas.
3		Reading Light Switch	Toggle reading light on/off.
4		2x USB 2.0 Ports	Connect USB 2.0 compatible devices.
5		4x Serial Ports (RJ48)	Connect RS-232 compatible devices.
6		DC-In Jack	Power input from the supplied AC adapter.
7		2x LAN Ports	Connect to a Local Area Network (LAN).
8		4x USB 3.2 Ports	Connect USB 3.2 compatible devices.
9		HDMI Out port	Auxiliary HDMI compatible video monitor output.
10		Audio Combo Jack	External audio output.

Left and Right Views

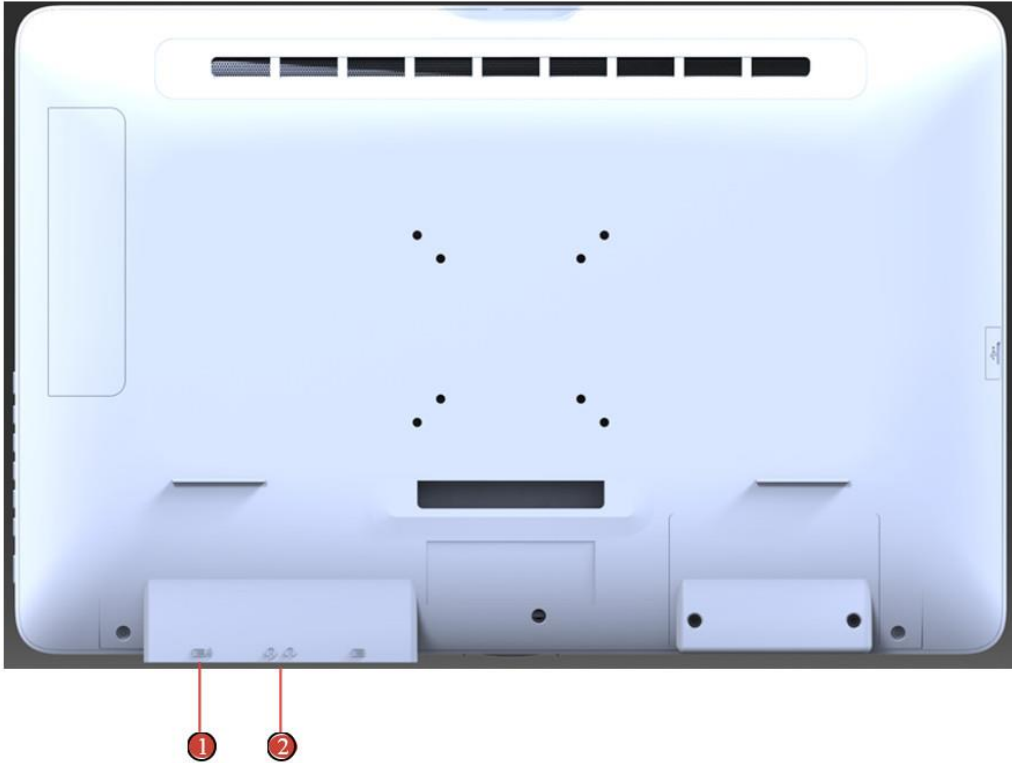| No.	Icon	Item	Description
1		USB 2.0 Port	Connect USB 2.0 compatible devices. **NOTE:** *To use the USB port, open the port cover first. After using, replace the cover.*
2	◑	Screen Button	Long press for 3 seconds to toggle the display on/off.
3		Brightness up Button	Adjust volume up.
4	▲	Volume up Button	Back light Bright ness up
5		Power Button with LED	● If illuminated green, toggle to enter/exit sleep mode. **NOTE:** *To shut down the device, press* **Start** > **Power** > **Shut down**. ● Otherwise, press to power on.
6	▼	Volume down Button	Back light Bright ness down.
7		Brightness down Button	Adjust volume down
8	⦵	Mute Key	Video input source selection allows proper device ventilation. The default setting is Auto Detection.

Rear View

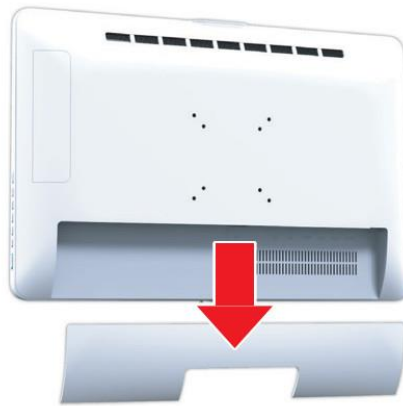| No.	Icon	Item	Description
1		Ventilation Slots	Allows proper ventilation of the device. WARNING! *To prevent overheating, do not block ventilation slots.*
2		Screw holes for VESA mounting installation.	
3		Cable Management Cover	Use for cable management.
4		Cable Guide	Use for securing the AC adapter cable.

RFID SKU Rear Viewing

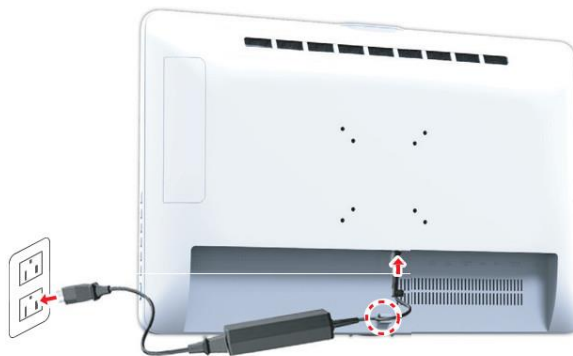| No.	Icon	Item	Description
1		Smart card slot. Demo as below picture.	
2		Line out phone jack	Support dual line for ear phone

Switching On the Device

To start using your panel PC, do the following:

1. Connect the power cord to the AC power adapter.
2. Remove the cable management cover.

3. Connect the AC adapter to the DC-in jack on the panel PC's bottom, and secure the cable to the cable guide as illustrated.
4. Connect the power cord to an electrical outlet.

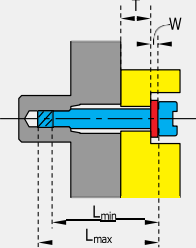5. Press the Power button on the right side of the device. The Power button is illuminated green.
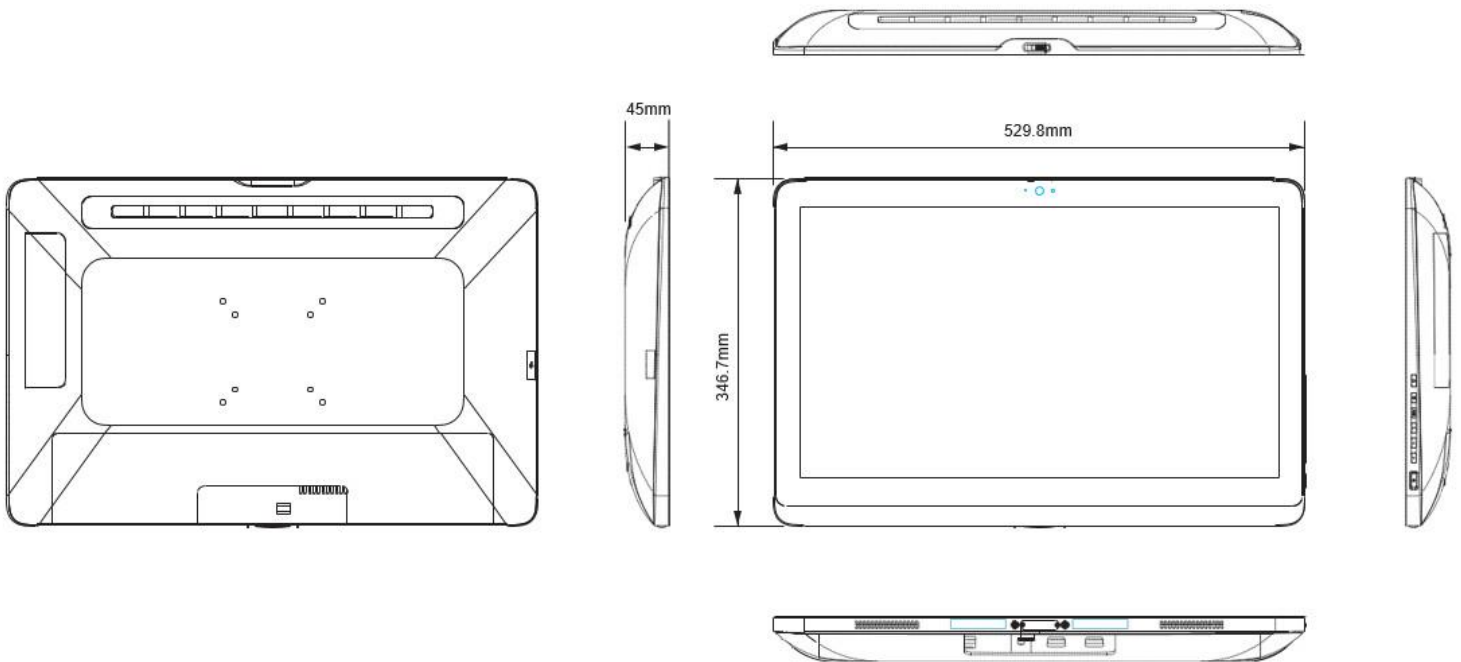

Your panel PC is ready to be used.

Specifications

The following table includes all the features and operational requirements regarding your panel PC.

Item	Description	
Size / Resolution	21.5" W FHD screen	
Dimension (W x H x L) with battery	529.8 mm x 346.7 mm x 45 mm	
	20.9 in x 13.6 in x 1.8 in	
	NOTE: Please refer to page 15.	
Weight with battery	6.2 kg	
	2.81 lbs	
Without battery	5.8 kg	
	2.63 lbs	
Processor	Intel Tiger Lake UP3	
Touch Feature	10 point PCAP multi-touch display with glove support	
Graphics	Integrated Intel Graphics Memory	
DDR	2x DDR4 slots, up to 64GB	
Network	2x Intel GbE LAN	
Wireless	WiFi 802.11 a/b/g/n/ac + Bluetooth 4.2	
Trusted Platform Module (TPM)	Yes	
Audio	Speakers 3W	
Webcam	2M webcam with digital microphone	
Main Storage	M.2 NVMe PCIe SSD compatible	
2nd Storage	M.2 NVMe PCIe SSD compatible	
Internal Battery Life	Max: 2 hours	
I/O Ports	4x USB 3.2	1x Audio Combo
	1x HDMI Out	5x USB 2.0
	2x LAN (RJ45)	4x Serial Ports (RJ48)
	1x DC-In	
Adapter	Input: 100-240V~1.5A 50/60Hz	Output: 19V/4.7A, max. 90W
IP Rating	IP65 front panel, IPX1 rear panel	
Thermal Solution	Fanless housing	
VESA Wall Mount	• 75x75 & 100x100mm VESA mounting, Compatible with ARS5 Arm Head (Quantity : 4 pcs) • The VESA mounting holes at the back of the terminal are provided with M4-type blind fasteners to fix the VESA mounting plate. Depending on the VESA plate thickness	

	(T) and the thickness of possible washers (W), a different screw length (L) should be selected. Please respect the following rule to select an appropriate screw length: (W=1mm) ▪ L_{min} = T + W + 10 mm ▪ Lmax = T + W + 15 mm • Arm selection suggestions: Includes VESA standards with hole pattern bracket. The designed using aluminium alloy and plastic materials. • It is not designed for use on locked walls, and will not provide base to consumers. It can only be used in vesa mode. Max.Load-bearing: 10 kg
Temperature	• Operational: 0°C~40°C (32°F~104°F) • Storage: -10°C~50°C (14°F~122°F) • Transport: -10°C~+50°C (14°F~122°F)
Humidity	• Operational: 20%~80% @40°C non-condensing • Transport: 15%~95%
Atmospheric Pressure Range	• Operational: 620 to 1060 hPa • Transport: 375 mmHg to 800 mmHg (500 hPa to 1060 hPa)
Operation Altitude	4000m
Operating System	Windows 10 (optional)
Optional Accessories	Radio-Frequency Identification (RFID) / Barcode scanner Smart Card reader
Other Features	Reading light / Camera privacy latch

Dimensions

Transport

1. Ambient Air Temperature: -10°C ~ +50°C.
2. Relative Humidity: 15% ~ 95%.
3. Ambient Pressure: 375 mmHg ~ 800 mmHg (500 hPa ~ 1060 hPa).

About the All in One PC

1. Rotation angle: 90 degrees.
2. Can be fixed on the mobile device, and being able to be moved.