

User Manual

POC-621 Series (DC-/AC-in model)

21" Computer



Enabling an Intelligent Planet

Instructions for the User

This document combines text and illustrations, and provides a comprehensive system overview. The information is presented as a sequential steps of actions, enabling the user to learn how to use the device directly.

The text provides explanations and instructs the user step-by-step in the practical use of the product, with short, clear instructions in an easy-to-follow sequence.

Definitions

Warning! A *WARNING* statement provides important information about a potentially hazardous situations which, if not avoided, could result in death or serious injury.



Caution! A *CAUTION* statement provides important information about a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or in damage to the equipment or other property.



Note! A *NOTE* provides additional information intended to avoid inconveniences during operation.



Safety Instructions

1. Follow these Instructions strictly. Please read these safety instructions carefully.
2. Keep this user manual for later reference. Any use of this product requires full understanding and strict observation of these instructions. Observe all **WARNINGS** and **CAUTIONS** as rendered throughout this manual and on labels on the equipment.
3. Repair of the device should only be carried out by trained service personnel. Advantech recommends that a service contract be obtained with Advantech Service and that all repairs also be carried out by them. Doing otherwise may compromise the correct functioning of this device.

Warning! Because of the danger of electric shock, never remove the cover of a device while it is in operation or connected to a power outlet.



4. If one of the following situations arises, get the equipment checked by service personnel:
 - The power cord or plug is damaged.
 - Liquid has penetrated into the equipment.
 - The equipment has been exposed to moisture.
 - The equipment does not work well, or you cannot get it to work according to the user's manual.
 - The equipment has been dropped and damaged.
 - The equipment has obvious signs of breakage.
5. Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning and keep this equipment away from humidity.

Caution! *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 to verify that patient safety is not compromised.*

6. Put this equipment on a stable, reliable surface during installation. Dropping it or letting it fall may result in damage. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.

Caution! *To prevent overheating, do not cover the openings and place the device in direct sunlight or near radiant heaters.*

7. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet. Position the power cord so that people cannot step on it. Do not place anything over the power cord. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient over voltage.

Caution! *Do not leave this equipment in an uncontrolled environment where the storage temperature is below -20 °C (-4 °F) or above 60 °C (140 °F). Doing so may damage the equipment.*

8. If your computer is losing dramatic time or if the BIOS configuration resets to default it means the battery has no power.

Caution! *Do not replace the battery by yourself. Please contact a qualified technician or your retailer.*

The computer comes with a battery-powered real-time clock circuit. There is a danger of explosion if the battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

Caution! *The battery charging indicator is not included in this device. It will be added to the end system assembly and be shown in the end system.*



9. Improper installation of VESA mounting can result in serious personal injury! VESA mount installation should be conducted by professional technician, please contact the service technician or your retailer if you need this service. The detail operating procedure specified on Appendix A.
10. CLASSIFICATION:
 - 1). Class I internal powered
 - 2). No applied part
 - 3). Continuous operation
 - 4). Not AP or APG category

Warning! *This device is not suitable for use in the presence of flammable anesthetic mixture with air, oxygen, nitrous oxide, or for life support system.*



11. Environmental protection: follow national requirements when disposing of this unit.
12. Maintenance: to properly maintain and clean the surfaces, use only the approved products or clean with a dry applicator.

Caution! *When servicing the device, always use replacement parts that are qualified to Advantech standards. Advantech Medical cannot warrant or endorse the safe performance of third-party replacement parts for use with our medical device.*

13. Make sure the user not to contact SIP/SOPs and the patient at the same time.
14. When networking with electrical devices, the operator is responsible for ensuring that the resulting system meets the requirements set forth by the following standards:
 - EN 60601-1 (IEC 60601-1)
Medical electrical equipment
Part 1: General requirements for safety
 - EN 60601-1-1 (IEC 60601-1-1)
Medical electrical equipment
Part 1-1: General requirements for safety
Collateral standard: Safety requirements for Medical electrical systems
 - EN 60601-1-2 (IEC 60601-1-2)
Medical electrical equipment
Part 1-2: General requirements for safety
Collateral standard: Electromagnetic compatibility; Requirements and tests



Medical Equipment
With Respect to Electric Shock,
Fire, and Mechanical Hazards Only,
In Accordance with UL 60601-1,
CAN/CSA C22.2 No. 601.1, and
IEC 60601-1

15. 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.

Caution! *Use a suitable mounting apparatus to avoid risk of injury.*



16. Grounding reliability can only be achieved when the equipment is connected to an equivalent receptacle marked "Hospital Only" or "Hospital Grade".
17. 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.

Note! *Environmental protection*



Follow national requirements when disposing of this unit.

18. WARNING - Do not modify this equipment without authorization of the manufacturer.
19. WARNING - To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.
20. CAUTION: This adapter Sinpro HPU101-107 is a forming part of the medical device.
21. Remove the power cord to fully turn off the device.

Instructions pour l'utilisateur

Le document combine du texte et des illustrations, offrant un aperçu complet du système. Les informations sont présentées sous forme d'actions séquentielles, permettant à l'utilisateur d'apprendre directement à utiliser le périphérique.

Le texte fournit des explications et informe l'utilisateur, étape par étape, de l'utilisation pratique du produit, avec des instructions courtes et claires, dans une séquence facile à suivre.

Définitions

AVERTISSEMENT! Une déclaration AVERTISSEMENT fournit des informations importantes sur une situation potentiellement dangereuse qui, si elle n'est pas évitée, pourrait entraîner la mort ou des blessures graves.



ATTENTION! Une déclaration CAUTION fournit des informations importantes sur une situation potentiellement dangereuse qui, si elle n'est pas évitée, peut entraîner des blessures mineures ou modérées à l'utilisateur ou au patient ou des dommages à l'équipement ou à d'autres biens.

AVERTISSEMENT! Une REMARQUE fournit des informations supplémentaires destinées à éviter les inconvénients en cours de fonctionnement.



Consignes de Sécurité

1. Suivez minutieusement ces instructions d'utilisation. Veuillez lire attentivement les consignes de sécurité.
2. Veuillez conserver ce guide d'utilisation pour référence ultérieure. Toute utilisation de ce produit requiert une profonde connaissance et le respect intégral de toutes les sections de ces instructions. Respectez toutes les consignes d'AVERTISSEMENT et de MISE EN GARDE comme indiqué à travers le présent guide et sur les étiquettes affichées sur l'appareil.
3. Toute réparation ne doit être effectuée que par un technicien de service qualifié. Advantech recommande d'obtenir un contrat de service avec Advantech Service afin d'effectuer toutes les réparations. Autrement, le fonctionnement adéquat de l'appareil serait compromis.

Avertissement! Puisqu'il y a un risque de décharge électrique, n'enlevez jamais le couvercle de l'appareil lorsqu'il fonctionne ou s'il est branché à une prise d'alimentation.



4. Faites vérifier l'équipement par un technicien de service si une des situations suivantes survient:
 - Le cordon d'alimentation ou la prise est endommagé.?
 - Du liquide a pénétré dans l'équipement.?
 - L'équipement a été exposé à de l'humidité.
 - L'équipement ne fonctionne pas adéquatement ou vous ne pouvez pas le faire fonctionner selon les instructions du guide d'utilisation.
 - L'équipement a chuté et a été endommagé.?
 - L'équipement présente des signes évidents de bris.

5. Débranchez cet équipement de la prise d'alimentation avant de le nettoyer. Utilisez un chiffon humide. N'utilisez pas de détergent liquide ou en aérosol pour nettoyer cet équipement et gardez-le loin de l'humidité.

ATTENTION! *Afin d'éviter les courts-circuits et, conséquemment, endommager l'appareil, évitez que des liquides de viennent en contact avec l'appareil. Si des liquides sont déversés accidentellement sur l'appareil, mettez-le hors usage le plus tôt possible et communiquez avec le technicien de service afin de s'assurer que la sécurité des patients n'est pas compromise.*

6. Placez cet équipement sur une surface solide pendant l'installation. La chute de l'appareil peut l'endommager. Pour les équipements branchés, la prise d'alimentation doit être près de l'appareil et doit être facilement accessible.

ATTENTION! *Pour éviter la surchauffe, n'obstruez pas les grilles et ne placez pas l'appareil dans un endroit exposé aux rayons du soleil ou près d'un calorifère.*

7. Assurez-vous que la source d'alimentation est adéquate avant de brancher l'équipement à la prise d'alimentation. Placez le cordon d'alimentation loin des aires de circulation. Ne posez aucun objet sur le cordon d'alimentation. Si cet équipement n'est pas utilisé pour une longue période de temps, débranchez-le de la source d'alimentation afin d'éviter qu'il soit endommagé par de la surtension transitoire.

ATTENTION! *Ne gardez pas cet équipement dans un environnement non contrôlé où la température est inférieure à -20 °C (-4 °F) ou supérieure à 60 °C (140 °F). Autrement, l'équipement pourrait être endommagé.*

8. Si l'horloge de votre ordinateur n'est pas exacte ou si la configuration du BIOS a été remise à sa valeur par défaut, la pile peut être déchargée.

ATTENTION! *L'indicateur de charge de la pile n'est pas compris avec cet appareil. Il sera inclus avec l'ensemble du système final et sera présenté avec le système complété.*

9. Une installation inadéquate du montage VESA peut entraîner des blessures graves! L'installation du montage VESA doit être effectuée par un technicien professionnel. Veuillez communiquer avec le technicien de service ou avec votre détaillant si vous désirez obtenir ce service. La procédure détaillée de fonctionnement est décrite dans l'annexe A.
10. Classification:
 - 1). Classe I
 - 2). Aucune pièce applicable
 - 3). Fonctionnement en continu
 - 4). Pas une catégorie AP ou APG

Avertissement! *L'utilisation de cet appareil n'est pas recommandée en présence de mélange de vapeurs anesthésiques inflammable avec de l'air, de l'oxygène, de l'oxyde nitreux ni avec les systèmes d'entretien de la vie.*

- 
11. Protection de l'environnement: suivez les exigences nationales en matière de l'élimination de cet appareil.
 12. Entretien: pour entretenir et nettoyer les surfaces adéquatement, utilisez uniquement des produits approuvés ou nettoyez à sec.

ATTENTION! *Lors de l'entretien de l'appareil, utilisez toujours des pièces de rechange conformes aux exigences d'Advantech. Advantech Digital Healthcare ne peut garantir ni approuver la performance sécuritaire des pièces de rechange fournies par un tiers pour être utilisées avec notre appareil médical.*

- 
13. Assurez-vous que le patient ne vient pas en contact avec SIP/SOP en même temps.
 14. Lorsque des appareils électriques sont mis en réseau, l'utilisateur est responsable de garantir que le système résultant est conforme aux exigences des normes suivantes:
 - EN 60601-1 (IEC 60601-1) Équipement médical électrique
Partie 1: Exigences générales de sécurité
 - EN 60601-1-1 (IEC 60601-1-1) Équipement médical électrique
Partie 1-1: Exigences générales de sécurité
Norme collatérale: Exigences de sécurité pour les systèmes médicaux électriques
 - EN 60601-1-2 (IEC 60601-1-2) Équipement médical électrique
Partie 1-2: Exigences générales de sécurité
Norme collatérale : Compatibilité électromagnétique : Exigences et tests
 15. Un équipement accessoire branché à des interfaces analogues ou numériques doit être conforme aux normes IEC nationales correspondantes (c.à.d IEC 60950 pour les équipements de traitement de données, IEC 60065 pour les équipements de vidéo, IEC 61010-1 pour les équipements de laboratoire et IEC 60601-1 pour les équipements médicaux.)
 16. En outre, toutes les configurations du système doivent être conformes à la norme IEC 60601-1-1. Quiconque qui branche un équipement additionnel à la sortie ou à l'entrée du signal est réputé configurer un système médical. Conséquemment, il est responsable de s'assurer que le système est conforme avec les exigences de la norme IEC 60601-1-1. Cet appareil est conçu pour être branché exclusivement avec un équipement certifié IEC 60601-1 dans l'environnement du patient et à un équipement certifié IEC 60XXX à l'extérieur de l'environnement du patient. En cas de doute, consultez la division des services techniques ou votre représentant local.

ATTENTION! *Utilisez un appareil de montage approprié afin d'éviter les blessures.*



17. La fiabilité de la mise en terre ne peut être garantie que si l'équipement est branché à une prise certifiée « Hôpital uniquement » ou « Grade-hôpital ».

18. Utilisez un cordon d'alimentation homologué de calibre correspondant à la tension du secteur et qui est conforme aux normes de sécurité propres à votre pays.
Protection de l'environnement
Suivez les exigences nationales en matière de l'élimination de cet appareil.
19. AVERTISSEMENT – Ne modifiez pas cet équipement sans l'autorisation du fabricant.
20. AVERTISSEMENT – Afin d'éviter le risque de décharges électriques, cet équipement doit être branché à une prise d'alimentation équipée d'une mise à terre.
21. MISE EN GARDE : Cet adaptateur Sinpro HPU101-107 est une pièce intégrale de l'appareil médical.
22. Retirez le cordon d'alimentation pour éteindre l'appareil.

Explanation of Graphical Symbols



IEC 60878 and ISO 3864-B.3.6: Warning: dangerous voltage



ISO 7000-0434: Caution, consult accompanying documents.



ISO 7000-1641: Follow operating instructions or consult instructions for use.



IEC 60417 -5009: stand-by.



IEC 60417-5032: Alternating current



IEC 60417-5031: Direct current.



IEC 60417-5021: Equipotentiality.



ISO 7010-M002: Follow instructions for use

Disposing of the product

Within the European Union



EU-wide legislation, as implemented in each member state, requires that waste electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes monitors and electrical accessories, such as signal cables or power cords. When you need to dispose of your display products, please follow the guidance of your local authority, or ask the shop where you purchased the product.

The mark on electrical and electronic products only applies to the current EU member states.

FCC Class B

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 when the equipment is operated in a residential environment. This equipment generates uses and can radiate radio frequency energy. If not installed and used in accordance with this user's manual, it may cause harmful interference to radio communications.

Note that even when this equipment is installed and used in accordance with this user's manual, there is still no guarantee that interference will not occur. If this equipment is believed to be causing harmful interference to radio or television reception, this can be determined by turning the equipment on and off. If interference is occurring, 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 the receiver
- Connect the equipment to a power outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

Warning! Any changes or modifications made to the equipment which are not expressly approved by the relevant standards authority could void your authority to operate the equipment.



Avertissement! Toute modification apportée à l'équipement sans l'approbation explicite de l'autorité de normalisation compétente pourrait annuler votre droit à utiliser l'équipement.



List of Accessories

Before installing your Point of Care Terminal, ensure that the following materials have been received:

- POC-621 SERIES Point-of-Care Terminal
- Mounting kits and a packet of screws
- 1 x VESA mounting note
- 1 x China RoHs note

Warning! *No user serviceable parts inside, refer servicing to qualified personnel.*



Only the accessories indicated on the list of accessories above have been tested and approved to be used with the device. Accordingly it is strongly recommended that only these accessories be used in conjunction with the specific devices. Otherwise the correct functioning of the device may be compromised.

Avertissement! *Aucune pièce réparable par l'utilisateur. Pour l'entretien, adressez-vous à des personnes qualifiées. Seuls les accessoires décrits dans la liste ci-dessus ont été vérifiés et approuvés pour être utilisés avec cet appareil. Conséquemment, il est fortement recommandé d'utiliser ces accessoires spécifiquement avec cet appareil. Autrement, le fonctionnement adéquat de l'appareil serait compromis.*

Additional Information and Assistance

Contact your distributor, sales representative, or Advantech's customer service center for technical support if you need additional assistance. Please have the following information ready before you call:

- Product name and serial number
- Description of your peripheral attachments
- Description of your software (operating system, version, application software, etc.)
- A complete description of the problem
- The exact wording of any error messages
- This equipment is a source of electromagnetic waves. Before use please, make sure that there are not EMI sensitive devices in its surrounding which may malfunction therefore.

Environmental protection

- Follow national requirements to dispose of unit.

Manufacturer

Advantech Co., Ltd.

No.1, Alley 20, Lane 26, Rueiguang Road Neihu District, Taipei,
Taiwan 114, R.O.C.

TEL: (02) 2792-7818

Distributed in Europe by:

Advantech Service IoT GmbH

Industriestraße 15

82110 Germering

Germany

Phone: +49 (0) 89 41 11 91-0

Fax: +49 (0) 89 41 11 91-900

Email: contact@advantech.de

URL: <http://advantech-service-iot.eu>

Visit the Advantech websites at www.advantech.com or www.advantech.com.tw if you need more information.

Notice: It is recommended to install the appropriate software, if have any question, please contact the manufacturer for further assistance.

Notice: To prevent unauthorized access, it is recommended to install suitable anti-virus software or do not connect to unsafe external networks.

In case of serious incident that has occurred, please contact the manufacturer and local authorities immediately.

Contents

Chapter 1	General Information	1
1.1	Introduction	2
1.2	Specifications	2
1.3	Dimensions	5
	Figure 1.1 Dimensions of the POC-621	5
	Figure 1.2 POC-621 Hot Swappable Battery Pack Dimensions	5
	Figure 1.3 POC-621 with Smart Card Reader Dimensions	6
	Figure 1.4 POC-621 with RFID & Camera Acc. Dimensions	6
	Figure 1.5 POC-621 VESA Mounting	7
	Figure 1.6 POC-621 Series Front Panel	7
1.3.1	Optional Modules	8
1.3.2	Cleaning and Disinfecting the Solution	8
1.4	Operating Principle	9
1.5	Intended User Profile	9
1.6	Front Bezel Button	10
Chapter 2	System Setup	13
2.1	A Quick Tour of the POC-621 Series	14
2.1.1	Front view	14
	Figure 2.1 Front View of the Point-of-Care Terminal	14
2.1.2	Rear View	14
	Figure 2.2 Rear View of the Point of Care Terminal	14
	Figure 2.3 Rear View of Multi I/O ports (AC-in model)	15
	Figure 2.4 Rear View of Multi I/O ports (DC-in model)	15
2.2	Installation Procedures	16
2.2.1	Connecting the Power Cord (DC model)	16
	Figure 2.5 Connecting the Power Cord	16
2.2.2	Connecting the DCIN	16
2.2.3	Connecting the ACIN	17
2.2.4	Connecting the Ground pin	17
	Figure 2.6 POC-621 Equipotential Terminal Pin	17
	Figure 2.7 Grounding Cable with Connector	18
2.3	Running the BIOS Setup Program	18
2.4	Installing System Software	19
2.5	Installing the Drivers	19
2.6	Troubleshooting	20
2.6.1	POC not Power ON	20
2.6.2	Adapter Power LED off	20
2.6.3	POC System Powers on but Windows Fails to Boot	21
2.6.4	The AC Power is Going in and all the Indicators are on, but the System Doesn't Power on	21
2.6.5	No Charge	21
2.7	EMC Declaration	22
Chapter 3	Hot Sw. Battery Pack Operation	27
3.1	Installing Hot Swappable Battery Packs	28
3.2	Battery Pack Charge Capacity Indicator	31
3.3	Hot Swapping Battery Pack Battery Capacity Indicator and Windows Battery Information	32
3.4	Regular use of Battery Pack	33
3.5	Battery Pack Storage	33

3.6	Battery Operation Sequence.....	33
Chapter 4	Operation and Safety	35
4.1	General Safety Guide	36
4.2	Thermal Dissipation	36
4.3	Disconnect the Power	37
4.4	Proper Handling	38
4.5	Battery Warnings	38
4.6	Battery Safety Instruction.....	39
4.7	Emergency Scenarios	43
4.8	Battery Storage and Transportation.....	44
4.9	Battery Disposal.....	45
Appendix A	POC-621 Series VESA Mounting	47
A.1	Install VESA Mounting	48
	Figure A.1 VESA Mounting	48
Appendix B	Driver Installation.....	49
B.1	Driver Installation	50
Appendix C	PCM-8722 Connector Map.....	51
C.1	PCM-8722 Connector Map	52
Appendix D	PCM-8722 Jumper Settings.....	55
D.1	PCM-8722 Jumper setting	56
	Table D.1: CN3 ME Manufacturing Mode	57
	Table D.2: CN5 Clear CMOS.....	57
	Table D.3: CN6 (Not Install) Clear ME	57
	Table D.4: CN8 (Not Install) System Reset	57
	Table D.5: CN13 LVDS Voltage Setup	58
	Table D.6: CN40 Power Button (Internal Test Only).....	58
	Table D.7: PCN4 Power Debug (Reserved)	58
	Table D.8: SW1 Board Setup.....	58
	Table D.9: SW1 Pin 4 Speaker Function	59
	Table D.10: SW2 Panel Resolution/Type Setup.....	59
Appendix E	Advanced BIOS Functions	61
E.1	Advanced BIOS Functions	62

Chapter 1

General Information

1.1 Introduction

Advantech POC-621 is a multimedia Intel® Core™ i7/i5/Celeron processor solution designed for mobile computing as a Point-of-Care terminal (POC). It is a PC-based system with 21.5" wide screen TFT LCD display, HDMI out, dual on-board 10/100/1000 PCIE Ethernet controllers, and 1 x LAN port. It supports Intel AMT11 functions. It has 2 x COM ports, 4 x USB 2.0 ports, and 1 x 24-bit stereo audio controller. With an optional 2.5" SATA drive, POC-621 is a user-friendly computer. POC-621 resists spills and water damage, and ensures dust resistance with its protected LCD and sealed ports.

Intended use — The POC-621 is intended to serve as a POC for integration within hospital systems. POC-621 is designed for general purpose medical computing, data collection and for displaying information in hospital environments. It should not be used as a life-support system.

The latest version of this user manual is available for download from <http://support.advantech.com.tw/support/>

1.2 Specifications

POC-621 series' comprises two models:

Model Name	Model Difference
POC-621-11	DC-In model (with external Sinpro's adapter)
POC-621-01	AC-In model (with internal FSP's PSU)

Computing System	CPU	Intel® Core™ i7-8665UE (8M cache, up to 4.40 GHz) Intel® Core™ i5-8365UE (6M cache, up to 4.10 GHz)
	Memory	8GB DDR4 (supports up to 32GB DDR4 SODIMM)
	Graphics Controller	Intel UHD Graphics 620/610
Display	Display Size	21.5" wide TFT color LCD (16:9)
	Type	IPS
	Max. Resolution	1920x1080 (H x V)
	Max. Colors	16.7 M colors (6-bits+A-FRC)
	Pixel Pitch (um)	247.5 x 247.5
	Viewing Angle	178/178°
	Luminance	250 cd/m ²
	Backlight	LED
	LCD MTBF	30,000 Hours
	Contrast Ratio	1000:1 (Typical)

I/O Ports	USB 3.2 Gen 2 (Type A),	2 x (USB 3.2 Gen 2)
	USB 3.2 Gen 2 (Type C)	1 x (with display function via USB type C alternative mode)
	USB 2.0 Type A	4 x
	Mic in/ Headphone out	1 / 1
	LAN isolation, 1.5KV	2 x
	HDMI	1 x
	Serial Ports	2 x RS-232(isolated 1.5KV) serial port
	DCIN	Default 18V DC IN
Power Input	DC/AC	DC model: 18V, max. 100W/AC model: 100 ~ 240V, max. 150W (choose either DC or AC model)
Authentication Solution (Choose 1)	RFID Reader	Optional (choose either RFID or smart card reader)
	Smart Card Reader	Optional (choose either RFID or smart card reader)
Battery Solutions (Choose 1)	Backup Battery**	Optional (choose either backup battery or PCIe x4)
	Hot-Swapping Battery Module	Optional with 2 x batteries (choose either backup battery or hot swapping battery module)
Certification	EMC & Safety	Medical CE, FCC (IEC 60601-1-2, 4th edition) EN 60601-1 Compliance UL 60601-1
Environment	Operating Temperature	0 ~ 35 °C/32 ~ 95 °F
	Storage/transportation Temperature	0 ~ 50 °C/32 ~ 122 °F
	Shock Resistance	20G peak acceleration (11ms duration) 10G with Hot swapping battery pack
	Humidity	Operating: 10% ~ 90%@40°C non-condensed, Storage/transportation: 5% ~ 90%@40°C non-condensed,
	Pressure	700-1013 hPa (Operation) 700-1060 hPa (Storage) 700-1060 hPa (Transportation)
Physical Characteristics	Dimensions (W x D x H)	523 x 356 x 62 mm (20.59 x 14.02 x 2.44 in)
	Weight (Bare system)	6.29 kg/13.86 lb
	VESA Mount	100 x 100 mm, 75 x 75 mm/3.93 x 3.93 in, 2.9 x 2.9 in

Optional Configuration	Operating System	Windows 10 IoT Ent (64 bits only), Linux (support by request)
	Memory	Up to 32GB DDR4 SODIMM x 2
	Primary Storage	NVME SSD 128/ 256G/ 512GB or 1TB (M.2 2280, PCIe Interface)
	Secondary Storage	1 x 2.5" SATA SSD(2 nd storage) optional
	WLAN	Intel Wireless-AC9260 or Intel Dual Band Wireless-AC 8265
	Bluetooth	5.1/ 4.2
	RFID	RFIDEAS OEM-7522AXU (Support RFID Frequency 13.56MHz, Support Card type: HID iCLASS, ISO 14443A, MIFARE ®, ISO 15693, NFC 1 (Topaz), FeliCa (NFC 3), ISO 14443B, CEPAS, MIFARE ® DESFire ®) Optional (either RFID or Smart Card, choose one)
	Smart Card	Smart Card Reader. Optional (either RFID or Smart Card, choose one)
	Backup Battery	Internal single battery pack (POC-IPSM90B, Li-ion 8400mAh 10.8V 90.72Wh 3S3P). Optional (either backup battery or Hot Swapping Battery Module, choose one)
	Hot swapping Battery module	Optional with 2 x batteries (choose either backup battery or hot swapping battery module)
	Camera	5MP, Auto Focus
	TPM 1.2/2.0	TPM 2.0 (default via firmware)
	Touch Panel	21.5", Default clear glass/Optional AR/ Optional AG Coating

1.3 Dimensions

Dimensions: 523 x 356 x 62 mm; 20 x 14 x 2.44 in

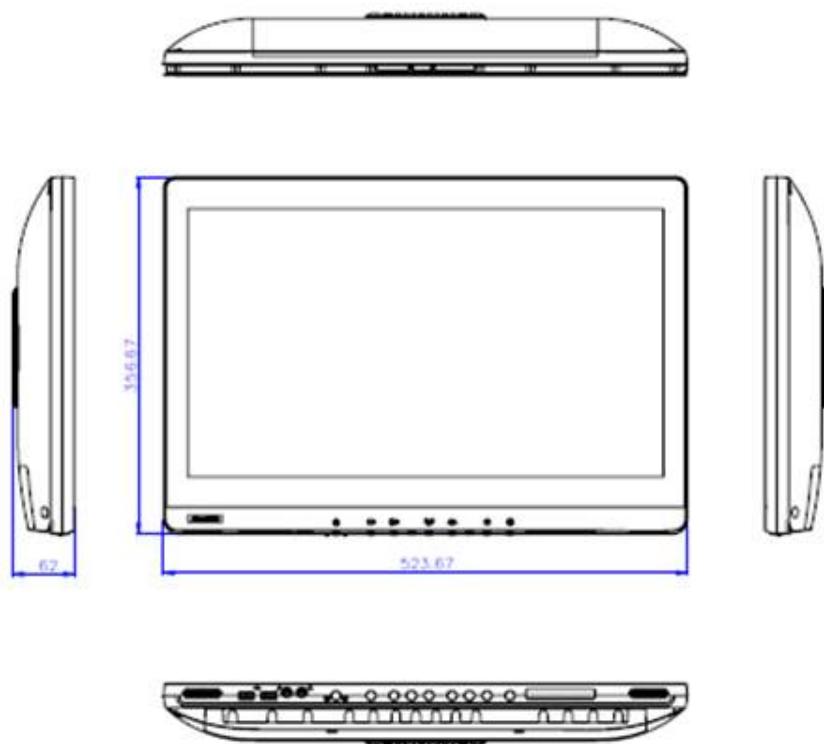


Figure 1.1 Dimensions of the POC-621

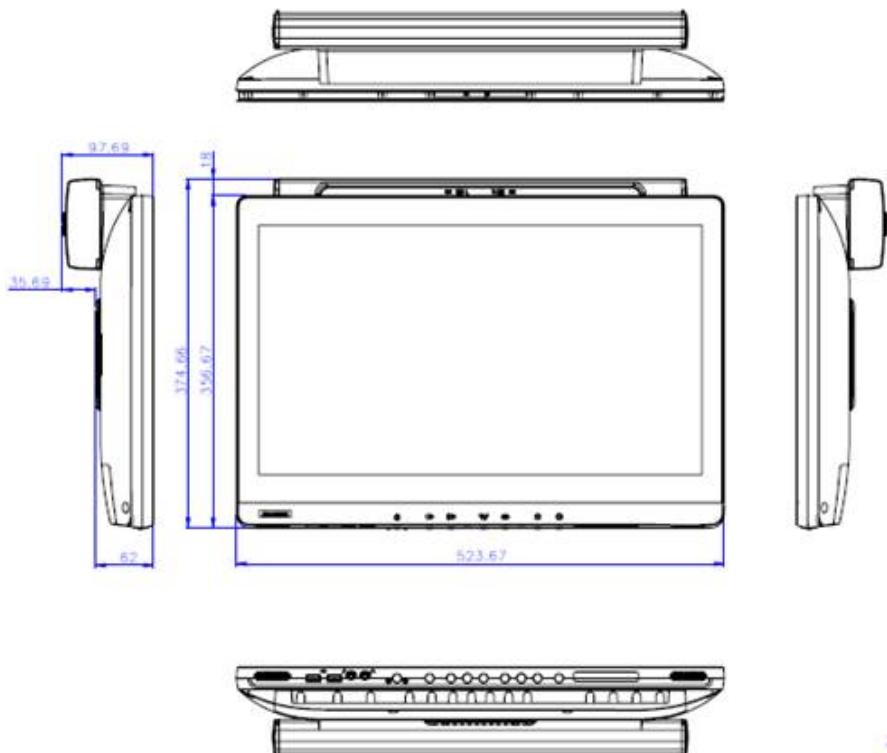


Figure 1.2 POC-621 Hot Swappable Battery Pack Dimensions

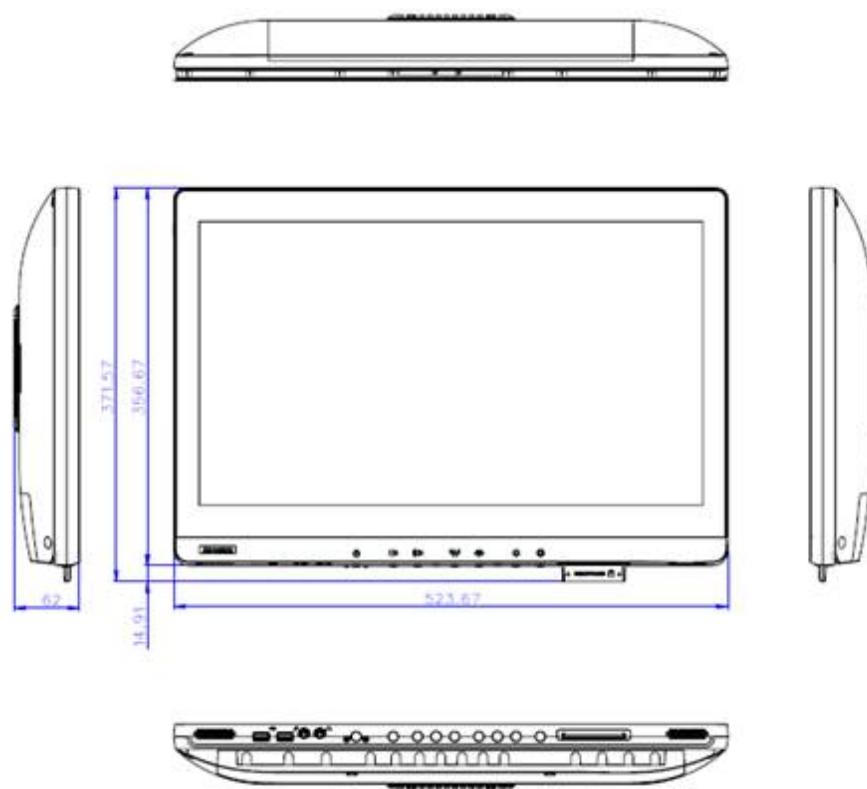


Figure 1.3 POC-621 with Smart Card Reader Dimensions

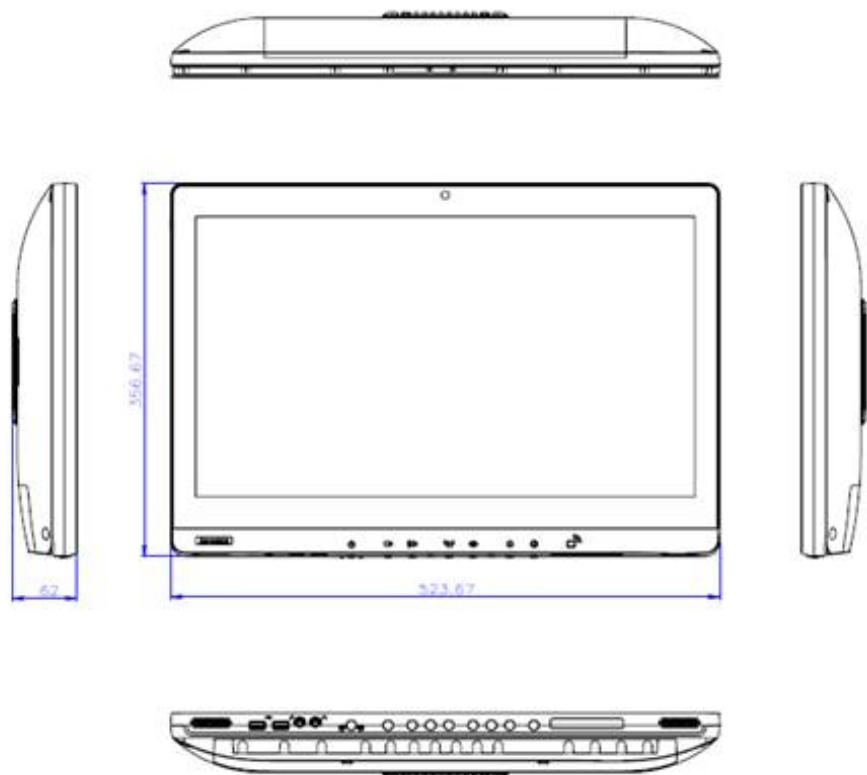


Figure 1.4 POC-621 with RFID & Camera Accessory Dimensions

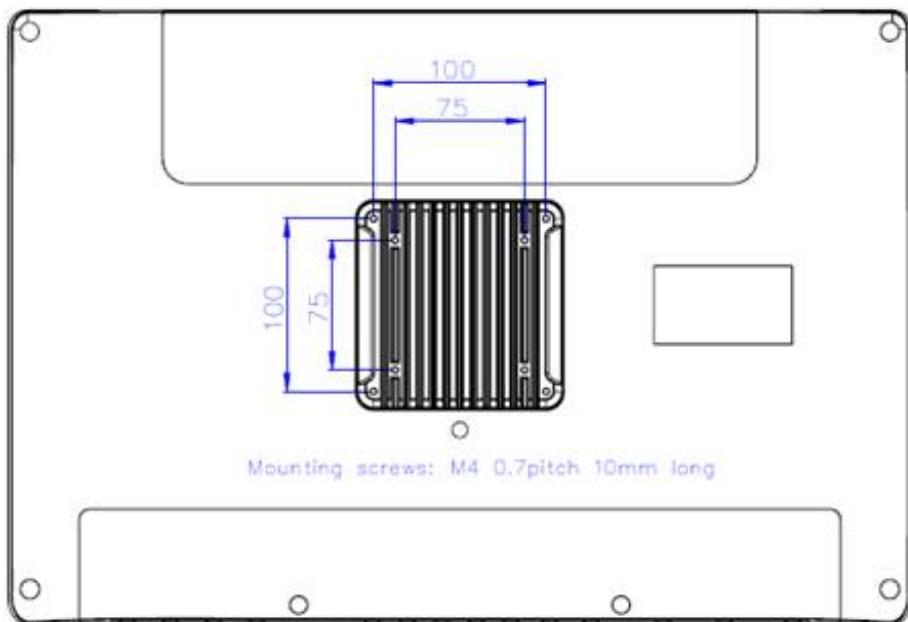


Figure 1.5 POC-621 VESA Mounting

VESA Mounting: 75 x 75 mm; 100 x 100 mm; 3.93 x 3.93 in, 2.9 x 2.9 in
 Mounting screws: M4, 0.7pitch, 10mm long

Warning! Use suitable mounting apparatus to avoid risk of injury. This solution should be mounted by trained and authorized personnel with adequate allowances for quality of materials used to make the connection



Avertissement! Utilisez un appareil de montage approprié pour éviter tout risque de blessure, il doit être monté par un personnel formé et autorisé sur des tolérances adéquates pour la qualité des matériaux utilisés pour effectuer la connexion

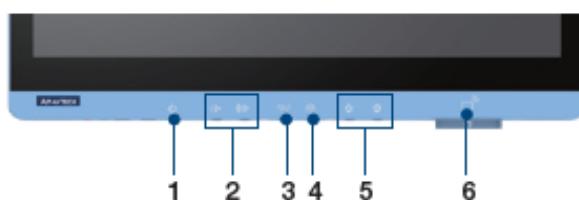


Figure 1.6 POC-621 Series Front Panel

- (1) Power
- (2) Volume Up/Down
- (3) Touchscreen Status Control
- (4) Read Light Control
- (5) Brightness Decrease/Increase
- (6) RFID or Smart Card Reader (Optional)*
RFID or Smart Card Reader - choose 1

1.3.1 Optional Modules

- Memory: Up to 32GB DDR4 SODIMM x 2
- Primary Storage: NVME (M2 2280, PCIe Interface)
- 2.5" SATA SSD
- Wi-Fi and Bluetooth module: Intel Wireless-AC9260, Intel Dual Band Wireless-AC 8265
- RFID module: RFIDEAS OEM-7522AXU
- Smart Card
- Li-ion Battery 8400mAh 10.8V 190.72Wh 3S3P
- Backup battery: Optional (choose either 1 x battery or PCIe x4)
- Hot swappable battery pack: Optional with 2 x batteries (choose either backup battery or hot swapping battery module)
- Camera: 5MP Auto Focus
- Touchscreen: Optional AR/AG process

Some of the above optional modules are mutually exclusive to each other. Contact Advantech for further details.

1.3.2 Cleaning and Disinfecting the Solution

The POC may become dirty during and should be cleaned regularly.

Steps:

1. Prepare cleaning water.
2. Wipe the POC with a clean cloth that has been moistened in the cleaning solution.
3. Wipe thoroughly with a clean cloth.

Caution!



- *Do not immerse or rinse the POC or its peripherals. If you accidentally spill liquid on the device, disconnect the unit from the power source. Contact your IT support department regarding the continued safety of the unit before placing it back in operation*
- *Do not spray cleaning agent on the chassis.*
- *Do not use disinfectants that contain phenol.*
- *Do not autoclave or clean the POC or its peripherals with strong aromatic, chlorinated, ketone, ether, or ether solvents, sharp tools or abrasives. Never immerse electrical connectors in water or other liquids.*

- ATTENTION!**
- N'immergez pas et ne rincez pas le POC et ses périphériques. Si vous déversez accidentellement un liquide sur l'appareil, débranchez-le de la source d'alimentation. Communiquez avec votre division de soutien TI concernant la sécurité de l'appareil avant de le remettre en service. N'utilisez pas un produit en aérosol pour nettoyer le boîtier.
 - N'utilisez pas de désinfectant contenant du phénol.
 - Ne désinfectez pas l'ordinateur et ses périphériques dans un autoclave et ne les nettoyez pas avec une substance aromatique ou chlorée, une cétone, un éther ou un autre solvant ni avec des outils tranchants ou abrasifs. N'immergez jamais les connecteurs électriques dans de l'eau ou dans tout autre liquide.



1.4 Operating Principle

The device provides input through a touch panel & hard keys located on its bottom. It provides input for accessories via USB ports or its LAN/WLAN connections. The device computes the input data with its processing unit and then outputs the generated data to an LCD panel, accessories, or other devices through its I/O ports or through its LAN/WLAN connections. This device is able to store data in its storage. When the device is turned off it can still maintain data in the storage memory units.

1.5 Intended User Profile

Intended user profile:

- Age: 18 to 65
- Weight: not relevant
- Health: not relevant
- Nationality: Global
- Patient state: the patient should not be the operator.
- Part of the body or type of tissue applied to or interacted with: hands and fingers, expected contact time shall be less than 1 min.
- Education level: at least 8 years intensive reading experience (school)
- Knowledge:
 - Minimum – read and understand “westernized Arabic” numerals when written in Arial font
 - can distinguish: every parts of body as described in user manual
 - trained and authorized by manufacturer only.
- To be considered as trained and authorized, they must complete the training course of the manufacturer; see document number xxxxx for qualification method, when considered necessary by the manufacturer, technician shall be called back for retraining and annual training is also considered necessary.
- Language understanding: English, whenever other languages are required, a professional translation company shall translate and review by the manufacturer, see SOP document number: XXXXX
- Experience: Mentally and physical competent, specific medical training to understand basic knowledge for symbols.
- Permissible impairments:

- Mild reading vision impairment or vision corrected to log MAR 0,2 (6/10 or 20/32)
- One arm / hand system capable of guiding and holding device
- Average degree of aging-related short term memory impairment
- Impaired by 40% resulting in 60% of normal hearing at 500 Hz to 2 kHz

1.6 Front Bezel Button

The POC system front button function description

Front button map



Button description:

Power button		Press this button to power the system on or off. When the system ON, this icon will become green color. And LED off when system off.
Reduce volume		Press this button to reduce speaker and headphone volume
Increase Volume		Press this button to increase speaker and headphone volume
Touch disable		Press this button to disable/enable touch function. When touch function enable, this icon will become green color. When touch function is disabled, this LED off.
Read light		Press this button to enable/disable read light.
Reduce brightness		Press this button to reduce LCD backlight brightness
Increase brightness		Press this button to increase LCD backlight brightness

Combination button:

Backlight off function is a special function. When you press both reduce brightness and increase brightness buttons for half a second, the LCD backlight will turn off. If you press both buttons for half second again; LCD backlight will turn back on.

When the backlight is off, the POC system is still running. It will not impact any program operating.

This backlight off function can be used in hospital environments.

If the operator needs to check the photo in a dark environment, the operator can turn off the backlight quickly to prevent spreading too much light.

The operator can turn off the backlight at night to prevent disturbing patient's sleep.

This backlight off event will resume backlight automatically following system shutdown and system activation.

Chapter 1 General Information

Chapter 2

System Setup

2.1 A Quick Tour of the POC-621 Series

Before you start to set up the POC-621 take a moment to become familiar with the locations and purposes of the controls, drives, connection, and ports. These are illustrated in the figures below.

When you place the POC-621 Series upright on the desktop, its front panel appears as shown in the following figure — Figure 2.1.

2.1.1 Front view

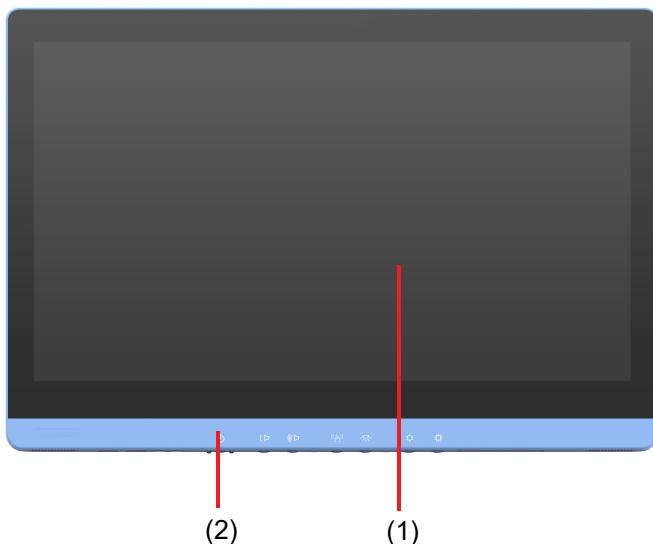


Figure 2.1 Front View of the Point-of-Care Terminal

Front Bezel view

- (1) LCD panel with Touch Screen module
- (2) Power symbol w/ indicator light

2.1.2 Rear View

When you turn the Point of Care Terminal around and look at its rear cover, the sunken I/O section can be found at the bottom of the panel PC, as shown in Figures 2.2 and 2.3. (The I/O section includes various I/O ports — like serial ports, a VGA port, an Ethernet port, USB ports, etc.)

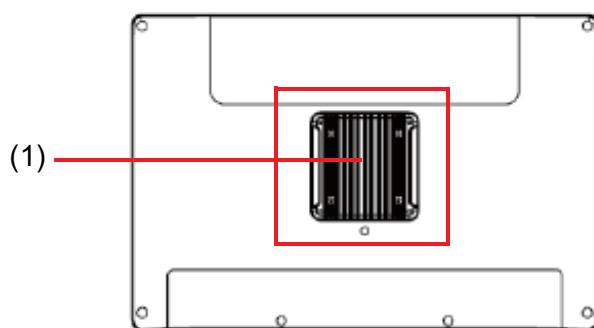
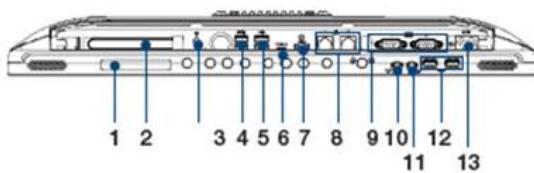
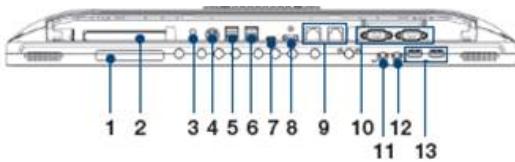


Figure 2.2 Rear View of the Point of Care Terminal



- | | | |
|-----------------------------------|-------------------------|-----------------|
| 1. RFID or smart card reader slot | 6. 1 x USB 3.2 | 11. Mic-in |
| 2. PCIe x4 slot | 7. HDMI | 12. 2 x USB 2.0 |
| 3. Equipotential terminal pin | 8. 2 x Gigabit Ethernet | 13. AC-in |
| 4. 2 x USB 3.2 | 9. 2 x COM (RS-232) | |
| 5. 2 x USB 2.0 | 10. Headphone-out | |

Figure 2.3 Rear View of Multi I/O ports (AC-in model)



- | | | |
|-----------------------------------|-------------------------|-------------------|
| 1. RFID or smart card reader slot | 6. 2 x USB 2.0 | 11. Headphone-out |
| 2. PCIe x4 slot | 7. 1 x USB 3.2 (Type C) | 12. Mic-in |
| 3. Equipotential terminal pin | 8. HDMI | 13. 2 x USB 2.0 |
| 4. DC-in | 9. 2 x Gigabit Ethernet | |
| 5. 2 x USB 3.2 (Type A) | 10. 2 x COM (RS-232) | |

Figure 2.4 Rear View of Multi I/O ports (DC-in model)

Note!

The equipotential terminal needs to be connected to a ground in the hospital before system boot to protect the operator and the system.



2.2 Installation Procedures

2.2.1 Connecting the Power Cord (DC model)

The POC-621 can only be powered by a DC adapter (SINPRO Model no.HPU101-107). Be sure to always handle the power cords by holding the plug ends only.

Follow these procedures in the correct order:

1. Connect the female end of the power cord to the AC Adapter.
2. Connect the 3-pin male plug of the power cord to an electrical outlet.

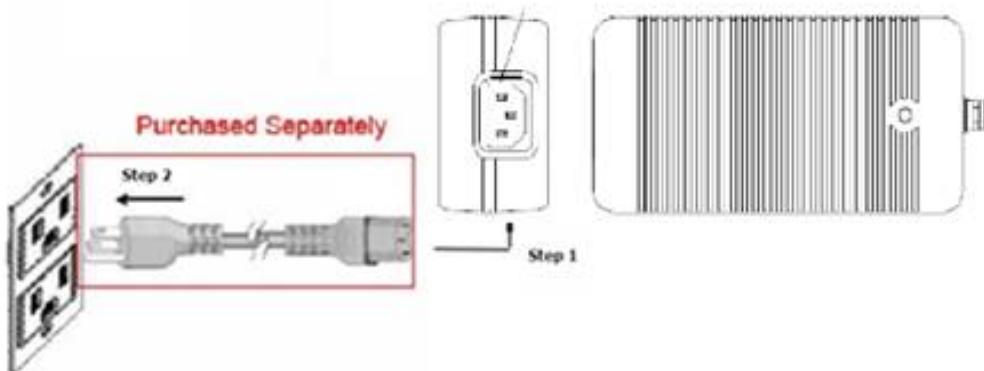


Figure 2.5 Connecting the Power Cord

2.2.2 Connecting the DCIN

AC Adapter output DCIN plug output the DC power for POC system.

Please plugin to POC DCIN.

Caution! Adapter DCIN plug has specific direction. Please align the plug and DCIN connector correctly.



Warning! Miss direction plug-in may damage the POC system or adapter.



ATTENTION! La prise DCIN de l'adaptateur a une direction spécifique.
Veuillez aligner correctement la fiche et le connecteur DCIN.



AVERTISSEMENT! Le plugin Miss direction peut endommager le système POC ou l'adaptateur.



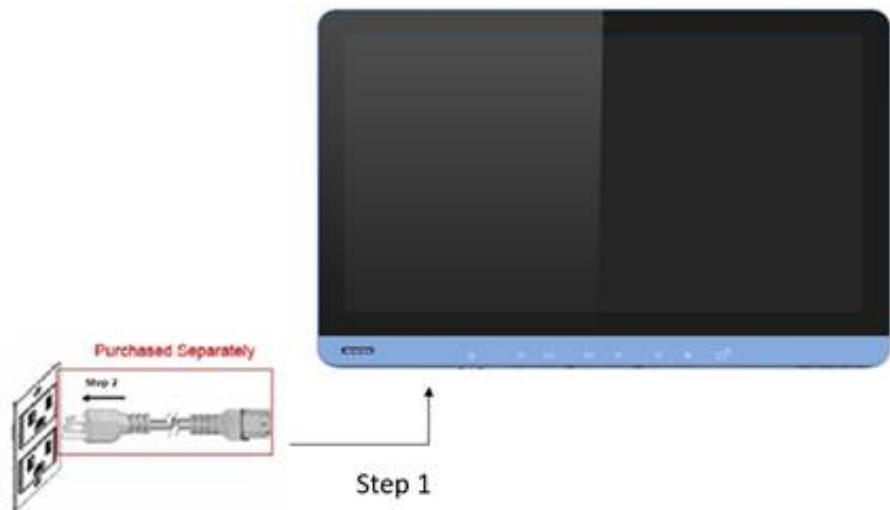
2.2.3 Connecting the ACIN

The POC-621-01 SERIES can only be powered by AC internal power (FSP Model no. FSP150M-K24-18).

Be sure to always handle the power cords by holding the plug ends only.

Follow these procedures in order:

1. Connect the female end of the power cord to AC in.
2. Connect the 3-pin male plug of the power cord to an electrical outlet.



2.2.4 Connecting the Ground pin

1. System ready and find the Equipotential Terminal on rear side of POC. An Equipotential Terminal is provide to optionally connect to a hospital ground/earth system

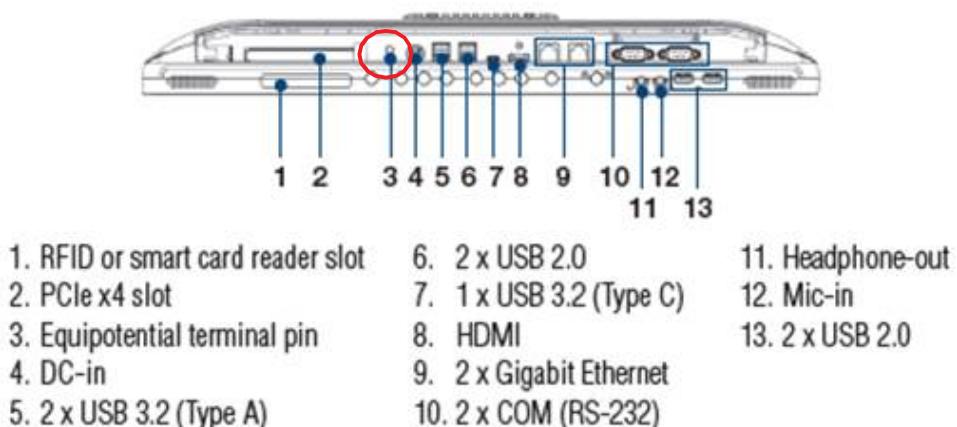


Figure 2.6 POC-621 Equipotential Terminal Pin

-
2. Prepare the grounding cable and the other terminal link to hospital ground/earth system.



Figure 2.7 Grounding Cable with Connector

3. Grounding cable plug with POC-621 Equipotential Terminal (See Figure 2.7)

2.3 Running the BIOS Setup Program

Your POC-621 was probably set up and configured by your dealer prior to delivery. You may still find it necessary to use the BIOS (Basic Input-Output System) setup program to change system configuration information, such as the current date and time or your type of hard drive. The setup program is stored in read-only memory. It can be accessed either when you turn on or reset the panel PC, by pressing the "F2 or Del" key on your keyboard immediately after powering on the computer.

The settings you specify with the setup program are recorded in a special area of memory called CMOS RAM. This memory is backed up by a battery so that it will not be erased when you turn off or reset the system. Whenever you turn on the power, the system reads the settings stored in CMOS RAM and compares them to the equipment check conducted during the power on self-test (POST). If an error occurs, an error message will be displayed on screen, and you will be prompted to run the setup program.

2.4 Installing System Software

Recent releases of operating systems from major vendors include setup programs which load automatically and guide you through hard disk preparation and operating system installation. The guidelines below will help you determine the steps necessary to installing your operating system on the panel PC hard drive.

Note! Some distributors and system integrators may have already pre-installed system software prior to shipment of your panel PC.



If required, insert your operating system's installation or setup diskette into the external diskette drive until the release button pops out.

The BIOS supports system boots up directly from the flash disk. You may also insert your system installation flash disk into the USB port.

Power on or reset the system by pressing the "Del" key to boot into BIOS menu and adjust the boot device sequence.

You can also press the F12 key when booting; a bootable device popup menu will appear, you can select bootable device that you want. The point-of-care terminal will automatically load the operating system from the flash disk.

If you are presented with the opening screen of a setup or installation program, follow the instructions on screen. The setup program will guide you through the preparation of your hard drive, and installation of the operating system.

2.5 Installing the Drivers

After installing your system software, you will be able to set up the chipset, Graphics, Ethernet, and audio functions via a driver.

The standard automatic installation procedures for installing the drivers are described in Chapter 3.

The various drivers and utilities in the CD-ROM disc have their own text files which help users install the drivers and understand their functions. These files are a very useful supplement to the information in this manual.

All the drivers are can be downloaded from the Advantech website.

2.6 Troubleshooting

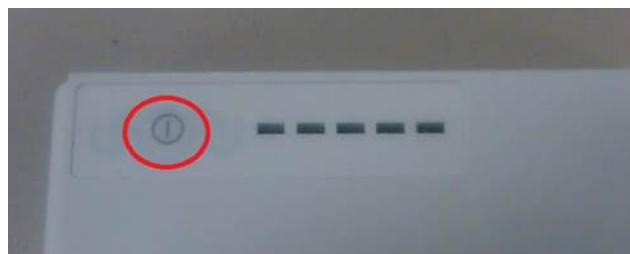
The following details events in which the system behaves abnormally. In such cases, please refer to the troubleshooting instructions below.

2.6.1 POC not Power ON.

Press the power button but no power on (Power ON Green indicator is still off)

Please check

1. Check that adapter/DCIN is plugged in properly.
2. Check that the adapter/DCIN is plugged in to the correct direction to POC DCIN Connector
3. Check that the AC power cord plug and adapter are correct
4. Check that the AC power cord is plugged into the wall inlet properly.
5. If there is no adapter plugged in (battery powered mode), please check that the battery is installed properly and then check the battery's capacity.
Please unplug the battery pack and press the capacity indicator button on the battery pack.



The illuminated LED represents the battery capacity.

	State-of-Charge
LED Green	<i>Current() > 0</i>
LED1	0%~20%
LED2	0~40%
LED3	0~60%
LED4	0~80%
LED5	0~100%

2.6.2 Adapter Power LED off

The adapter indicator's green LED remains off.

1. Check that the AC power cord is plugged into the adapter properly
2. Check that the AC power cord is plugged into the wall inlet properly.

2.6.3 POC System Powers on but Windows Fails to Boot

POC display shows a black background and some words.

1. Check that the Windows OS is installed properly.
2. Check that the BIOS boot order is set properly. Please setup the BIOS boot device using the following procedure:
 - a) Press the "Del" key at power up, into the BIOS Menu.
 - b) In Boot – Boot Option #1 – Select "Windows Boot Manager (Storage name)
 - c) In Save & Exit – Save Changes and Reset – Select Yes
 - d) POC system will reset and boot up.

2.6.4 The AC Power is Going in and all the Indicators are on, but the System Doesn't Power on

Both the adapter indicator green LED and POC system power on indicator green LED are on.

Please contact Advantech customer service for further support.

2.6.5 No Charge

Please check:

1. Is the battery pack installed properly? Push the pack inside the battery slot.
2. Check that the DCIN is plugged in properly
3. In battery design, the battery capacity should be under 98% to initial the charge. This design can avoid frequent charging.
In another words, if the battery capacity is 99% or 100%, the charger will not continue charging this battery.

Contact your distributor, sales representative, or Advantech's customer service center for technical support if you need additional assistance. Please have the following information ready before you call:

- Product name and serial number
- Description of your peripheral attachments
- Description of your software (operating system, version, application software, etc.)
- A complete description of the problem
- The exact wording of any error messages
- Symptoms, photos, or videos if available.

2.7 EMC Declaration

Guidance and manufacturer's declaration – electromagnetic emissions		
The model POC-621 SERIES is intended for use in an electromagnetic environment as specified below. The customer or the user of the POC-621 SERIES should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment – guidance
RF emissions CISPR 11	Group 1	The model POC-621 Series uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The model POC-621 Series is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class D	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Meet the requirements	

Recommended separation distances between portable and mobile RF communications equipment and the model POC-621 Series			
Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d = 1,2\sqrt{P}$	80 MHz to 800 MHz $d = 1,2\sqrt{P}$	800 MHz to 2,5 GHz $d = 2,3\sqrt{P}$
0,01	0,12	0,12	0,23
0,1	0,38	0,38	0,73
1	1,2	1,2	2,3
10	3,8	3,8	7,3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Guidance and manufacturer's declaration – electromagnetic immunity			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment –guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±15 kV air	±8 kV contact ±15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	±2 kV for power supply lines ±1 kV for input/output lines	Main power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV line(s) to line(s) ±2 kV line(s) to earth	±1 kV line(s) to line(s) ±2 kV line(s) to earth	Main power quality should be that of a typical commercial or hospital environment.
Interruptions and voltage variations on power supply input lines IEC 61000-4-11	Voltage Dips 0% reduction for 0.5 / 1 cycle at 50Hz 70% reduction for 25 / 30 cycle at 50/60Hz Voltage Interruptions 0% reduction for 250 / 300 cycle at 50/60Hz	Voltage Dips 0% reduction for 0.5 / 1 cycle at 50Hz 70% reduction for 25 / 30 cycle at 50/60Hz Voltage Interruptions 0% reduction for 250 / 300 cycle at 50/60Hz	Main power quality should be that of a typical commercial or hospital environment. If the user of the model POC-621 Series requires continued operation during power mains interruptions, it is recommended that the model POC-621 Series be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE UT is the A.C. mains voltage prior to application of the test level.			

Guidance and manufacturer's declaration – electromagnetic immunity			
The model POC-621 SERIES is intended for use in the electromagnetic environment specified below. The customer or the user of the model POC-621 SERIES should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	Vrms	<p>Portable and mobile RF communications equipment should be used no closer to any part of the model POC-621 Series, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> $d = 1,2\sqrt{P}$ <p>$d = 1,2\sqrt{P}$ 80 MHz to 800 MHz</p> <p>$d = 2,3\sqrt{P}$ 800 MHz to 2,5 GHz</p> <p>where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,^a should be less than the compliance level in each frequency range.^b</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2,5 GHz	V/m	

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

- a** Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the model POC-621 Series is used exceeds the applicable RF compliance level above, the model POC-621 Series should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the model POC-621 Series.
- b** Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Chapter 3

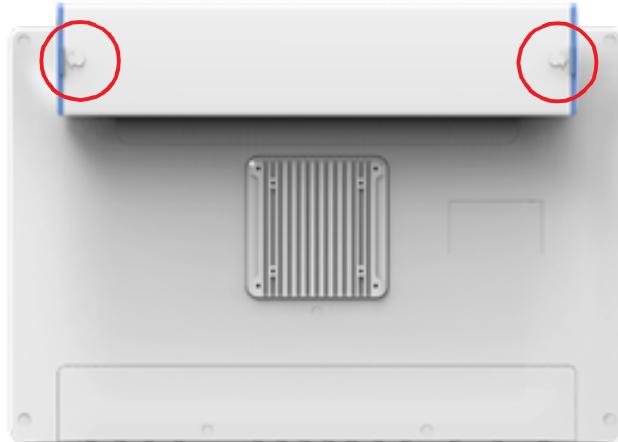
Hot Swapping Battery
Pack Operation

POC supports hot swapping battery pack options. This hot swapping battery pack could hotplug install two battery packs. This chapter describes how to install a battery and its operation.

3.1 Installing Hot Swappable Battery Packs

1. Open the battery door:

Users can access the battery slot using the arrowhead buttons (circled in red below).



1) Press the arrowhead button.



2) Pull open the door to access the battery slot.



Caution! We recommend holding the battery with both hands when inserting it into the POC-BAT-201-62 power system.



ATTENTION! Nous recommandons de tenir la batterie à deux mains lors de l'insertion dans le système d'alimentation POC-BAT-201-62.



2. Insert the battery pack:

The slot opening and battery pack features notches (circled in red below) to indicate the correct installation direction.



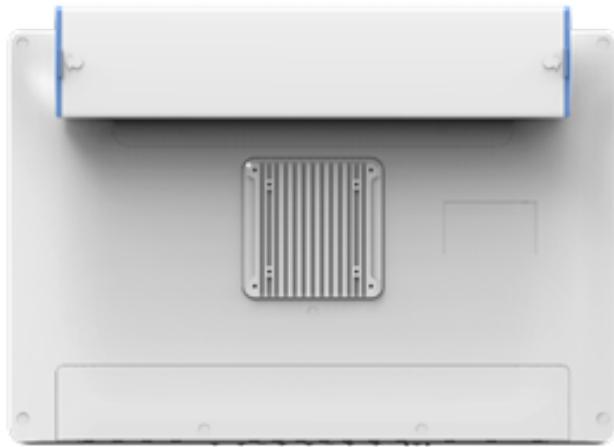
Caution! Please hold the battery with both hands when installing the battery into the slot of the backpack.



ATTENTION! Veuillez tenir la batterie à deux mains lors de l'installation de la batterie dans la fente du sac à dos.



3. Close the battery door. When the door is closed to the end, a “click” will be heard to ensure that the door closes properly.



Warning! Without close the battery door may cause the battery to drop out.



AVERTISSEMENT! Si vous ne fermez pas le couvercle de la batterie, la batterie risque de tomber.

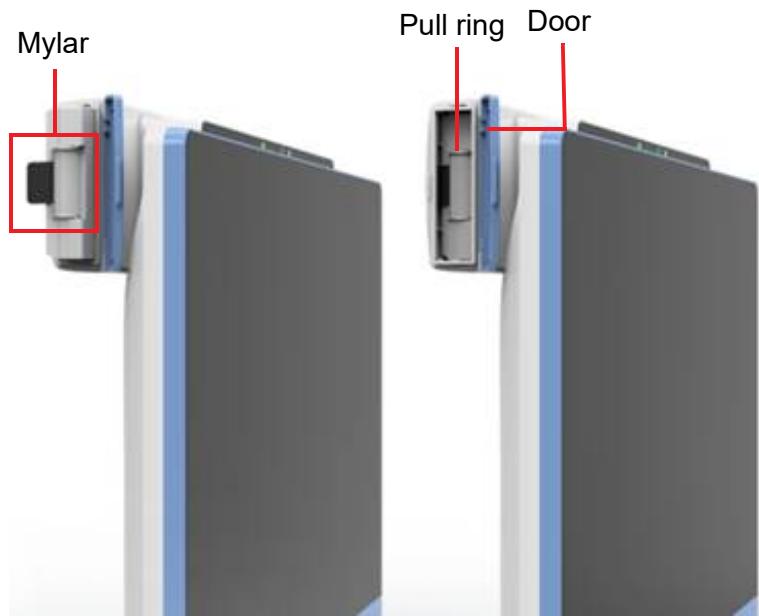


Caution! Lay the pull ring and mylar (indicated in the image below) flat in their original position before closing the door.



ATTENTION! Placez l'anneau de traction et le mylar (indiqués dans l'image ci-dessous) à plat dans leur position d'origine avant de fermer la porte.





3.2 Battery Pack Charge Capacity Indicator

Battery pack charge capacity indicator.

Press the below red circle button, and the battery pack will turn on the indicator to show its capacity percentage.



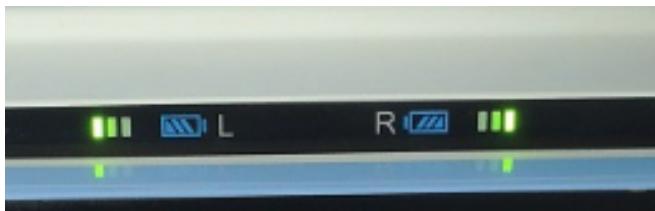
The illuminated LED represents the battery capacity.

	State-of-Charge
LED Green	<i>Current() > 0</i>
LED1	0%~20%
LED2	0~40%
LED3	0~60%
LED4	0~80%
LED5	0~100%

3.3 Hot Swapping Battery Pack Battery Capacity Indicator and Windows Battery Information

1. Hot swapping battery pack capacity indicator

The Hot swapping battery pack features an LED indicator that shows each battery charge capacity percentage.



In Discharge mode, the indicator shows the following capacity.

Battery Capacity	LED
0~10%	Flash 1 LED (0.5Hz Frequency)
11~20%	1 LED ON
21~50%	2 LED ON
51~100%	3 LED ON

In Charge mode, the indicator shows the following capacity.

Battery Capacity	LED
0~20%	1 LED ON
21~50%	2 LED ON
51~100%	3 LED ON

These LED indicators are only ON when the POC system is turned ON. The LED indicator will turn off when the POC system is turned off. This setting could save the battery's life.

2. Windows Battery Icon

The Windows battery icon shows each batteries' capacity percentage and dual battery's average capacity percentage.



Windows will assess each batteries' capacity (unit: mAh) to calculate the capacity percentage.

Install single battery capacity percentage =

$$\frac{\text{Battery remain capacity}}{\text{Battery full capacity}} * 100\%$$

Install dual battery average capacity percentage =

$$\frac{\text{Battery 1 remain capacity} + \text{Battery 2 remain capacity}}{\text{Battery 1 full capacity} + \text{Battery 2 full capacity}} * 100\%$$

3.4 Regular use of Battery Pack

Below are instructions for maintaining a healthy battery:

1. Always fully charge new batteries before first use.
2. When the battery is at a capacity lower than Windows settings low level (default: 10%), the Windows will display a low-battery notification. At this point, either replace the battery with a fully charged battery or plug in the power adapter to recharge the battery.
3. Avoid over-charging the battery. Over charging will significantly reduce the batteries' shelf life.
4. If the POC system is not in use, turn off the system to save battery power.
5. The POC system can work if either of the battery slots are occupied

3.5 Battery Pack Storage

If the POC system or battery pack is stored in a warehouse for periods of time, the following tasks must be performed:

1. Always fully charge new batteries before moving to the warehouse.
2. Before storing the battery and leaving it idle, recharge the battery to full capacity.
3. If the battery is left unused or idle for a long duration, perform a full recharge every 3 months.
4. Ensure that the POC system is switched off and double check that the power on green LED indicator is off before storage.

3.6 Battery Operation Sequence

When two batteries installed, system follow below sequence to charge/discharge battery

1. Balanced mode (Two batteries are same battery voltage):
Charge or Discharge two batteries together.
2. Un-balanced mode (Two batteries are different battery voltage):
Charge: Charge low voltage battery first. When these two battery reach same voltage, charge two batteries together.
Discharge: Charge high voltage battery first. When these two battery reach same voltage, discharge two batteries together.

Chapter 4

Operation and Safety

4.1 General Safety Guide

For your own safety and that of your equipment, always take the following precautions.

Disconnect the power plug (by pulling on the plug, not the cord), from your computer if any of the following conditions circumstances arise:

- The power cord or plug is frayed or otherwise damaged
- Any substance is spilled on the POC system
- The POC system has been dropped or the case has been damaged
- The POC system needs servicing or repair
- To clean the POC system
- To remove/install any internal parts (exclude install/took out hotswap battery pack)

4.2 Thermal Dissipation

The hole on this solution's rear cover functions as a cooling vent and outlet. These air inlets and outlets transfer heat from inside the computer to the cooler air outside. Do not block these holes/vents with any soft material.

When using your POC SERIES system, it is normal for the rear metal heatsink to get warm. This heatsink functions as a cooling surface that transfers heat from inside the computer to the cooler air outside.

Do not block this heatsink with any soft material.

To protect the battery pack from overheating, use/charge the battery in accordance with the instructions provided in the user manual.

Warning! 1. Temperatures that are too high or too low may damage the battery.



2. Do not place your POC system on a pillow or other soft material when it is on, as the material may block the airflow and cause the system to overheat.

Avertissement! 1. Si la température est trop élevée ou trop basse, vos batteries peuvent être endommagées.



2. Si la température est trop élevée ou trop basse, vos batteries peuvent arrêter la charge. La batterie peut redémarrer la charge lorsque sa température revient à une température spécifique.

4.3 Disconnect the Power

Unplugging the power cord is the only way to disconnect power completely. 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 negate the grounding plug.

Avertissement! Votre cordon d'alimentation est équipé d'une fiche de mise à la terre à trois fils (une fiche qui a une troisième broche de mise à la terre). Cette fiche s'adapte uniquement à une prise secteur mise à la terre. Si vous ne parvenez pas à insérer la fiche dans une prise parce que 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. Ne supprimez pas la fonction de la fiche de mise à la terre.

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 electric shock.

Never place anything on the system case before turning off the 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.

Avertissement! Ne poussez jamais d'objets d'aucune sorte dans ce produit à travers les ouvertures du boîtier. Cela pourrait être dangereux et entraîner un incendie ou un choc électrique dangereux.



Ne placez jamais rien sur le boîtier du système avant d'éteindre l'ordinateur.

N'allumez jamais votre ordinateur tant que toutes ses pièces internes et externes ne sont pas en place.

Faire fonctionner l'ordinateur lorsqu'il est ouvert ou qu'il manque des pièces peut être dangereux et peut endommager votre ordinateur.

4.4 Proper Handling

Handle your POC system with care. The system is made of metal, glass, and plastic; and contains sensitive electronic components. POC systems are heavy and require two hands during handling.

Hold the battery pack with both hands when installing, removing, or replacing it.

Warning! *Do not attempt to use the POC system if it is damaged (for example, the case is cracked or broken) as this may cause injury.*



Caution! 1) *Setup and install POC system on a stable work surface.*



2) *Do not push objects into the ventilation openings.*

3) *This SINPRO HPU101-107 adapter is a medical grade adapter.*

AVERTISSEMENT! *N'essayez pas d'utiliser le système POC-621 s'il est endommagé (par exemple, le boîtier est fissuré ou cassé) car cela pourrait provoquer des blessures.*



ATTENTION! 1) *Configurez et installez le système POC-621 sur une surface de travail stable.*



2) *Ne poussez pas d'objets dans les ouvertures de ventilation.*

4.5 Battery Warnings

Please read these safety instructions and warnings before using or charging the battery.

Warning! *Li-ion battery packs may explode and cause fire if defective or used incorrectly. To prevent this from happening, follow all usage instructions and safety guidelines provided in this user manual.*



AVERTISSEMENT! *Les batteries Li-ion peuvent exploser et provoquer un incendie si elles sont défectueuses ou mal utilisées. Pour éviter que cela ne se produise, suivez toutes les instructions d'utilisation et les consignes de sécurité fournies dans ce manuel d'utilisation.*

Caution! 1. *Removal of the POC system battery pack and unplugging of the power adapter will cause the connected POC system to shut down, which may result in data losses. To prevent the loss of information, always save your work and shut down the POC system via the Windows OS before removing the battery or power adapter.*



2. *Lithium batteries have a predetermined life span. Replace old batteries with new batteries when they have reached the end of their service life (the warranty is for 1 year or 300 cycles with 70% normal capacity, according to which occurs first).*

- ATTENTION!**
- 1. *Le retrait de la batterie du système POC-621 et le débranchement de l'adaptateur secteur entraîneront l'arrêt du système POC-621 connecté, ce qui peut entraîner des pertes de données. Pour éviter la perte d'informations, enregistrez toujours votre travail et arrêtez le système POC-621 via le système d'exploitation Windows avant de retirer la batterie ou l'adaptateur secteur.*
 - 2. *Les batteries au lithium ont une durée de vie prédéterminée. Remplacez les vieilles piles par des piles neuves lorsqu'elles ont atteint la fin de leur durée de vie (la garantie est de 1 an ou 300 cycles avec 70% de capacité normale, selon ce qui survient en premier).*



4.6 Battery Safety Instruction

- 1. The POC-621 system should only be powered by an Advantech battery pack or compatible battery pack supplied by Advantech.

Warning! 1) *Do not insert non-Advantech battery packs into the POC-621 system.*



- 2) *Do not attempt to use battery packs from a different brand or third-party.*

AVERTISSEMENT! 1) *N'insérez pas de blocs-batteries non Advantech dans le système POC-621.*



- 2) *N'essayez pas d'utiliser des batteries d'une marque différente.*

- 2. Do not make the wrong polarity connection when charging and using battery packs. Always double check the battery installation direction before insertion or connection with the charger.

Warning! *Batteries installed in the wrong direction with the opposite polarity are at risk of exploding, which may cause fire.*



AVERTISSEMENT! *Les batteries installées dans le mauvais sens avec la polarité opposée risquent d'explorer, ce qui peut provoquer un incendie.*



- 3. Only use the specific li-ion battery charger provided by Advantech to charge the battery pack.

Warning! *Using a battery charger of a different brand may cause the battery to explode and result in fire.*



AVERTISSEMENT! *L'utilisation d'un chargeur de batterie d'une marque différente peut entraîner la exploser et provoquer un incendie.*



4. Do not short the battery pack connector using metal or a wire lead.

Warning! *Wire lead shorts can cause the battery to explode and result in fire.*



AVERTISSEMENT! *Les courts-circuits du fil peuvent provoquer l'explosion de la batterie et provoquer un incendie.*



5. Do not drop the battery pack.

Warning! *If the battery cover is cracked, split, or broken, do not use the battery.*



AVERTISSEMENT! *Si le couvercle de la batterie est fissuré, fendu ou cassé, n'utilisez pas la batterie.*



6. Do not expose the battery pack to fire or high temperatures.

Warning! *Exposure to high temperatures may cause the battery to explode.*



AVERTISSEMENT! *L'exposition à des températures élevées peut provoquer l'explosion de la batterie.*



7. Do not penetrate the battery with nails, strike the battery with a hammer, step on the battery, or otherwise subject it to significant impact or shock.

Warning! *Batteries are at risk of exploding and may cause fire if subjected to significant impact.*



AVERTISSEMENT! *Les batteries risquent d'explorer et de provoquer un incendie si elles sont soumises à impact significatif.*



8. Do not expose the battery pack to moisture or water.
9. Do not disassemble or modify the battery pack. The battery pack contains safety and protection circuits that if damaged, may cause the battery to overheat, explode, or ignite. There are no user-serviceable parts inside the battery pack.
10. Always refer to the user manual for charging instructions.
11. Charge the battery pack in indoor environments with a controlled temperature.

Caution! *Exposure to extreme temperatures can damage the battery and reduce the battery life capacity.*



ATTENTION! *L'exposition à des températures extrêmes peut endommager la batterie et réduire la capacité de la batterie.*



12. Do not leave fully charged battery packs connected to the computer for prolonged periods of time.

Caution! *When the battery is fully recharged, disconnect it from the computer or unplug the power cable.*



ATTENTION! *Lorsque la batterie est complètement rechargeée, déconnectez-la de l'ordinateur ou débranchez le câble d'alimentation.*



-
13. Do not discharge the battery pack using any device other than the POC-621 system or a device specified by Advantech.

Warning! *Using the battery pack to power devices other than the POC-621 system may damage the battery, limit performance, or reduce the battery life capacity. Additionally, exposure to abnormal current may cause the battery pack to overheat, explode, or ignite, causing serious injury.*

AVERTISSEMENT! *L'utilisation de la batterie pour alimenter des appareils autres que le système POC-621 peut endommager la batterie, limiter les performances ou réduire la durée de vie de la batterie. De plus, une exposition à un courant anormal peut entraîner une surchauffe, une explosion ou une inflammation de la batterie, entraînant des blessures graves.*

14. Use/discharge the battery pack in indoor environments with a controlled temperature.

Caution! *Using the battery in environments with temperatures outside the acceptable range may damage the battery, limit performance, or reduce the battery life capacity.*

ATTENTION! *L'utilisation de la batterie dans des environnements avec des températures en dehors de la plage acceptable peut endommager la batterie, limiter les performances ou réduire la durée de vie de la batterie.*

15. Inspect all battery packs before use.

Warning! 1) Never use battery packs that are visibly damaged or that may have internal damage.
2) Never remove the battery's outer cover or use a battery pack with a damaged cover.

AVERTISSEMENT! 1) N'utilisez jamais de blocs-piles visiblement endommagés ou dommages internes.
2) Ne retirez jamais le couvercle extérieur de la batterie et n'utilisez jamais de batterie avec un couverture endommagée.

16. Replace the entire battery pack with a new battery pack when the time between charges decreases significantly.

Caution! When the time between charges decreases significantly, check the voltage of the battery pack before charging. If the battery performance drop significantly, please do not use this battery pack.



ATTENTION! Lorsque le temps entre les charges diminue considérablement, vérifiez la tension de la batterie avant de la charger. Si les performances de la batterie diminuent considérablement, veuillez ne pas utiliser cette batterie.



4.7 Emergency Scenarios

If you notice any of the following, stop charging or using the battery immediately:

1. The battery has become swollen, bulged, or deformed.
2. The battery is leaking fluid, smoke, or a foul odor.
3. The battery temperature is extremely hot.
4. The battery appears abnormal in any way
5. The battery cover is cracked, split, or broken.
6. The battery has been exposed to moisture.

Warning! 1. If any of the above conditions are observed, place the battery pack and charger outside on a concrete floor, away from any flammable materials for approximately 15 minutes and contact Advantech. Do not attempt to reuse the battery pack.
2. In the event that the battery is leaking and the fluid gets into your eye, rinse well with water and immediately seek medical care. If left untreated, exposure to battery fluid could damage your eye.



Avertissement! 1. Si l'une des conditions ci-dessus est observée, placez la batterie et le chargeur à l'extérieur sur un sol en béton, à l'écart de tout matériau inflammable pendant environ 15 minutes et contactez Advantech. N'essayez pas de réutiliser la batterie.
2. Si la pile fuit et que le liquide pénètre dans vos yeux, rincez abondamment à l'eau et consultez immédiatement un médecin. Si elle n'est pas traitée, l'exposition au liquide de la batterie peut endommager vos yeux.

4.8 Battery Storage and Transportation

1. Store the battery in a dry environment with a room temperature of 0 ~ 25 °C (32 ~ 77 °F) for optimum health.
2. Do not expose the battery pack to direct sunlight (heat) or store the battery pack inside vehicles in hot weather for extended periods of time.
3. When transporting or temporarily storing the battery in a vehicle, the internal vehicle temperature should not be greater than -20 °C (-4 °F) but no more than 50 °C (122 °F).
4. If possible, remove the battery pack from the device if the device will be unused for several months.
5. Do not remove individual battery packs from the original packaging until required for use.

Warning! *To reduce the risk of damage, do not expose battery packs to high temperatures for extended periods of time. This may damage the battery and cause fire.*



AVERTISSEMENT! *Pour réduire le risque de dommages, n'exposez pas les batteries à des températures élevées pendant des périodes prolongées. Cela pourrait endommager la batterie et provoquer un incendie.*

Caution! 1. *Stored batteries should be checked every 3 months. If the capacity is less than 50%, recharge the battery before returning it to storage.*



2. *Batteries may leak if left in the device for extended periods of time. After long periods of storage, check the battery pack before charging.*

ATTENTION! 1. *Les batteries stockées doivent être vérifiées tous les 3 mois. Si la capacité est inférieure à 50%, rechargez la batterie avant de la remettre en stockage.*



2. *Les piles peuvent fuir si elles sont laissées dans l'appareil pendant de longues périodes. Après de longues périodes de stockage, vérifiez la batterie avant de la charger.*

4.9 Battery Disposal

When the battery pack has reached the end of its service life, do not use general household waste for disposal. Follow local laws and government regulations for correct battery disposal.

Caution! *Cover terminals with tape to prevent inadvertent contact with other batteries or metal objects.*



Warning! 1. *To reduce the risk of fire or burns, do not disassemble, crush, puncture, expose to fire or water, or short the battery's external contacts.*



2. *Used batteries may still have a partial charge. If partially charged batteries come into contact with other batteries or metal objects, the remaining stored energy may be discharged and cause a fire or explosion.*

ATTENTION! *Couvrez les bornes avec du ruban adhésif pour éviter tout contact accidentel avec d'autres batteries ou des objets métalliques. Couvrez les bornes avec du ruban adhésif pour éviter tout contact accidentel avec d'autres batteries ou des objets métalliques.*

AVERTISSEMENT! 1. *Pour réduire le risque d'incendie ou de brûlure, ne démontez pas, n'écrasez pas, ne percez pas, n'exposez pas au feu ou à l'eau, et ne court-circuitez pas les contacts externes de la batterie.*



2. *Les batteries usagées peuvent encore avoir une charge partielle. Si des batteries partiellement chargées entrent en contact avec d'autres batteries ou des objets métalliques, l'énergie stockée restante peut être déchargée et provoquer un incendie ou une explosion.*

Appendix A

**POC-621 Series VESA
Mounting**

A.1 Install VESA Mounting

The POC-621 supports standards VESA mounting to help system integrators conveniently integrate the panel PC into their system.

Never use mounting brackets except as provided by Advantech to prevent unreliable mounting of the POC-621. 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-mount to the heat-sink of the POC-62. Secure it in place with four of the philips-head 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 POC-621 Series and mounting bracket may create danger of injury.



Avertissement! Assurez-vous de bien serrer les vis du support de montage. Un joint lâche entre la SÉRIE POC-621 et le support de montage peut créer un risque de blessure.

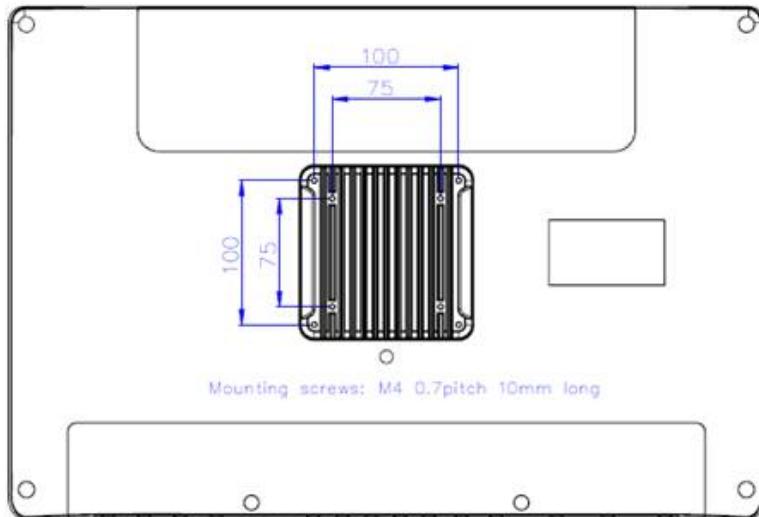


Figure A.1 VESA Mounting

[20170331 / UL project handler / Marcell Lin]:

According to client's explanation, the VESA mounting stand is not included to make this product portable.

Appendix B

Driver Installation

B.1 Driver Installation

The POC system supports Windows is WIN10 IoT/RS5 version or later, 64 bits only. It no longer supports 32 bits drivers.

Warning! Please use a clean OS to install the driver, otherwise, it might cause an unexpected error.



Windows Driver List:

Please follow your OS version to install the proper driver.

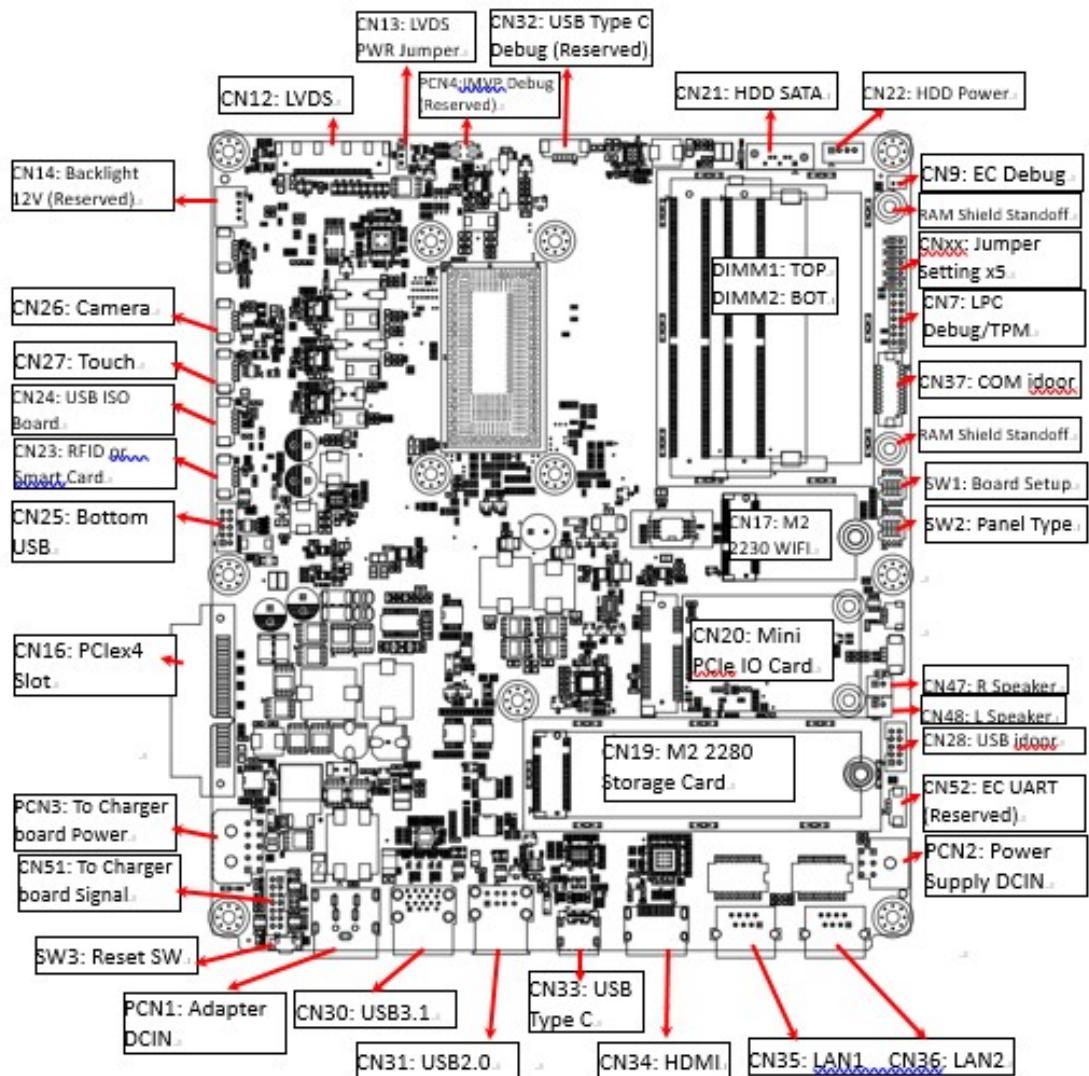
Please follow the sequence below to install drivers.

Install sequence	Folder Name	Note
1	Chipset	Please install chipset driver first.
2	Graphics	Because IGCC (Intel Graphics Command Center) is no longer combine with driver. After graphics driver install complete, please install IGCC by powershell.
3	Audio	
4	LAN	
5	AMT	Intel Management Engine Driver
6	RST	Intel Rapid Storage Technology
7	Wireless Card (Wi-Fi+Bluetooth)	Optional
8	RFID	Optional
9	Smart Card	Optional

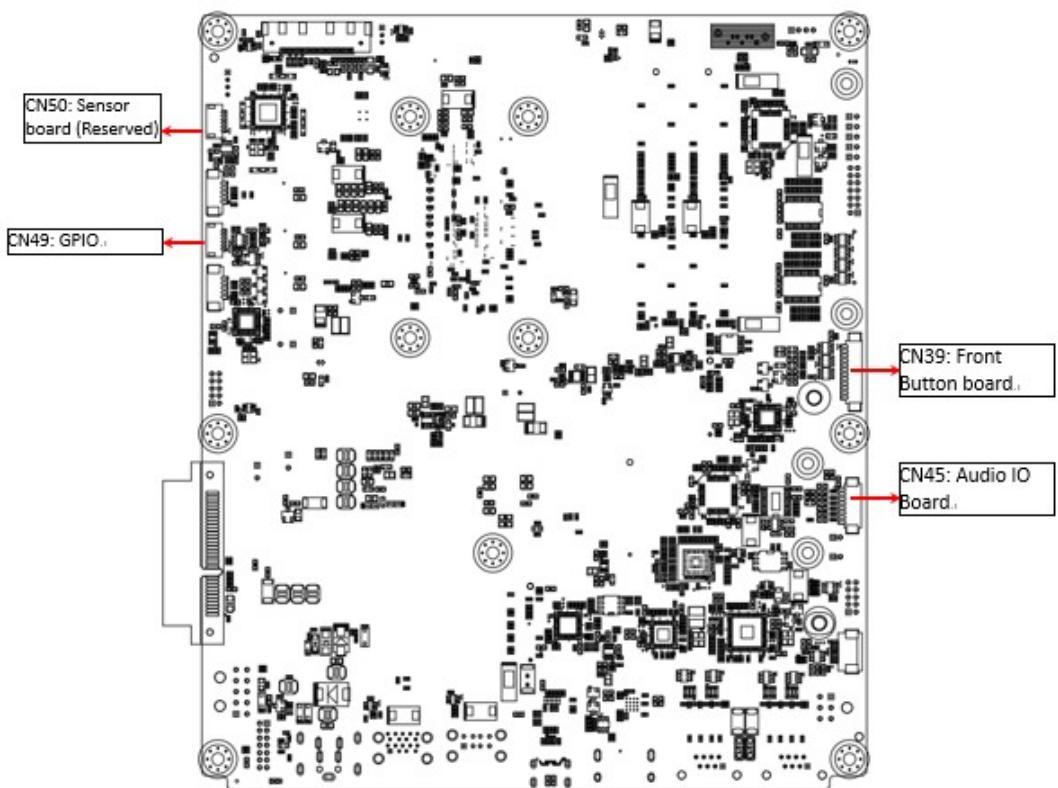
Appendix C

**PCM-8722 Connector
Map**

C.1 PCM-8722 Connector Map



Appendix C PCM-8722 Connector Map

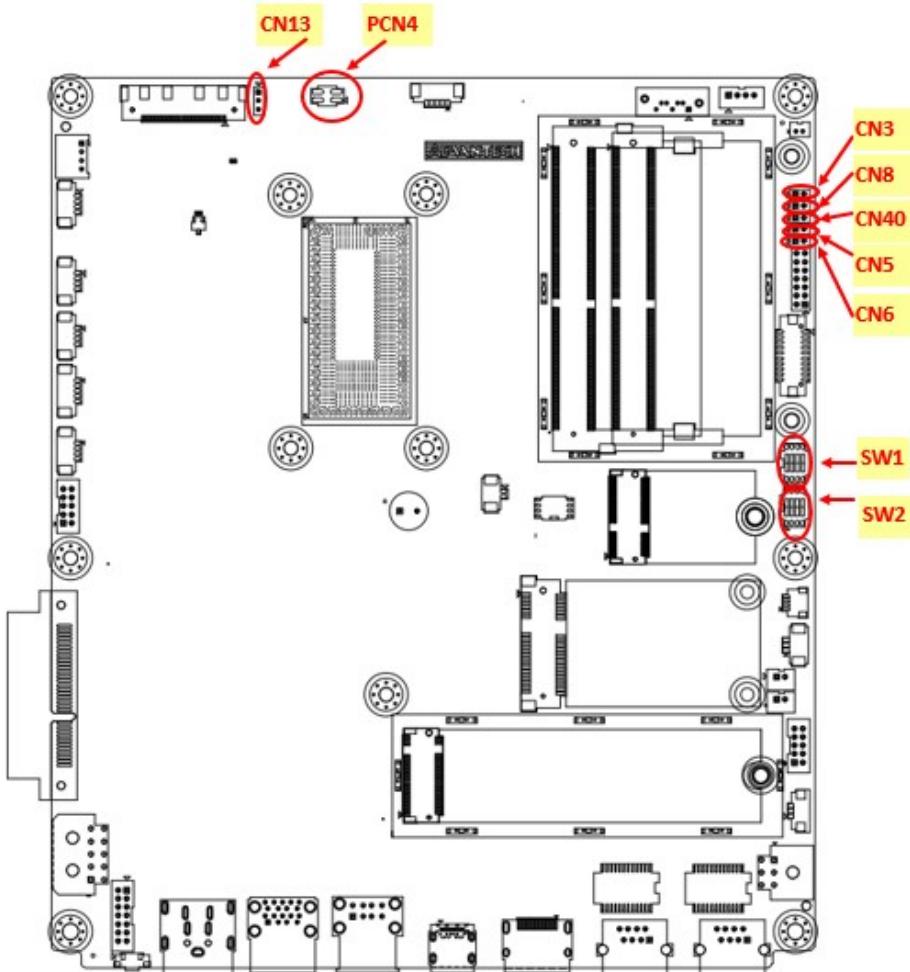


Appendix D

**PCM-8722 Jumper
Settings**

D.1 PCM-8722 Jumper setting

The POC system uses PCM-8722 PCBA. All Jumpers/DIP switches are located on the MB Top side



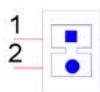
Jumper Setting:

MB:

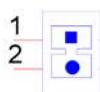
CN3	ME Manufacturing Mode
CN5	Clear CMOS
CN6	Clear ME (Reserved, Not installed)
CN8	System Reset (Reserved, Not installed)
CN13	LVDS Voltage
CN40	Power Button (Reserved, Internal Test Only)
PCN4	Power Debug (Reserved)
SW1	Board Setup
SW2	Panel Setup

Table D.1: CN3 ME Manufacturing Mode

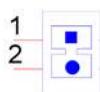
Description	ME Manufacturing Mode
Setting	Function
(1-2)	ME Manufacturing Mode
(No Connect)	Normal Operation (Default)

**Table D.2: CN5 Clear CMOS**

Description	Clear CMOS Setup
Setting	Function
(1-2)	Clear CMOS Setup
(No Connect)	Normal Operation (Default)

**Table D.3: CN6 (Not Install) Clear ME**

Description	Clear ME Setup
Setting	Function
(1-2)	Clear ME Setup
(No Connect)	Normal Operation (Default)

**Table D.4: CN8 (Not Install) System Reset**

Description	Reset system button
Setting	Function
(1-2)	System Reset
(No Connect)	Normal Operation (Default)

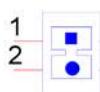
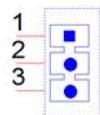
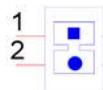


Table D.5: CN13 LVDS Voltage Setup

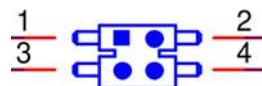
Description	Select panel LVDS voltage setting
Setting	Function
(1-2)	Panel LVDS voltage 5V (Default)
(2-3)	Panel LVDS voltage 3.3V

**Table D.6: CN40 Power Button (Internal Test Only)**

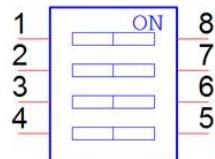
Description	Power Button Signal
Setting	Function
(Pin 2)	Short pin 1 to Power ON system
(No Connect)	Normal Operation (Default)

**Table D.7: PCN4 Power Debug (Reserved)**

Description	Power Debug, Internal Test Only
Setting	Function
(No Connect)	Normal Operation (Default)

**Table D.8: SW1 Board Setup**

Description	Select Board setting
Setting	Function
(SW1-1/2/3)	Select board type
(SW1-4)	Force Speaker always ON



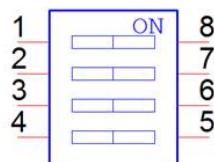
SW1 Pin 1	SW1 Pin 2	SW1 Pin 3	Board Configuration
Hi (OFF)	Hi (OFF)	Hi (OFF)	Board Config. 1 (Default)
Hi (OFF)	Hi (OFF)	Low (ON)	Board Config. 2
Hi (OFF)	Low (ON)	Hi (OFF)	Board Config. 3
Hi (OFF)	Hi (OFF)	Hi (OFF)	Board Config. 4
Low (ON)	Hi (OFF)	Hi (OFF)	Board Config. 5
Low (ON)	Hi (OFF)	Low (ON)	Board Config. 6
Low (ON)	Low (ON)	Hi (OFF)	Board Config. 7
Low (ON)	Hi (OFF)	Hi (OFF)	Board Config. 8

Table D.9: SW1 Pin 4 Speaker Function

Hi (OFF)	The speaker mutes when the audio is plugged in – with audio board system default
Low (ON)	Speaker always on – without audio board system default

Table D.10: SW2 Panel Resolution/Type Setup

Description	Select panel setting
Setting	Function
(SW2-1~4)	Select panel type

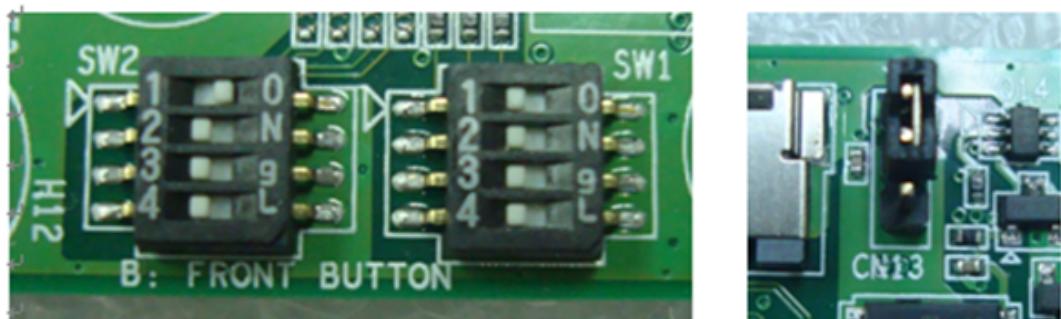


SW2 Pin 1	SW2 Pin 2	SW2 Pin 3	SW2 Pin 4	Panel Resolution	LVDS Channel
Hi(OFF)	Hi(OFF)	Hi(OFF)	Hi(OFF)	1920x1200	24 bits Dual
Low(ON)	Hi(OFF)	Hi(OFF)	Hi(OFF)	1920x1080 (Default)	24 bits Dual
Hi(OFF)	Hi(OFF)	Low(ON)	Hi(OFF)	1600x900	24 bits Dual
Low(ON)	Low(ON)	Low(ON)	Hi(OFF)	1366x768	24 bits Single
Low(ON)	Hi(OFF)	Hi(OFF)	Low(ON)	1280x1024	24 bits Dual
Low(ON)	Hi(OFF)	Low(ON)	Low(ON)	1024x768	24 bits Single
Low(ON)	Low(ON)	Low(ON)	Low(ON)	800x600	18 bits Single

POC-621 System setting

POC-621, with audio board, 5V LVDS Panel

SW1 Pin 1	SW1 Pin 2	SW1 Pin 3	SW1 Pin 4	SW2 Pin 1	SW2 Pin 2	SW2 Pin 3	SW2 Pin 4	CN13
Hi(OFF)	Hi(OFF)	Hi(OFF)	Hi(OFF)	Low(ON)	Hi(OFF)	Hi(OFF)	Hi(OFF)	(1-2)



Appendix E

**Advanced BIOS
Functions**

E.1 Advanced BIOS Functions

This appendix introduces the POC systems advanced function via the BIOS menu.

1. Power Button Function Enable/Disable

You can enable/disable the power button function in the BIOS menu.

If you disable the power button in S0 (System ON) status, the power button will not work. Therefore, users cannot turn off the system using the power button. Users need to use software to turn the system off. This function can prevent touching the power button accidentally, and shutting the system down.

BIOS Menu location:

BIOS Menu – Advanced – IT5121 HW Monitor – Power Button Function

- Enable: The power button functions when the system is in S0 (System ON) status. (Default)
- Disable: The power button does not function when the system is in S0 (System ON) status.

Because disable the power button function will cause system cannot power on by power button pressed. When you set this function to disable, BIOS will set the “State After G3” to “Power On” automatically. So you can plugin power adapter to turn on POC system.

2. Brightness Button Control

You can enable/disable LCD Backlight button functions in the BIOS menu.

If you disable the LCD Backlight button, this button will not work. Therefore the user cannot adjust LCD backlight luminance using this button. This function can prevent mis-touch the LCD backlight button to adjust the LCD backlight luminance.

BIOS Menu location:

BIOS Menu – Advanced – IT5121 HW Monitor – Brightness Button Control

- Enable: Front bezel LCD Backlight adjust button control function work. (Default)
- Disable: Front bezel LCD Backlight adjust button control function not work.

3. Volume Button Control

You can enable/disable Front volume button function in BIOS menu.

If you disable the Front volume button, this button will not work. So the user cannot adjust speaker volume by this button. This function can prevent mis-touch the front volume button to adjust the speaker volume.

BIOS Menu location:

BIOS Menu – Advanced – IT5121 HW Monitor – Volume Button Control

- Enable: Front bezel volume adjust button control function work. (Default)
- Disable: Front bezel volume adjust button control function not work.

4. Touch Button Control

You can enable/disable touch button function in BIOS menu.

If you disable the touch button, this button will not work. So the user cannot turn off touch by this button. The touch function will always on.

BIOS Menu location:

BIOS Menu – Advanced – IT5121 HW Monitor – touch button control

- Enable: Front bezel touch button control function work. (Default)
- Disable: Front bezel touch button control function not work.

5. Read light Button Control

You can enable/disable read light button function in BIOS menu.

If you disable the read light button, this button will not work. So the user cannot turn on read light by this button. The read light function will always off.

BIOS Menu location:

BIOS Menu – Advanced – IT5121 HW Monitor – Read light Control

- Enable: Front bezel Read light button control function work. (Default)
- Disable: Front bezel Read light button control function not work.

6. EC Beep Function

You can enable/disable EC beep function in BIOS menu.

If you disable the EC beep function, EC will not generate beep sound when you press front bezel button.

BIOS Menu location:

BIOS Menu – Advanced – IT5121 HW Monitor – Beep Sound Function

- Enable: Beep sound when front bezel button pressed. (Default)
- Disable: No beep sound when front bezel button pressed.

7. SETUP POPUP MENU F12

You can press F12 key Setup popup menu in system boot.

When you press F12 key in bootup, BIOS will display a bootable device menu and you can select proper boot device that you want.

ADVANTECH

Enabling an Intelligent Planet

www.advantech.com

Please verify specifications before quoting. This guide is intended for reference purposes only.

All product specifications are subject to change without notice.

No part of this publication may be reproduced in any form or by any means, electronic, photocopying, recording or otherwise, without prior written permission from the publisher.

All brand and product names are trademarks or registered trademarks of their respective companies.

© Advantech Co., Ltd. 2022