

Mobile Computer

AIM-78S Series

Startup Manual

AIM-78S Appearance



Left: Front View Right: Rear View

For more information on this and other Advantech products, please visit our website at:

<http://www.advantech.com>

For technical support and service, please visit our support website at:

<http://support.advantech.com>

This manual is for AIM-78S Series

First Edition
July 2021

Description of Parts



- A: Front Camera
- B: Power LED
- C: Light Sensor
- D: Speaker
- E: micro-SIM & micro-SD Card Door
- F: Programmable Key (Default Barcode scanner)
- G: Docking Connector (USB3.0)
- H: USB 2.0 Type A
- I: USB 3.0 Type C
- J: Power Button
- K: Volume Key (Up/Down)
- L: Audio Jack (Headset Combo)
- M: Extension Module
- N: NFC
- O: Rear Camera with LED Flash
- P: Battery Cover
- Q: DC-IN

Easy Setup

Power On Computer

1. Model: AIM-78S Rating 19 Vdc / 3.43A
2. This product is intended to be supplied by a UL Listed Power Adapter (Tamura / XAIM-XEW1934N-5158) or DC power source, rated 19 Vdc, 3.43A min. for model AIM-78S, and Tma 40 degree C. Please contact Advantech for further information and assistance.
3. The product is equipped with shipping mode for battery protected and power saving, please charge the embedded battery of the computer: Connect the Power adaptor on the AIM-78S computer. ("Q" on the description of parts.) Please charge for at least one hour when you use this computer for the first time.
4. Push the Power button ("J" on description of parts.) for 2~3 seconds to start the computer.
5. The product is equipped with a 10.1" Capacitive Touch Panel. Use finger to touch the following Active Area to operate the computer.
6. The product is equipped with one LED indicator for battery status. The following shows LED status for different power states:
 - a) The orange LED blinks when internal battery capacity is below 10% to warn the user to charge.
 - b) The Blue LED lights up when internal battery is being charged.
 - c) The Green LED lights up when internal battery is full.
7. While the computer is running, push the power button for 1 second will disable LCD backlight for power saving. Push the power button again will enable the backlight again; press the power button for 10 seconds while computer is running, the system will shut down.
8. Environment:
 - Operating Temperature : -10°C ~ +50 °C
 - Operating Humidity : 10% ~ 90%@40°C non-condensed
 - Storage/Transportation Temperature : -20°C ~ +60°C
 - Storage/Transportation Humidity : 10% ~ 95%@40°C non-condensed
 - Humidity consider to 25 °C, 48 hrs
 - Number and type of Means of Protection : MOPP Altitude 3000m
 - Atmospheric pressure : 700-1013 hPa (for operating); 500-1060 hPa (for Storage/Transportation)
 - IP level : IPX0

9. There will be "ADVANTECH" logo upside down while first boot up. This scenario will be disappear after 2nd boot up and won't influence functions and usage.

Maintenance

If encounter any of system failure or serious incident in relation to device, please report to the manufacturer or local agent.

Battery Caution

CAUTION!

Danger of explosion if battery is incorrectly replaced. Replace only with the same type recommended by the manufacturer, discard used batteries according to the manufacturer's instructions.

Attention : Danger d'explosion si la batterie est inexactement remplacée. Remplacez seulement avec la même chose ou le type recommandé par le fabricant, jettent les batteries utilisées instructions de s selon fabricant des'.

Mistreat the battery used in this device may present a risk of fire or chemical burn.

Do not attempt to disassemble the computer or its accessories.

Only qualified personal is allowed to replace the battery. Do not dispose batteries in a fire and check with local authorities for disposal instructions.

AIM-78S can only be equipped with standard battery pack with Getac, AIM-BAT-10, 2300mAh Lithium Ion Battery. Use of another battery may present a risk of fire or explosion.

Battery Charge Notice

It is important to consider the environment temperature whenever you are charging the Lithium-Ion battery pack. The process is more efficient at normal room temperature or slightly cooler. It is essential that you charge batteries within the stated range of 0°C to 40°C. Charging batteries outside of the specified range could damage the batteries and shorten their charging life cycle.

Storage and Safety Notice

Although charge Lithium-Ion batteries may be left unused for several months, their capacity may be depleted due to the buildup of internal resistance. If this happens they will require recharging prior to use. Lithium Ion batteries may be stored at temperatures between -20°C to 60°C, however they may be depleted more rapidly at the high end of this range. It is recommended to store AIM-78S within normal room temperature ranges.

Warnings, Cautions and Notes

Warning!



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

Avertissement!



Une déclaration d'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.

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.

Attention!



Une déclaration de MISE EN GARDE fournit des informations importantes sur une situation potentiellement dangereuse qui, si elle n'est pas évitée, peut entraîner des blessures mineures ou modérées pour l'utilisateur ou le patient ou endommager l'équipement ou d'autres biens.

Note!



A **NOTE** provides additional information intended to avoid inconveniences.

Details for preparatory treatment or disposal

Installation is only to be carried out by manufacturer authorized and trained personnel.

Calibration the device

- We suggest to send back to supplier for annually check.

Safety Instructions

1. Strictly follow these instructions for use; please read these safety instructions carefully.
2. Keep this user manual for later reference; any use of the product requires full understanding and strict observation of all portions of these instructions. Observe all.
3. Repair of the device may also only be carried out by trained service personnel.
4. Advantech recommends that a service contract be obtained with Advantech Service and that all repairs also be carried out by them. Otherwise the correct functioning of the device may be compromised.

Warning!



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

Avertissement!



En raison du risque d'électrocution, ne retirez jamais la boîte d'un appareil lorsqu'il est en fonctionnement ou branché à une prise de courant.

5. 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 manual.
 - The equipment has been dropped and damaged.
 - The equipment has obvious signs of breakage.
6. 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-circuits 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 service personnel to verify that patient safety is not compromised.

Attention!



Pour éviter les courts-circuits et endommager l'appareil, ne laissez pas les liquides entrer en contact avec l'appareil. Si des liquides sont accidentellement répandus sur l'équipement, retirez l'unité concernée du service dès que possible et contactez le personnel de service pour vérifier que la sécurité du patient n'est pas compromise.

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

Caution!



Do not leave this equipment in an uncontrolled environment where the Storage temperature is below 0° C or above 45° C. This may damage the equipment.

Attention!



Ne laissez pas cet équipement dans un environnement non contrôlé où la température de stockage est inférieure à 0 ° C ou supérieure à 45 ° C. Ceci pourrait endommager l'équipement.

8. Grounding reliability can only be achieved when the equipment is connected to an equivalent receptacle marked "Hospital Only" or "Hospital Grade".
9. 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.
10. If the integrity of the protective earth conductor is in doubt. Please turn off the power switch.
11. To disconnect this product from the mains supply disconnects the mains plug from the socket outlet. The power supply is regarded as part of this equipment.
12. Make sure user not to contact SIP/SOPs and the patient at the same time.
13. Do not switch on/off the power switch of the battery system during operation.

Warning!



To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.

Avertissement!



Pour éviter tout risque d'électrocution, cet équipement doit uniquement être raccordé à une alimentation secteur avec terre de protection.

Warning!



No modification of this equipment is allowed.

Avertissement!



Aucune modification de cet équipement n'est autorisée.

14. The power cord for use on the device shall be no less robust than ordinary tough rubber sheathed flexible cord (IEC 60245-1:2003, Annex A, designation 53) or ordinary polyvinyl chloride sheathed flexible cord (IEC 60227-1:1993, Annex A, design. 53. For the US/CA the requirements of the NEC and Canadian code shall be followed (US and CA national differences).

Warning!



Battery system, equipotential pin, metal wiring on equipotential pin, wheels and brake shall be replaced/send back to maintain by the manufacturer every two years, risks of function failure, electrical shock, equipment damage, environment pollution and etc. may occur if not doing so.

Avertissement!



Le système de batterie, la broche équipotentielle, le câblage métallique sur la broche équipotentielle, les roues et le frein doivent être remplacés / renvoyés par le fabricant tous les deux ans, les risques de défaillance de fonctionnement, les chocs électriques, les dommages matériels, etc. Ce faisant.

15. If your computer clock is unable to keep accurate time, please check the battery.

Caution!



When the battery has problem of charging. Please contact a qualified technician or your retailer. The computer is provided with a battery-powered real-time clock circuit. There is a danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

Attention!



Lorsque la batterie a un problème de charge. Veuillez contacter un technicien qualifié ou votre revendeur. L'ordinateur est équipé d'un circuit d'horloge en temps réel alimenté par batterie. Il y a un risque d'explosion si la batterie est incorrectement remplacée. Remplacez uniquement par le même type ou un type équivalent recommandé par le fabricant. Jetez les piles usagées conformément aux instructions du fabricant.

Caution!



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

Attention!



Lors de la maintenance de l'appareil, utilisez toujours des pièces de rechange conformes aux normes Advantech. Advantech Medical ne peut pas garantir ou endosser les performances sécuritaires des pièces de rechange tierces à utiliser avec notre dispositif médical.

16. Make sure the user does not allow contact between SIP/SOPs and the patient at the same time.
17. Follow national, state or local requirements to dispose of unit.
18. Maintenance: to properly maintain and clean the surfaces, use only the approved products or clean with a dry applicator.
19. Contact information:
No.1, Alley 20, Lane 26, Rueiguang Road
Neihu District, Taipei, Taiwan 114,
R.O.C.
TEL: +886 2-7732-3399
20. This equipment shall not be used as a life support system.
21. 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.
22. Do not place the power cord where it is difficult to disconnect and may be stepped by other person

Note!



Environmental protection.
Follow national requirements to dispose of unit.

23. "WARNING - Do not modify this equipment without authorization of the manufacturer."
24. "WARNING – To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth."
25. "CAUTION: This adapter Tamura / XAIM-XEW1934N-5158 is a forming part of the device."
26. Remove the power cord to fully turn off the device when the battery pack is empty.
27. Classification:
 - 1). Class I
 - 2). No applied part
 - 3). Continuous Operation
28. CAUTION! This product: AIM-78S is used with the Qualified & certificated power adapter: Tamura / XAIM-XEW1934N-5158. Output: Output: 19Vdc, 3.43A max
29. DISCLAIMER: This set of instructions is given according to IEC 704-1. Advantech disclaims all responsibility for the accuracy of any statements contained herein.
30. In case of serious incident that has occurred, please contact the manufacturer and local authorities immediately.
Notice: It is recommended to install the appropriate soft 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

Complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated (Insert date of this guidance.)

CLASS 1 LASER PRODUCT

IEC 60825:2007

Caution - Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure

Attention - L'utilisation des commandes ou réglages ou l'exécution des procédures autres que celles spécifiées dans les présents exigences peuvent être la cause d'une exposition à un rayonnement dangereux

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.

Tablet Specifications

	LTE SKU	WiFi SKU
System	Processor Intel Atom™ Z3740	Processor Intel Atom™ Z3740
Memory	4GB LPDDR4	4GB LPDDR4
Operating System	Android 8.1	Android 8.1
Storage	64GB	64GB
Memory SD	Support up to 128GB	Support up to 128GB
Type	10 x P-MMC L20	10 x P-MMC L20
Resolution	1920x1080 120Hz	1920x1080 120Hz
Display	IPS color	IPS color
Touch Type	10 point multi touch P-CAP touch control	10 point multi touch P-CAP touch control
Display Type	Corning Gorilla Glass 3	Corning Gorilla Glass 3
Bluetooth	Bluetooth v5.0	Bluetooth v5.0
Communication	IEEE 802.11 a/b/g/n	IEEE 802.11 a/b/g/n
WiFi	802.11b	N/A
GPS	13.56 MHz, compatible with ISO15693, ISO14443A, ISO 14443B, FeliCa	N/A
NFC	13.56 MHz, compatible with ISO15693, ISO14443A, ISO 14443B, FeliCa	13.56 MHz, compatible with ISO15693, ISO14443A, ISO 14443B, FeliCa
Standard IO	1 x USB 2.0 1 x USB Type C (Data transfer only) 1 x combo audio jack 1 x 19VDC-in jack 1 x SIM card reader 1 x micro SD card reader	1 x USB 2.0 1 x USB Type-C (Data transfer only) 1 x combo audio jack 1 x 19VDC-in jack 1 x micro SD card reader
Connectivity	Extended I/O 1 x ARM docking 15-pin power connector 1 x USB 2.0, 1 x 2-wire UART, 5V1A power	1 x ARM docking 15-pin power connector 1 x USB 2.0, 1 x 2-wire UART, 5V1A power
Docking	1 x ARM docking 15-pin power connector 1 x USB 2.0, 12V power	1 x ARM docking 15-pin power connector 1 x USB 2.0, 12V power

Speaker	2 x Internal speakers (2 W)	2 x Internal speakers (2 W)
Microphone	Integrated	Integrated
Audio	1 x Audio combo jack (combines stereo audio output and mono microphone input)	1 x Audio combo jack (combines stereo audio output and mono microphone input)
Audio Jack	1 x RS-232 COM	1 x RS-232 COM
Camera	Front: 8.0 megapixel fixed focus camera Rear: 1.3 megapixel auto-focus camera with 1.0 f/1.8	8.0 megapixel fixed focus camera 1.3 megapixel auto-focus camera with 1.0 f/1.8
Sensors	Ambient light sensor, E compass, Gyrocompass/accelerometer	Ambient light sensor, E compass, Gyrocompass/accelerometer
Barcode Scanner (optional)	Integrated	Integrated
Barcode Scanner	Integrated 1D/2D barcode scanner	Integrated 1D/2D barcode scanner
Control Buttons	1 x Power button 1 x volume key (optional) 1 x programmable function key	1 x Power button 2 x volume key (optional) 1 x programmable function key
System indicator	Full green (100%); Charging: blue; Low: red (10%)	Full green (100%); Charging: blue; Low: red (10%)
Power System	Input Voltage: DC jack: 19V/3 A2A Battery: Rechargeable battery with capacity 1.811 AWh (10.8V, 2400 mAh, 28 Wh) Operating time: up to 6 h (depending on usage scenario) Charging time: ~ 1.5 h Charging temperature: 0 ~ 45°C Discharging temperature: 0 ~ 45°C	Input Voltage: DC jack: 19V/3 A2A Battery: Rechargeable battery with capacity 1.811 AWh (10.8V, 2400 mAh, 28 Wh) Operating time: up to 6 h (depending on usage scenario) Charging time: ~ 1.5 h Charging temperature: 0 ~ 45°C Discharging temperature: 0 ~ 45°C
Environment	Storage temperature: -20 ~ 60 °C (-4 ~ 140 °F) IP Rating: IP65 Shock: IEC60068-2-27 Vibration: IEC60068-2-64 Humidity: Operating: 10 ~ 90% @ 40 °C non-condensing Storage: 10 ~ 90% non-condensing	Storage temperature: -20 ~ 60 °C (-4 ~ 140 °F) IP Rating: IP65 Shock: IEC60068-2-27 Vibration: IEC60068-2-64 Humidity: Operating: 10 ~ 90% @ 40 °C non-condensing Storage: 10 ~ 90% non-condensing
Physical Characteristics	Drop Tested: Up to 120 cm (4 ft) onto paved over concrete Dimensions (W x D x H): 210 x 113 x 181 mm (8.3 x 4.4 x 7.1 in) Weight: 365 g (12.9 oz) Color: Dark Grey	Drop Tested: Up to 120 cm (4 ft) onto paved over concrete Dimensions (W x D x H): 210 x 113 x 181 mm (8.3 x 4.4 x 7.1 in) Weight: 365 g (12.9 oz) Color: Dark Grey

Optional Accessories

1. Office Docking Station



Specifications

I/O	Advanced Desk Docking Station	
	2 x USB 2.0	1 x RS-232 COM
Power	Input Voltage	19 V
	Dimensions (W x D x H)	190 x 189.44 x 122.12 mm (7.72 x 8.67 x 4.81 in)
Mechanical	Weight	0.76 kg (1.68 lb)
	Operating Temperature	-10 ~ 50 °C (14 ~ 122 °F); 0 ~ 40 °C (32 ~ 104 °F) for charging

Installation instructions:

- Put the AIM-78S tablet onto the office docking station
- Connect power adapter to the docking station to start using it
- You can also put AIM-78S battery pack into the battery bay to charge the battery

2. VESA Docking Station



Specifications

I/O	Advanced VESA Docking Station	
	2 x USB 3.0	1 x RS-232 COM
Stand	Input Voltage	19 V
	Dimensions (W x D x H)	150.13 x 75.49 x 227 mm (6.3 x 2.9 x 8.9 in)
Mechanical	Weight	0.33 kg (0.77 lb)
	Operating Temperature	-10 ~ 50 °C (14 ~ 122 °F); 0 ~ 40 °C (32 ~ 104 °F) for charging

Installation instructions:

- Put the AIM-78S tablet onto the VESA docking station
- Connect power adapter to the docking station to start using it

3. Docking Station



Specifications

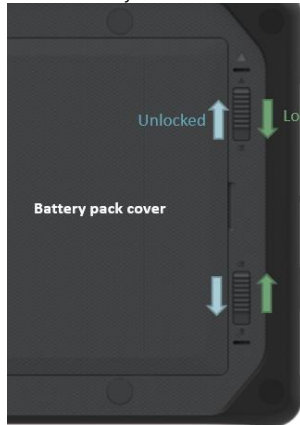
I/O	High-Density Connector	Fully Configured Unit
		1 x CAN bus (supports raw CAN, J1939, OBD-II/ISO 15765) with configurable firmware
GPS	GPS Extended	5 x Digital inputs
		1 x Odometer (supports dry and wet contact) with configurable and switchable firmware (default wet contact)
Function Keys	Key Lock	2 x Digital outputs (supports speed pulse)
		1 x RS-232 (4 wire)
Power	Input Voltage	1 x RS-232/485 (2 wire) (default RS-485, termination enabled)
		1 x USB 2.0
Mechanical	Dimensions (W x D x H)	1 x Power input 12 V 1 A
		5 x Programmable function keys
IP Rating	IP65	Anti-theft key lock (they can be removed)
		Supports 12/24 V vehicle power (0 ~ 32 V; input range)
Weight	0.77 kg (1.70 lb)	Dimensions (W x D x H): 226 x 83.08 x 250.24 mm (8.9 x 3.27 x 9.8 in)
		Weight: 0.77 kg (1.70 lb)
Storage Temperature	-10 ~ 50 °C (14 ~ 122 °F); 0 ~ 40 °C (32 ~ 104 °F) for charging	Operating Temperature: -10 ~ 50 °C (14 ~ 122 °F); 0 ~ 40 °C (32 ~ 104 °F) for charging
		Storage Temperature: -30 ~ 80 °C (-22 ~ 176 °F)
IP Rating	IP65	IP Rating: IP65

Installation instructions:

- Put the AIM-78S tablet onto the vehicle docking station
- Connect power adapter to the docking station to charge the tablet

Replacing the battery pack

- Turn off the computer and disconnect the AC adapter.
- Carefully place the computer upside down.
- Slide the battery latch to the unlocked position



- Remove the battery pack cover
- Remove the battery pack out of the slot by pulling the pull-tab.



6. Insert the new battery pack all the way into the slot
7. Put the battery pack cover back
8. Slide the battery latch to the locked position

Cleaning and Disinfecting

During normal use of the AIM tablet the device may become dirty and should be regularly cleaned.

Steps:

1. Turn off the AIM-78S and unplug the power cord.
2. Wipe the screen and exterior with a soft, damp cloth moistened only with water. Do not use liquid or aerosol cleaners on the screen, as these will discolor the finish and damage the screen.
3. Clean the LCD display only with a soft cloth dampened with 60% above isopropyl alcohol or 60% above ethyl alcohol each time after use.

Caution!



Attention!



Do not immerse or rinse the AIM tablet 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 AIM Tablet 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.

Operating Principle

The device provides input through touch panel, hard keys located at the bottom of it, accessories through USB ports or its LAN/WLAN connections. The device computes the input data with its processing unit and

then output the generated data to LCD panel, accessories or other devices through its I/O ports or through its LAN/WLAN connections. The device is able to store data in its storage, and when the device is turned off, still maintain the data in the memory units of the storage.

Connecting the Power Cord

The AIM tablet can be powered by AC/DC power adapter. Be sure to always handle the power cords by holding the plug ends only.

Follow these procedures in order:

1. Connect the DC plug of the power adapter to AIM tablet product DC in connector. (Step 1)
2. Connect the 2 pin male plug of the power cord to an electrical outlet. (Step 2)

Disposing of Old Products

Within the European Union



EU-wide legislation, as implemented in each member state, requires that waste electrical and electronic products carrying the mark shown at 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, or if applicable, follow any agreements made between you and the provider.

The mark on electrical and electronic products only applies to the current European Union Member States.

Declaration of Conformity

CE Conformity Statement

Radio products with the CE alert marking comply with the RED Directive (2014/53/EU) issued by the Commission of the European Community. Compliance with this directive implies conformity to the following European Norms (in brackets are the equivalent international standards).

- EN 62368-1 (IEC62368-1) - Product Safety
- EN 300 328 Technical requirement for radio equipment
- EN 301 893 Technical requirement for radio equipment
- ET S301 489 General EMC requirements for radio equipment

Products that contain the radio transmitter are labeled with CE alert marking and may also carry the CE logo.

FCC Compliance Statement

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 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.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example: use only shielded interface cables when connecting to computer or peripheral devices).

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.

15.21

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance. For product available in the USA/Canada market, only channel 1–11 can be operated. Selection of other channels is not possible.

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment for body-worn configuration in direct contact to the phantom.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA). These requirements set a SAR limit of 1.6 W/kg

averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body

IC warning statement

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This radio transmitter has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance are strictly prohibited for use with this device.

Le présent émetteur radio a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

(i) the device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems; (For devices installed in vehicles point i. is not required.)

Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

(i) l'appareil pour fonctionner dans la bande 5150-5250 MHz est réservé à une utilisation en intérieur afin de réduire les risques d'interférences nuisibles à la co-canal systèmes mobiles par satellite;

Devraient également être informés les utilisateurs que les radars à haute puissance sont désignés comme utilisateurs principaux (c.-à-d. utilisateurs prioritaires) des bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient provoquer des interférences et / ou endommager les appareils LE-LAN.

IC Radiation Exposure Statement

This EUT is compliance with SAR for general population/uncontrolled exposure limits in IC RSS-102.

This equipment should be installed and operated with minimum distance 0 cm between the radiator & your body.

Cet EUT est la conformité avec SAR pour la population générale / les limites d'exposition incontrolées dans IC RSS-102. Cet équipement doit être installé et utilisé à une distance minimale de 0 cm entre le radiateur et votre corps.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by the ISED. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body. Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. L'utilisateur final doit suivre les instructions spécifiques pour satisfaire les normes. Cet émetteur ne doit pas être co-implanté ou fonctionner en conjonction avec toute autre antenne ou transmetteur.

Tel: 49-211-97477350

Fax: 49-211-97477300

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

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:

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