ACM Series

User's Manual

Clinical Monitor



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Part Number: 50M-D2104-1020

LEADING EDGE AI COMPUTING

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Preface

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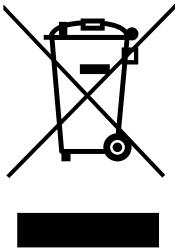
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Battery Labels (for products with battery)



California Proposition 65 Warning



WARNING: This product can expose you to chemicals including acrylamide, arsenic, benzene, cadmium, Tris(1,3-dichloro-2-propyl)phosphate (TDCPP), 1,4-Dioxane, formaldehyde, lead, DEHP, styrene, DINP, BBP, PVC, and vinyl materials, which are known to the State of California to cause cancer, and acrylamide, benzene, cadmium, lead, mercury, phthalates, toluene, DEHP, DIDP, DnHP, DBP, BBP, PVC, and vinyl materials, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Revision History

Revision	Description	Date	By
1.0	Initial release	2026-05-27	AL
1.1	Weight spec. and power input added	2026-06-23	CC/AL
1.2	Package contents and OSD Buttons updated	2026-10-16	AL

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1 Introduction

1.1 Overview

ACM is a medical-grade monitor specifically designed to comply with medical device standards for use in clinical environments. It features an AHVA panel calibrated by ADLINK to meet the DICOM Part 14 medical imaging standard, making it suitable for physicians to interpret various medical images in outpatient or diagnostic settings.

Compared to the MDR-certified ASM Series, which is designed for crucial areas areas such as operating theaters, the ACM monitor offers a more cost-effective solution, making it ideal for routine clinical applications and integration with medical devices.



ACM Series	Short Description
ACM-21T	21.5” Full HD LCD monitor
ACM-23T	23.8” Full HD LCD monitor

All display sizes are equipped with a capacitive (PCAP) touchscreen. The PCAP touchscreen supports multi-touch operation, providing easy interaction with on-screen elements such as tapping, swiping, and zooming.

The touchscreen sensitivity is sufficient to allow touch operation while the user is wearing protective gloves, as commonly used in medical environments.

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1.2 Package contents

1.2.1 Packing Information

Item	Specification			Packing Remark
	Qty	Dimension (L x W x H)	Gross Weight	
ACM-21T	1 pc. / box	805 x 270 x 633 mm	7.1 kg	With power adapter, without power cord
ACM-23T	1 pc. / box	805 x 270 x 633 mm	8.3 kg	With power adapter, without power cord

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2 Specifications

2.1 Product Specifications

	ACM-21T	ACM-23T
Display		
Size	21.5”	23.8”
Resolution	1920 x 1080	
Aspect Ratio	16:9	
Color	16.7M	
Brightness (Nits)	300 nits	
Viewing Angle (U/D/R/L)	89/89/89/89	
Contract Ratio	1000:1	
Touchscreen	10-point, PCAP, anti-fingerprint coating	
Bonding	Air bonding	
I/O		
USB Port	USB type B (for touch monitor)	
Video	DP x1, VGA x1, HDMI ® x1	
Speaker	2w speaker x2	
Power Input	External medical-grade 12V, 2.5A adapter	
Mechanical		
Dimensions (WxHxD)	520 x 335 x 61 (mm)	570 x 364 x 61 (mm)
Weight	6.5 kg	7.8 kg
Housing	Aluminium, powder-coated, anti-bacterial	
Mounting	VESA 100	
Environmental		
Operating Temperature	0C to 40C / 5% to 95% rel. humidity (non-condensing)	
Storage Temperature	-10C to 60C / 5% to 95% rel. humidity (non-condensing)	
Ingress Rating	IP54 compliant with rear cable cover attached	
Certifications	IEC 62368-1:2014; EN 62368-1:2014+A11:2017 compliant with IEC 60601-1 Ed. 3.1 & IEC 60601-1-2:2014+AMD1:2020, EN 60601-1-2: 2015+A1:2021	

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3 Mechanical Layout

3.1 Mechanical Dimensions

WARNING:

Risk of physical injuries and / or property damage:

When mounting the device, use the screws to mount the VESA bracket to the rear of the device. Tighten all four screws firmly to support the weight of the device. Make sure that the suspension system is capable of carrying the device!

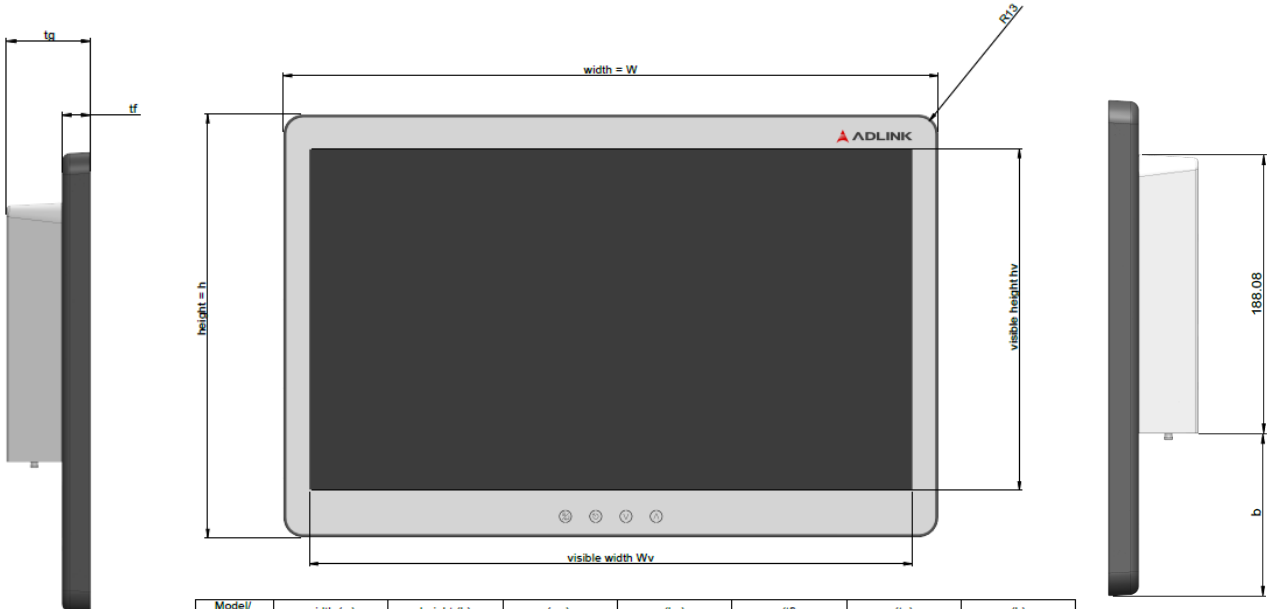
CAUTION:

Risk of burns to the user caused by hot surfaces:

Turn off power and allow the device to cool down prior to per- forming any mounting or demounting operations. Do not touch the enclosure while the device is in operation or is still hot from previous use unless it has already cooled.

NOTE:

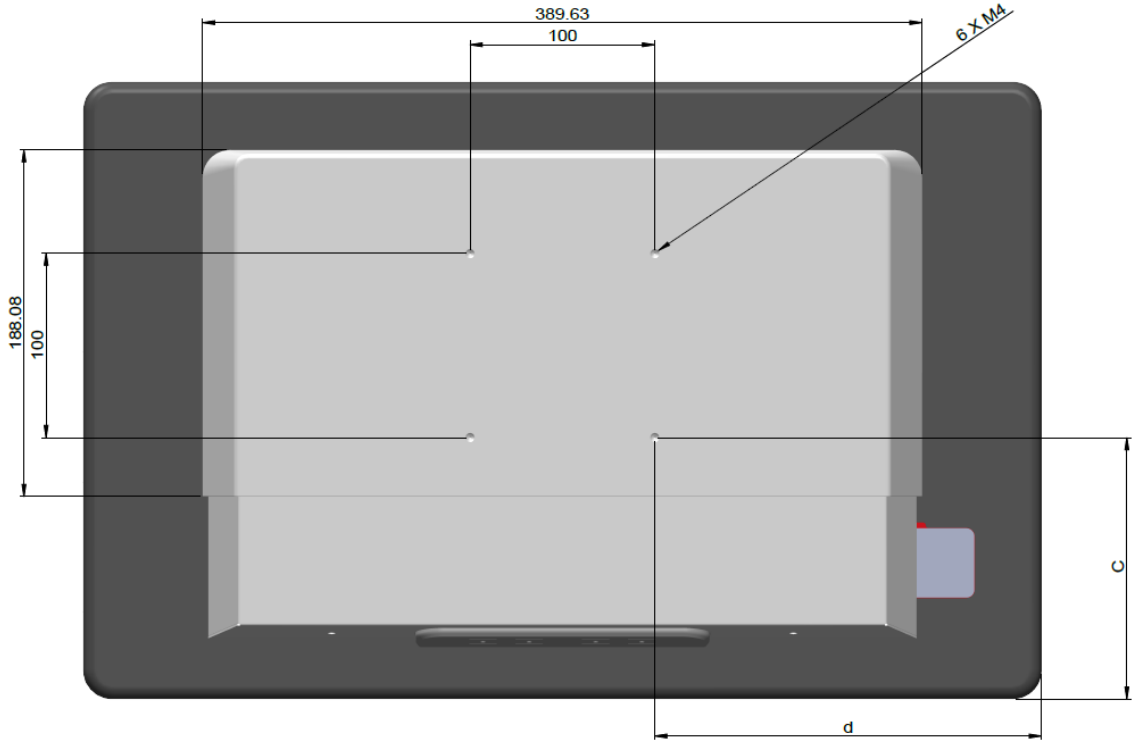
All dimensions are in millimeters, unless noted.



Model/ Configuration	width (w)	height (h)	(wv)	(hv)	(tf)	(tg)	(b)
21.5"	519.13	334.66	477.86	269.39	20.8	60.8	109.73
23.8"	569.91	363.33	528.64	298.06			124.06

Figure 1: ACM series front view

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Model/ Configuration	c (VESA interface to bottom edge display front)	d (VESA interface to lateral edge display front)
21.5"	141.73	216.35
23.8"	165.06	234.95

Figure 2: ACM series rear view

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3.2 Panel Connector Locations

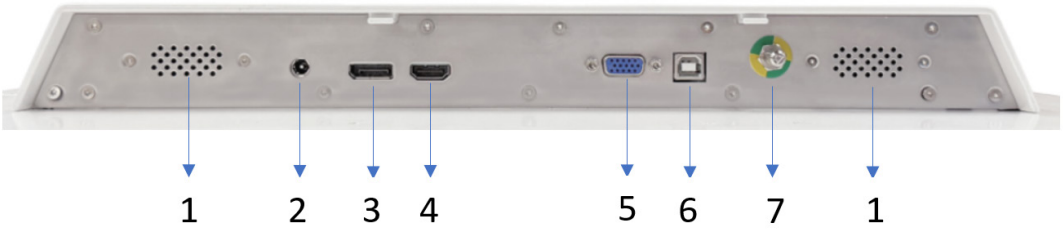


Figure 3: Panel connector locations

Table 1: Panel connector definitions

No.	Definition
1	2W Speaker
2	DC In
3	DisplayPort
4	HDMI
5	VGA
6	USB (for touch monitor only)
7	Potential equalization connecting pin

3.2.1 Potential Equalization Connecting Pin

The potential equalization connecting pin (6 mm), follows DIN 42801 color coding (yellow/green) for connecting a potential equalization cable

The equalization pin of the device must be connected to the potential equalization panel of the respective facility in accordance with local standards.

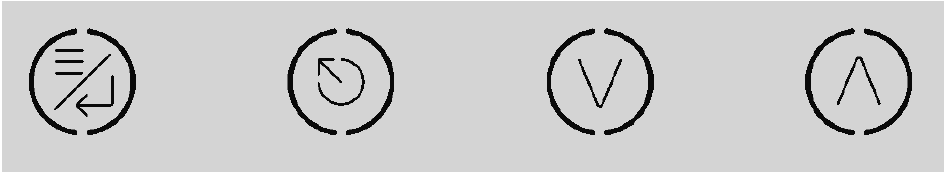


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4 OSD Buttons



1 2 3 4

Button	Name	Description	Illumination
1	Menu / Select	Press to open the submenu when the OSD menu is displayed.	White
2	Power / Menu Control	**Power On/Off:** Press and hold for 3 seconds **OSD Menu On/Off:** Press and hold for 1 second **Back:** Press to return to the main OSD menu from a submenu	Orange (Standby) Blue (On)
3	Down - Decrease	Press to move down through menu items or decrease a value.	White
4	Up - Increase	Press to move up through menu items or increase a value.	White

CAUTION:

Risk of data loss:
While switching off the device via the Standby (On / Off) button, do not hold for more than ~7 seconds. Doing so forces a hard shutdown of the device, followed by a restart / boot routine. This may cause a loss of data if it has not been saved or finished processing before shutdown.

CAUTION:

Completely powering off the device requires disconnecting the AC power cable. To prevent data loss, disconnect only after the device is in standby mode (orange indicator).

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5 Getting Started

5.1 VESA Mounting

This section includes details for panel and VESA mounting options.

NOTE:

All dimensions are in millimeters, unless noted. All I/O ports of ACM-21T/23T must face down.

It is recommended to use four M4 screws with a length of 8 mm.

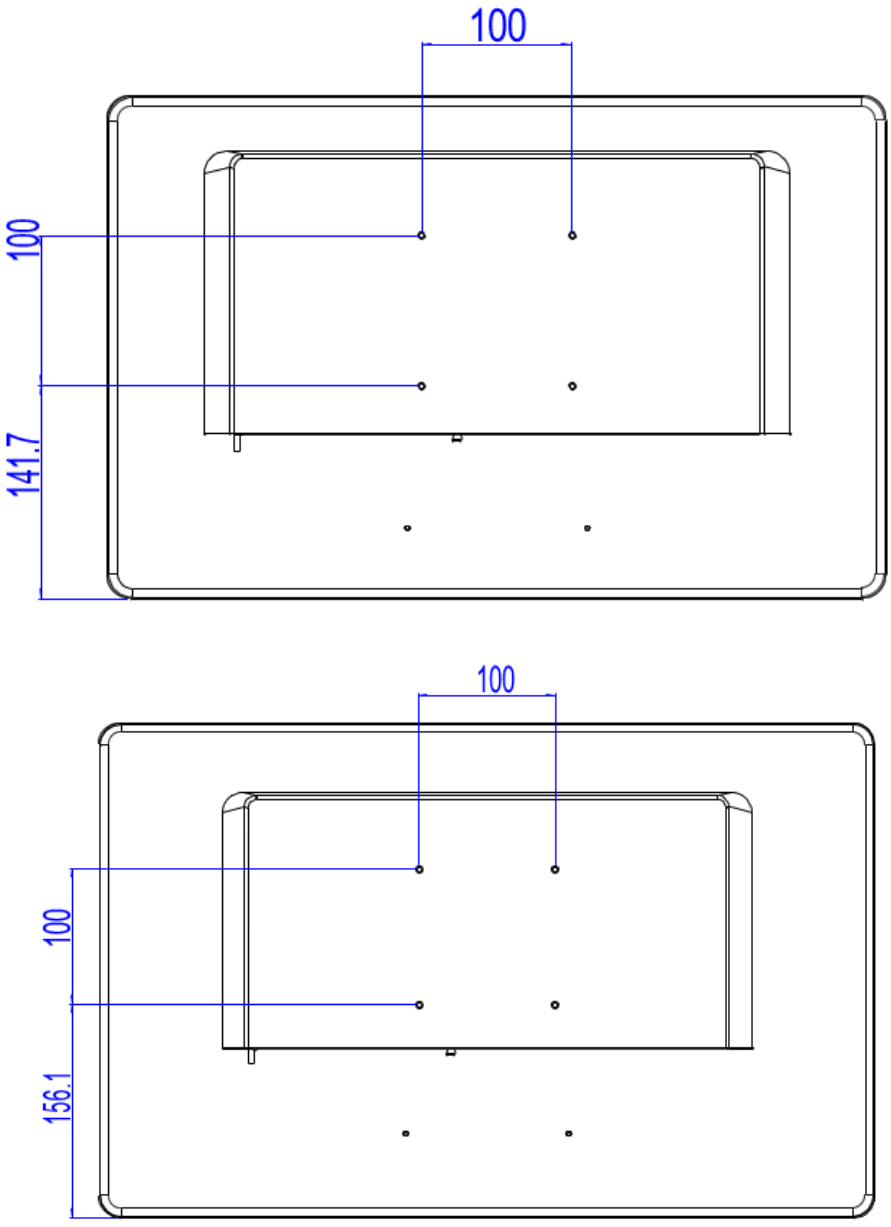


Figure 5: ACM-23T VESA mounting

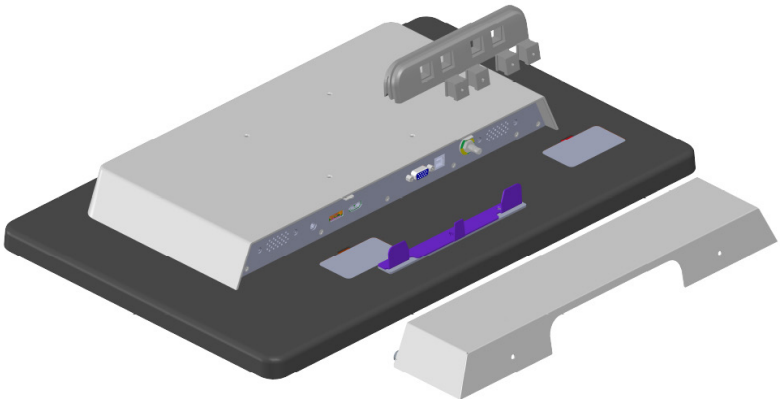
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5.2 Initial Device Installation and Cable Cover Handling

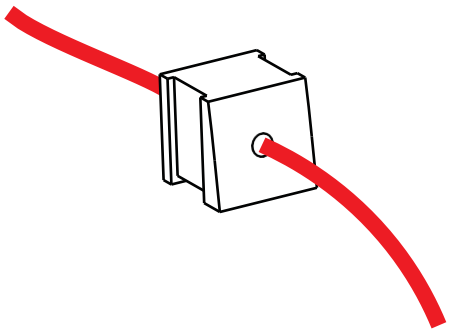
The device ships with the cable cover preinstalled. To maintain the IP rating, the power cable must be routed through the cover before being connected to the device. This also applies to any peripheral cables.

To connect cables to the device:

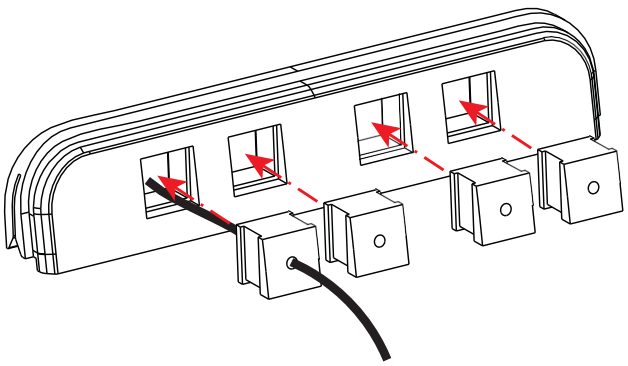
1. Place the ACM device with the front side facing down onto a stable working platform protected by a soft sur- face. Remove the cable cover by pulling it down. The cover is magnetized.



2. Feed the cables through their respective gaskets. Make sure to choose gasket sizes suitable for the cables. For gaskets without cables, make sure to use gaskets with- out holes.

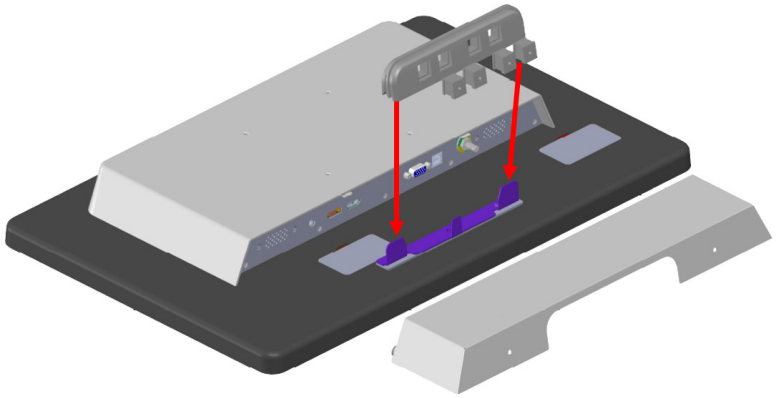


3. Feed the cables with their gaskets through the rubber frame, and seat the gaskets within the rubber frame.



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4. Attach the rubber frame over the mounting plate by inserting the tabs of plate into the slots of the frame.



5. Reinstall the cover. Make sure the cover fits snuggly around the rubber frame.

5.3 Cleaning and Disinfection

CAUTION:

Risk of data loss or accidental operation:

Make sure device is in stand-by mode or touch functionality is disabled before cleaning to avoid accidental operation. To disable touch functionality, press and hold **Enable/Disable Touchscreen and Buttons** for 3 seconds.

Avoid disinfectants based on chlorine, chlorine-releasing sub- stances, or peroxide compounds. These ingredients can lead to damage to the device, especially if the surface has prior damage (e.g., a scratch), particularly long-term use of these type of disinfectant solutions.

For disinfection, use a spray applicator to apply any of the approved liquids and use a soft, lint-free cloth to clean the screen. Thoroughly follow the disinfection manufacturer's guidelines for cleaning your device.

Where a simple wipe-down of the device is sufficient, use a soft, damp, and lint-free cloth only to wipe the surface of the device. If the device is only lightly soiled, use a dry anti-static cloth instead.

For cleaning the glass / touch-sensitive surfaces of the device, a simple household glass cleaner available in consumer markets may be used. After spray application of the glass cleaner, use a soft, lint-free cloth to wipe the device front until all liquid films are removed.

As a general safety precaution, your ADLINK product should undergo decontamination before returning the device to ADLINK for service, repair, inspection, or disposal.

NOTE:

Contaminated items must not be returned without prior written agreement.

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Safety Instructions

For user safety, please read and follow all instructions, Warnings, Cautions, and Notes marked in this manual and on the associated device before handling/operating the device, to avoid injury or damage.

- Read these safety instructions carefully.
- Keep the User's Manual for future reference.
- Read the Specifications section of this manual for detailed information on the recommended operating environment.
- It is recommended that the device be installed in Information Technology Rooms that are in accordance with Article 645 of the National Electrical Code and NFPA 75.
- When installing/mounting or uninstalling/removing device is required:
  - Turn off power and unplug any power cords/cables.
  - Reinstall all chassis covers before restoring power.
- To avoid electrical shock and/or damage to device:
  - Keep device away from high heat or humidity.
  - Keep device properly ventilated (do not block or cover ventilation openings).
  - Always use recommended voltage and power source set- tings.
  - Always install and operate device near an easily accessible electrical outlet.
  - Secure the power cord (do not place any object on/over the power cord).
  - Only install/attach and operate device on stable surfaces and/or recommended mountings.
  - The device is powered by an adapter or DC source. Ensure that the adapter or DC source is properly grounded.
- If the device will not be used for long periods of time, turn off and unplug from its power source.
- Never attempt to repair the device, which should only be serviced by qualified technical personnel using suitable tools.
- A Lithium-type battery may be provided for uninterrupted backup or emergency power.



Risk of explosion if battery is replaced with one of an incorrect type; please dispose of used batteries appropriately.

- The device must be serviced by authorized technicians when:
  - The power cord or plug is damaged
  - Liquid has entered the device interior
  - The device has been exposed to high humidity and/or moisture
  - The device is not functioning or does not function accord- ing to the User's Manual
  - The device has been dropped and/or damaged and/or shows obvious signs of breakage
- Disconnect the power supply cord before loosening the thumbscrews and always fasten the thumbscrews with a screwdriver before starting the system up.
- It is recommended that the device be installed only in a server room or computer room where access is:
  - Restricted to qualified service personnel or users familiar with restrictions applied to the location, reasons therefor, and any precautions required
  - Only afforded by the use of a tool or lock and key, or other means of security, and controlled by the authority responsible for the location.
- If you'd like to change PCIe card expansion slot configuration, please contact your ADLINK representative for options.

	**BURN HAZARD** Touching this surface could result in bodily injury. To reduce risk, allow the surface to cool before touching.

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EMC Compliance

CE Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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Getting Services

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ADLINK Technology, Inc.
Address: No. 66, Huaya 1st Road, Guishan District
Taoyuan City 333, Taiwan
Tel: +886-3-216-5088
Fax: +886-3-328-5723
Email: service@adlinktech.com

Ampro ADLINK Technology, Inc.
Address: 6450 Via Del Oro, San Jose, CA 95119-1208, USA
Tel: +1-408-360-0200
Toll Free: +1-800-966-5200 (USA only)
Fax: +1-408-600-1189
Email: info@adlinktech.com

ADLINK Technology (China) Co., Ltd.
Address: 300 Fang Chun Rd., Zhangjiang Hi-Tech Park, Pudong New Area
Shanghai, 201203 China
Tel: +86-21-5132-8988
Fax: +86-21-5132-3588
Email: market@adlinktech.com

ADLINK Technology GmbH
Address: Hans-Thoma-Strasse 8-10, 68163 Mannheim, Germany
Tel: +49-621-43214-0
Fax: +49-621 43214-30
Email: emea@adlinktech.com

Please visit the Contact page at www.adlinktech.com for information on how to contact the ADLINK regional office nearest you.

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