Titan2 Rugged Monitor

User's Manual

21.5-inch Full HD Projected Capacitive (PCAP) IP69K
Stainless Steel Industrial Monitor



Manual Rev.: Rev. 1.0
Revision Date: August 10, 2026
Part Number: 50M-P5300-2000

LEADING EDGE AI COMPUTING

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Revision History

Revision	Description	Date	By
1.0	Initial release	2026-08-10	AL

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Preface

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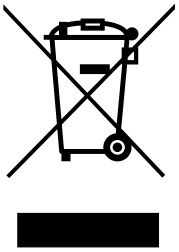
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Disclaimer

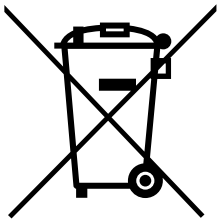
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ADLINK is committed to fulfill its social responsibility to global environmental preservation through compliance with the European Union's Restriction of Hazardous Substances (RoHS) directive and Waste Electrical and Electronic Equipment (WEEE) directive. Environmental protection is a top priority for ADLINK. We have enforced measures to ensure that our products, manufacturing processes, components, and raw materials have as little impact on the environment as possible. When products are at their end of life, our customers are encouraged to dispose of them in accordance with the product disposal and/or recovery programs prescribed by their nation or company.



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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Product names mentioned herein are used for identification purposes only and may be trademarks and/or registered trademarks of their respective companies.

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Conventions

Take note of the following conventions used throughout this manual to make sure that users perform certain tasks and instructions properly.



NOTE: Additional information, aids, and tips that help users perform tasks.



CAUTION: Information to prevent ***minor*** physical injury, component damage, data loss, and/or program corruption when trying to complete a task.



WARNING: Information to prevent ***serious*** physical injury, component damage, data loss, and/or program corruption when trying to complete a specific task.

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1 Introduction

1.1 Overview

The Titan2 Series IP69K Stainless Steel Rugged Monitor is designed for monitoring and controlling production processes in industries required to meet stringent hygiene standards. Encased in an IP69K-rated stainless steel housing, the Titan2 Series can withstand high-pressure hot-water cleaning, oxidative damage, and other chemical reactions. Its flush front panel surface and sleek rear chassis design prevent water from retaining on the surface after cleaning, ensuring easy maintenance and improved hygiene.

1.2 Features

- Full IP69K rating for dust and water ingress protection
- Corrosion-resistant 304 stainless steel enclosure (316 stainless steel available as an option)
- M12-type connectors suitable for harsh environments
- Optical bonding and high brightness (1,000 nits)
- Standard VESA mounting with optional yoke/pipe mounting

1.3 Package Contents

Before unpacking, inspect the shipping carton for any damage. If the shipping carton and/or its contents are damaged, notify your dealer immediately. Retain the shipping carton and packing materials for inspection. Obtain authorization from your dealer before returning any product to ADLINK. Ensure that the following items are included in the package:

- 1× Titan2 Series IP69K Stainless Steel Monitor
- M12 connector-to-VGA cable
- M12 connector-to-USB 2.0 cable (for touch functionality)
- Waterproof HDMI cable
- AC/DC adapter: 24 V, 160 W, M12 connector

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2 Specifications

2.1 Product Specifications

Model Name	Titan2 Monitor 215
Display	
Size	21.5"
Resolution (Max.)	1920 x 1080
Aspect Ratio	16:9
Color	16.7M
Brightness	1000 nits
Backlight Life (Hrs.)	50,000
Viewing Angle (U/D/R/L)	89/89/89/89
Contrast Ratio	1000: 1
Touchscreen	PCAP Multi-point Touch
Bonding	Optical bonding
I/O Interface	
Video	1x HDMI with waterproof cover 1x M12 VGA with waterproof cover
USB	1x M12 USB 2.0 with waterproof cover for touch
Power Input	1x M12 for DC power
Optional	2x IP65 speaker (optional)
Mechanical	
Dimensions (mm) (H x W x D)	329.19 x 521.4 x 44 (21.5")
Gross Weight	7kg
Mounting	VESA 100x100 mm Mounting
Environmental	
Operating Temperature	STD: -10 to 50°C
Storage Temperature	-20°C to +60°C
Humidity	~95% @ 40°C (104°F) (non-condensing)
Vibration	**MIL-STD-810H, 514.8C-I** Common carrier for Operational **MIL-STD-810H, 514.8C-IV** Composite two-wheeled trailer vibration exposure for non-operating
Shock	Operating: 20G acceleration part to part, 11ms
IP Rating	IP69K
EMC	CE/FCC

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3 Block Diagram

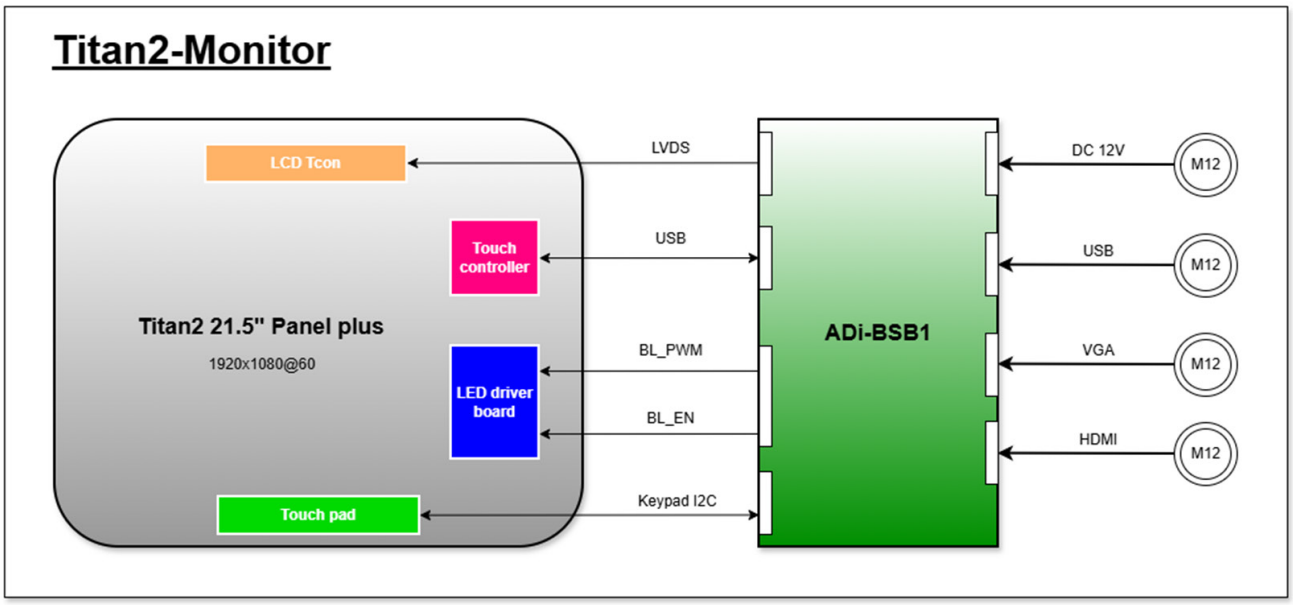


Figure 1: Functional block diagram

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4 Mechanical Layout

NOTE:

All dimensions are in millimeters, unless noted.

4.1 Mechanical Dimensions

4.1.1 Front View

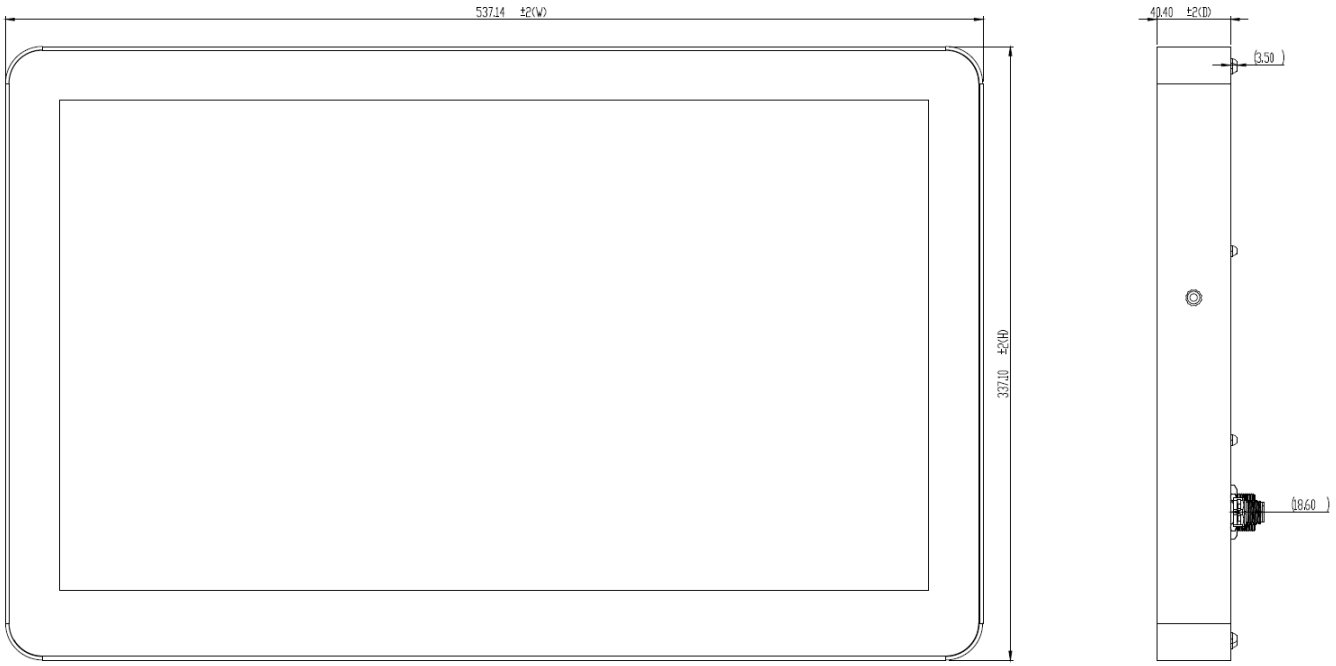


Figure 2: Mechanical dimensions (front view)

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4.1.2 Rear View

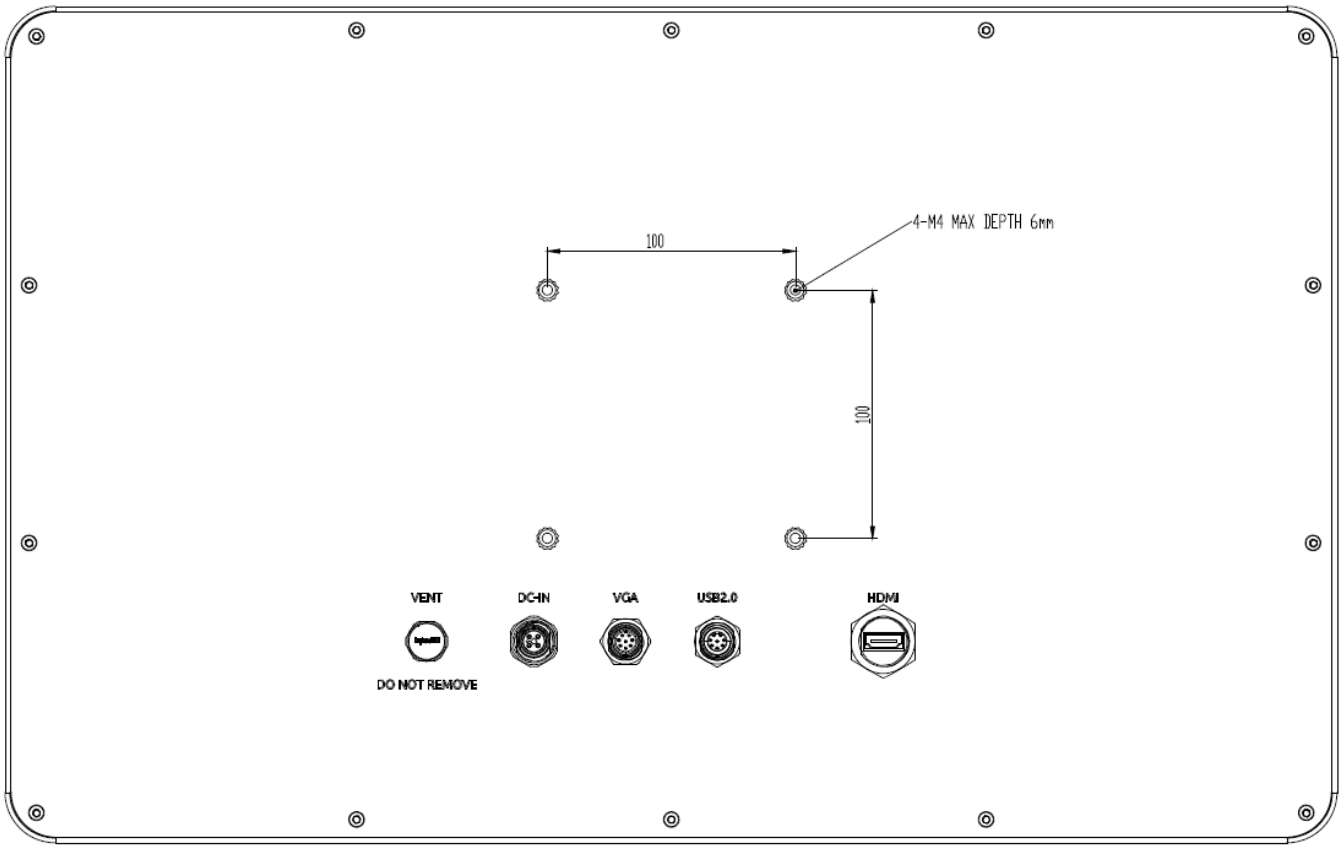


Figure 3: Mechanical dimensions (Rear view)

4.2 Connector Locations

4.2.1 External I/O Connectors

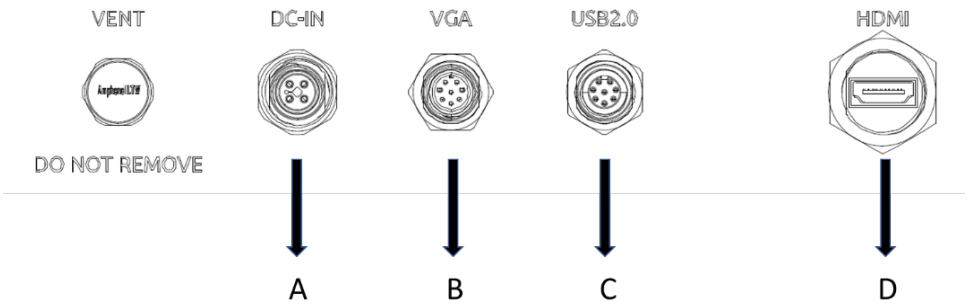
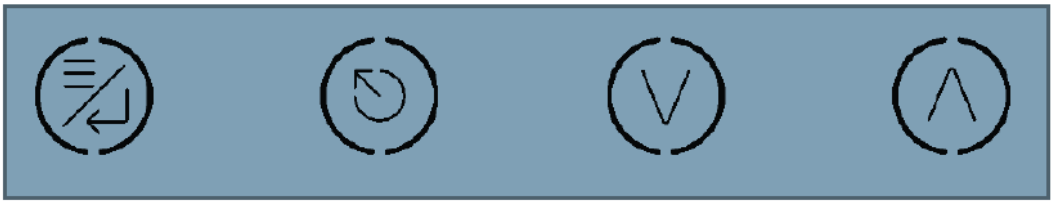


Table 1: External I/O connectors

A	1x M12 for DC power	T-coded
B	1x M12 for VGA	A-coded
C	1x M12 for USB2.0	A-coded
D	1x Waterproof HDMI	

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5 OSD Buttons



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 the menu items or decrease a value.	White
4	Up - Increase	Press to move up through the menu items or increase a value.	White

5.1 Supported Display Timing

No	Resolution	Pixel Rate (MHz)	H Freq. (KHz)	V Freq. (Hz)
1	640x480 @ 60Hz (VGA)	25.175	31.469	59.940
2	800x600 @ 60Hz (SVGA)	40.000	37.879	60.320
3	1024x768 @ 60Hz (XGA)	65.000	48.363	60.000
4	1280x768 @ 60Hz	79.500	47.776	59.870
5	1280x800 @ 60Hz (WXGA)	83.500	49.702	59.810
6	1280x1024 @ 60Hz (SXGA)	108.000	63.981	60.020
7	1360x768 @ 60Hz	85.500	47.712	60.020
8	1440x900 @ 60Hz	121.750	55.935	59.890
9	1680x1050 @ 60Hz (WSXGA)	146.250	65.290	59.950
10	1920x1080 @ 60Hz (FHD)	148.500	67.500	60.000

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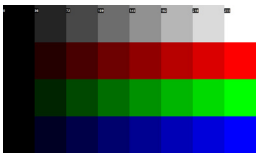
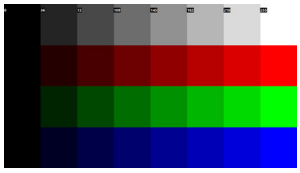
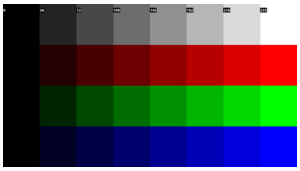
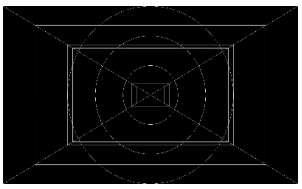
5.2 OSD Menu Tree

Main Menu	Sub-Menu1	Sub-Menu2	Item	Value/Range	Default Value	Description
Luminace	Brightness		Slider	0-100	100	Adjusts luminance
	Contrast		Slider	0-100	50	Adjusts Contrast
	Super Resolution		Text	Off Weak Medium Strong Strongest	Off	Select video performance enhancement
Picture	Phase		Slider	0-100	by VGA adjust	Adjusts VGA signal clock phase (VGA only)
	Clock		Slider	0~100	by VGA adjust	Adjusts VGA signal clock latency (VGA only)
	H.Position		Slider	0-100	by VGA adjust	Adjusts VGA screen horizontal position (VGA only)
	V.Postion		Slider	0-100	by VGA adjust	Adjusts VGA screen vertical position (VGA only)
Color	Color Temperature		Text	5000K 6500K 9300K sRGB User Define	6500K	Selects color temperature Target CIE 1931 (x,y): 5000K: (0.345, 0.355) 6500K: (0.313, 0.329) 9300K: (0.283, 0.297) sRGB: (0.313, 0.329) tolerance: follow panel specs. sRGB Contrast ratio follow the minimum of panel spec
		Red	Slider	0-100	100	Adjusts red gain value
		Green	Slider	0-100	100	Adjusts green gain value
		Blue	Slider	0-100	100	Adjusts blue gain value
OSD Settings	Horizontal		Slider	0-100	50	Sets OSD menu horizontal position
	Vertical		Slider	0-100	50	Sets OSD menu vertical position
	Transparency		Slider	0-4	0	Sets OSD menu transparency
	OSD Time Out		Slider	5-60 (Sec)	60	Sets OSD menu time out
Setup	Input		Text	D-Sub HDMI	N/A	Selects input source (Can't select DP source)
	Reset		Text	Yes/No	No	Resets user settings

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5.3 Luminace



OSD Function	Function description	Test pattern	Verification Method
Brightness	Controls the BLU (backlight) to adjust luminance. The value range is 0~100.	LUMINANCE > DIVIDE of Hyundai test software 	When adjusting the Brightness value, the gray level must not shift. Only the luminance should change.
Contrast	Controls gray-level gain to adjust contrast. The value range is 0~100.	LUMINANCE > DIVIDE of Hyundai test software 	When adjusting the Contrast value, the gray-level distribution should change while the luminance remains unchanged.
Super Resolution	Adjusts video performance enhancement. Five levels are provided for selection.	LUMINANCE > DIVIDE of Hyundai test software  ALIGN > CENTER of Hyundai test software 	When selecting the Super Resolution level, the color gray levels should become more vivid, and lines should become sharper (TBD).

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5.4 Color



OSD Function	Function description	Test pattern	Verification Method
Color Temperature	Selects the color temperature. Target CIE 1931 (x,y): 5000K: (0.345, 0.355) 6500K: (0.313, 0.329) 9300K: (0.283, 0.297) sRGB: (0.313, 0.329) Criteria: • Measure the panel center at gray level 255 (full white). The tolerance shall comply with the panel specification. • The sRGB contrast ratio shall meet the minimum requirement specified in the panel specification.	CENTER > NORMAL 9 of Hyundai test software 	Criteria: Measure the panel center at gray level 255 (full white). The tolerance shall comply with the panel specification. The sRGB contrast ratio shall meet the minimum requirement specified in the panel specification. When the Color Temperature setting is changed, the gray level shall change to the selected color temperature. When the OSD enters the Color Temperature page, the Contrast value shall be set to 50.

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6 Getting Started

6.1 VESA Mounting

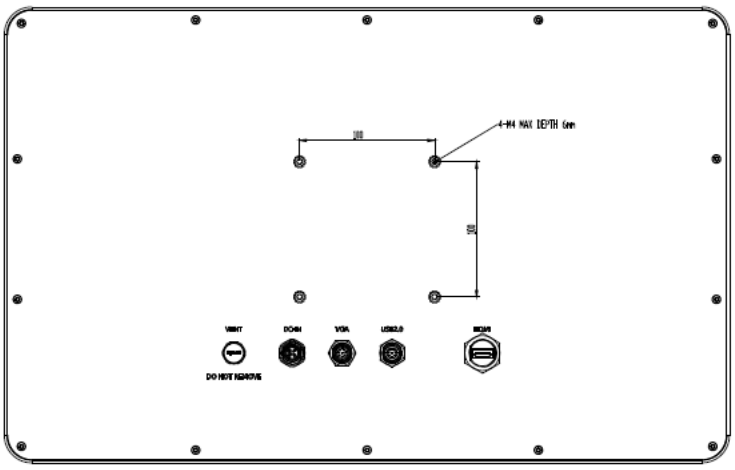
This section includes details for VESA mounting options.

NOTE:

All dimensions are in millimeters, unless noted.

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.



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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.

S'il vous plaît prêter attention stricte à tous les avertissements et mises en garde figurant sur l'appareil , pour éviter des blessures ou des dommages.

- Read these safety instructions carefully.
- Read the Specifications section of this manual for detailed information on the recommended operating environment.
- When installing/mounting or uninstalling/removing device; or when removal of a chassis cover is required for user servicing:
  - 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 water or liquid sources.
  - 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 settings.
  - 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) and connect it to a socket-outlet with earthing connection.
  - Only install/attach and operate device on stable surfaces and/or recommended mountings.
- 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.

Risque d'explosion si la pile est remplacée par une autre de type incorrect. Veuillez jeter les piles usagées de façon appropriée.

- 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 according 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.
  - The equipment is not intended to be installed or used in a home, school, or public area accessible to the general population.
  - The knurled thumb screws with slotted heads for each Node module should be tightened with a tool after both initial installation and subsequent use.
- 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 therefore, 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.
- Please use an approved power source certified by IEC or UL. If you need an adapter, optional accessories, or further assistance, please contact ADLINK for more information.

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

RISQUE DE BRÛLURES
Ne touchez pas cette surface, cela pourrait entraîner des blessures. Pour éviter tout danger, laissez la surface refroidir avant de la toucher.

- Lisez attentivement ces consignes de sécurité
- *Conservez le manuel de l'utilisateur pour pouvoir le consulter ultérieurement*
- *Lisez la section Spécifications de ce manuel pour des informations détaillées sur l'environnement d'exploitation recommandé*
- Lors de l'installation/montage ou de la désinstallation/retrait de l'appareil ; ou lorsque le retrait d'un boîtier est nécessaire pour l'entretien par l'utilisateur (voir Mise en route) :
  - Éteignez l'alimentation et débranchez tous les cordons/câbles d'alimentation.
  - Réinstallez tous les panneaux du boîtier avant de remettre l'alimentation sous tension.
- *Pour éviter les chocs électriques et/ou d'endommager l'appareil :*

  - *Tenez l'appareil à l'écart de toute source d'eau ou de liquide*
  - *Tenez l'appareil à l'écart d'une forte chaleur ou d'une humidité élevée*
  - *Maintenez l'appareil correctement ventilé (n'obstruer ou ne couvrez pas les ouvertures de ventilation)*
  - *Utilisez toujours les réglages de tension et de source d'alimentation recommandés*
  - *Installez et utilisez toujours l'appareil près d'une prise de courant facilement accessible*
  - Fixez le cordon d'alimentation (ne placez aucun objet sur/au-dessus du cordon d'alimentation) et connectez-le à une prise de courant avec mise à la terre
- N'essayez jamais de réparer l'appareil, qui doit être réparé uniquement par du personnel technique qualifié *et utilisant des outils appropriés.*
  - *Lors de l'installation/montage ou de la désinstallation/retrait d'un périphérique, ou lorsque le retrait d'un couvercle de châssis est requis pour l'entretien par l'utilisateur :*
  - *Coupez l'alimentation et débranchez tous les cordons/câbles d'alimentation.*
- *Réinstallez tous les capots du châssis avant de rétablir l'alimentation. Installez/fixez et utilisez l'appareil uniquement sur des surfaces stables et/ou des supports recommandés.*
- *Si l'appareil n'est pas utilisé pendant une longue période, éteignez-le et débranchez-le de sa source d'alimentation.*
- *Une batterie de type lithium peut être fournie pour une alimentation de secours ou de secours ininterrompue.*

  - *L'appareil doit être réparé par des techniciens agréés lorsque :*
  - *Le cordon d'alimentation ou la fiche est endommagé.*
  - *Du liquide est entré dans l'appareil. € L'appareil a été exposé à une humidité élevée et/ou à l'humidité.*
  - *L'appareil ne fonctionne pas ou ne fonctionne pas conformément au manuel de l'utilisateur.*

- *L'appareil est tombé et/ou a été endommagé et/ou présente des signes évidents de casse.*
- *Débranchez le cordon d'alimentation avant de desserrer les vis moletées et fixez toujours les vis moletées avec un tournevis avant de démarrer le système.*
  - *L'équipement n'est pas destiné à être installé ou utilisé dans une maison, une école ou une zone publique accessible au grand public.*
  - *Les vis à molette avec têtes fendue pour chaque module Node doivent être serrées avec un outil après l'installation initiale et lors de l'utilisation suivante.*
- *Il est recommandé d'installer l'appareil uniquement dans une salle de serveurs ou une salle informatique dont l'accès est :*

  - *Réservé au personnel de service qualifié ou aux utilisateurs familiers avec les restrictions appliquées à l'emplacement, les raisons de celles-ci et les précautions requises.*
  - *Autorisé uniquement par l'utilisation d'un outil ou d'une serrure et d'une clé, ou d'autres moyens de sécurité, et contrôlé par l'autorité responsable du lieu.*

Veuillez utiliser une source d'alimentation approuvée et certifiée par la norme IEC ou UL. Si vous avez besoin d'un adaptateur, d'accessoires en option ou d'une assistance supplémentaire, veuillez contacter ADLINK pour plus d'informations.

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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

Ask an Expert: https://www.adlinktech.com/en/Askanexpert

ADLINK Technology, Inc.
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Fax: +886-3-328-5723
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