Lanner

Network Appliance Platform

Hardware Platforms for Network Computing

1U Slide Rackmount Rail Installation Guide

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About this Document

This manual describes the overview of the various functionalities of this product, and the information you need to get it ready for operation. It is intended for those who are:
- responsible for installing, administering and troubleshooting this system or Information Technology professionals.
- assumed to be qualified in the servicing of computer equipment, such as professional system integrators, or service personnel and technicians.

The latest version of this document can be found on Lanner's official website, available either through the product page or through the Lanner Download Center page with a login account and password.

Icons Descriptions

This document utilizes different icons in order to make selected text more transparent and explicable to users.

Icon	Usage
Note or Information	This mark indicates that there is something you should pay special attention to while using the product.
Warning or Important	This mark indicates that there is a caution or warning and it is something that could damage your property or product.

Online Resources & Technical Support

To obtain additional documentation resources and software updates for your system, please visit the Lanner Download Center.   For troubleshooting the issues with your system, please check the Lanner Q&A page for a diagnostic procedure and troubleshooting steps.

In addition to contacting your distributor or sales representative, you could submit a request to our Lanner Technical Support page to fill in a support ticket to our technical support department.

Documentation Feedback

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Safety Guidelines

Follow these guidelines to ensure general safety:
- Keep the chassis area clear and dust-free during and after installation.
- Do not wear loose clothing or jewelry that could get caught in the chassis. Fasten your tie or scarf and roll up your sleeves.
- Wear safety glasses if you are working under any conditions that might be hazardous to your eyes.
- Do not perform any action that creates a potential hazard to people or makes the equipment unsafe.
- Disconnect all power by turning off the power and unplugging the power cord before installing or removing a chassis or working near power supplies
- Do not work alone if potentially hazardous conditions exist.
- Never assume that power is disconnected from a circuit; always check the circuit.

Consignes de sécurité

Suivez ces consignes pour assurer la sécurité générale :
- Laissez la zone du châssis propre et sans poussière pendant et après l'installation.
- Ne portez pas de vêtements amples ou de bijoux qui pourraient être pris dans le châssis. Attachez votre cravate ou écharpe et remontez vos manches.
- Portez des lunettes de sécurité pour protéger vos yeux.
- N'effectuez aucune action qui pourrait créer un danger pour d'autres ou rendre l'équipement dangereux.
- Coupez complètement l'alimentation en éteignant l'alimentation et en débranchant le cordon d'alimentation avant d'installer ou de retirer un châssis ou de travailler à proximité de sources d'alimentation.
- Ne travaillez pas seul si des conditions dangereuses sont présentes.
- Ne considérez jamais que l'alimentation est coupée d'un circuit, vérifiez toujours le circuit. Cet appareil génère, utilise et émet une énergie radiofréquence et, s'il n'est pas installé et utilisé conformément aux instructions des fournisseurs de composants sans fil, il risque de provoquer des interférences dans les communications radio.

Operating Safety

- Electrical equipment generates heat. Ambient air temperature may not be adequate to cool equipment to acceptable operating temperatures without adequate circulation. Be sure that the room in which you choose to operate your system has adequate air circulation.
- Ensure that the chassis cover is secure. The chassis design allows cooling air to circulate effectively. An open chassis permits air leaks, which may interrupt and redirect the flow of cooling air from internal components.
- Electrostatic discharge (ESD) can damage equipment and impair electrical circuitry. ESD damage occurs when electronic components are improperly handled and can result in complete or intermittent failures. Be sure to follow ESD-prevention procedures when removing and replacing components to avoid these problems.
- Wear an ESD-preventive wrist strap, ensuring that it makes good skin contact. If no wrist strap is available, ground yourself by touching the metal part of the chassis.
- Periodically check the resistance value of the antistatic strap, which should be between 1 and 10 megohms (Mohms).

Sécurité de fonctionnement

- L'équipement électrique génère de la chaleur. La température ambiante peut ne pas être adéquate pour refroidir l'équipement à une température de fonctionnement acceptable sans circulation adaptée. Vérifiez que votre site propose une circulation d'air adéquate.
- Vérifiez que le couvercle du châssis est bien fixé. La conception du châssis permet à l'air de refroidissement de bien circuler. Un châssis ouvert laisse l'air s'échapper, ce qui peut interrompre et rediriger le flux d'air frais destiné aux composants internes.
- Les décharges électrostatiques (ESD) peuvent endommager l'équipement et gêner les circuits électriques. Des dégâts d'ESD surviennent lorsque des composants électroniques sont mal manipulés et peuvent causer des pannes totales ou intermittentes. Suivez les procédures de prévention d'ESD lors du retrait et du remplacement de composants.
- Portez un bracelet anti-ESD et veillez à ce qu'il soit bien au contact de la peau. Si aucun bracelet n'est disponible, reliez votre corps à la terre en touchant la partie métallique du châssis.
- Vérifiez régulièrement la valeur de résistance du bracelet antistatique, qui doit être comprise entre 1 et 10 mégohms (Mohms).

Mounting Installation Precautions

The following should be put into consideration for rack-mount or similar mounting installations:

- Do not install and/or operate this unit in any place that flammable objects are stored or used in.
- The installation of this product must be performed by trained specialists; otherwise, a non-specialist might create the risk of the system's falling to the ground or other damages.
- Lanner Electronics Inc. shall not be held liable for any losses resulting from insufficient strength for supporting the system or use of inappropriate installation components.
- Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.
- Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of airflow required for safe operation of the equipment is not compromised.
- Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- Reliable Grounding - Reliable grounding of rack mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

Installation & Operation

- This equipment must be grounded. The power cord for product should be connected to a socket-outlet with earthing connection.
  Cet équipement doit être mis à la terre. La fiche d'alimentation doit être connectée à une prise de terre correctement câblée
- Suitable for installation in Information Technology Rooms in accordance with Article 645 of the National Electrical Code and NFPA 75.
  Peut être installé dans des salles de matériel de traitement de l'information conformément à l'article 645 du National Electrical Code et à la NFPA 75.
- The machine can only be used in a restricted access location and must be installed by a skilled person.
  Les matériels sont destinés à être installés dans des EMPLACEMENTS À ACCÈS RESTREINT.

Warning

Class I Equipment. This equipment must be earthed. The power plug must be connected to a properly wired earth ground socket outlet. An improperly wired socket outlet could place hazardous voltages on accessible metal parts.
"Product shall be used with Class 1 laser device modules."

Avertissement

Équipement de classe I. Ce matériel doit être relié à la terre. La fiche d'alimentation doit être raccordée à une prise de terre correctement câblée. Une prise de courant mal câblée pourrait induire des tensions dangereuses sur des parties métalliques accessibles.
"Le produit doit être utilisé avec des modules de dispositifs laser de classe 1."

CAUTION: TO DISCONNECT POWER, REMOVE ALL POWER CORDS FROM UNIT.
注意：要断开电源，请将所有电源线从本机上拔下。
WARNUNG: Wenn Sie das Gerät zwecks Wartungsarbeiten vom Netz trennen müssen, müssen Sie beide Netzteile abnehmen.
ATTENTION: DÉBRANCHER LES TOUT CORDONS D'ALIMENTATION POUR DÉCONNECTER L'UNITÉ DU SECTEUR.
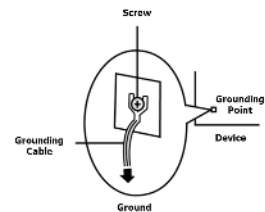
Electrical Safety Instructions

Before turning on the device, ground the grounding cable of the equipment. Proper grounding (grounding) is very important to protect the equipment against the harmful effects of external noise and to reduce the risk of electrocution in the event of a lightning strike. To uninstall the equipment, disconnect the ground wire after turning off the power. A ground wire (green-and-yellow) is required and the part connecting the conductor must be greater than 4 mm2 or 10 AWG.

Consignes de sécurité électrique

▶ Avant d'allumer l'appareil, reliez le câble de mise à la terre de l'équipement à la terre.
▶ Une bonne mise à la terre (connexion à la terre) est très importante pour protéger l'équipement contre les effets néfastes du bruit externe et réduire les risques d'électrocution en cas de foudre.
▶ Pour désinstaller l'équipement, débranchez le câble de mise à la terre après avoir éteint l'appareil.
▶ Un câble de mise à la terre est requis et la zone reliant les sections du conducteur doit faire plus de 4 mm2 ou 10 AWG.

Grounding Procedure for DC Power Source

▶ Connect the grounding cable to the ground.
▶ The protection device for the DC power source must provide 30 A current.
▶ This protection device must be connected to the power source before DC power.

Procédure de mise à la terre pour source d'alimentation CC

▶ Branchez le câble de mise à la terre à la terre.
▶ L'appareil de protection pour la source d'alimentation CC doit fournir 30 A de courant.
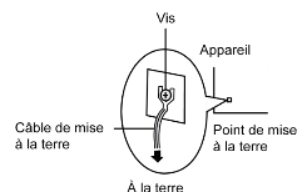▶ Cet appareil de protection doit être branché à la source d'alimentation avant l'alimentation CC.

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Table of Contents

CHAPTER 1: GETTING STARTED

Lanner provides a variety of rack mounting options for our appliances. The rack mount kit is included with some systems, or may be purchased as an accessory for existing systems.

Applied Models:

All Lanner 1U Appliance Models

Package Content

The mounting kit contains the following items:

- ▶ 1x pack of Screws (for securing the rail brackets on the system)
- ▶ 2x Slide Rails

Ensure that you have the following tools available:

- ▶ 1x Screwdriver, number 2

CHAPTER 2: INSTALLATION

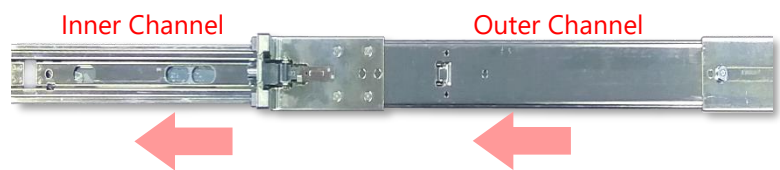You can mount the network appliance on four posts in a 19-in rack or cabinet by using the rail mount kit.

> **Note**
> 1. Installing the device in a rack requires two people: one person lifts the device while the other secures it to the rack.
>
> 2. If you are installing multiple devices in one rack, install the lowest one first and proceed upward in the rack.

Slide Rail Part Explanation:

Bracket   Inner Channel   Outer Channel

Attaching the Brackets to the System

1. Unpack a slide rail and slide the inner channel all the way to its end.

Inner Channel   Outer Channel
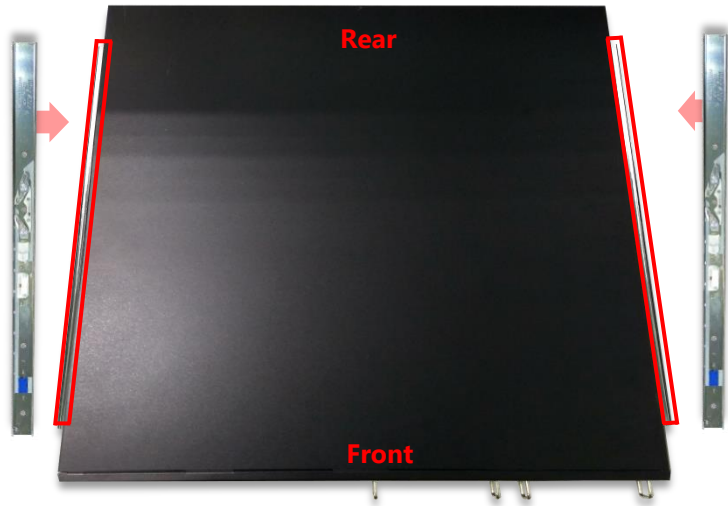

2. Slide the bracket out to its end.

Bracket

3. Locate and push the Release Tab on the bracket to detach the bracket from the Inner Channel, and carefully slide it out.

Release Tab

4. Align the bracket on the side of the system and make sure the screw-holes are matched. Then secure the bracket onto the system with three (3) screws.
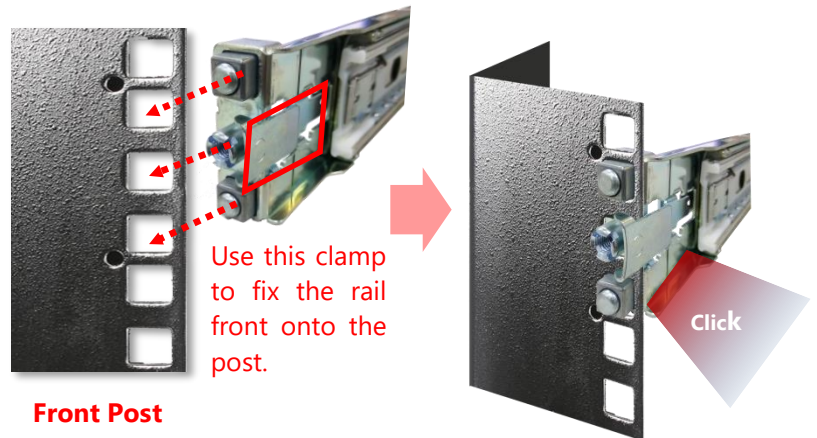

Front   Rear

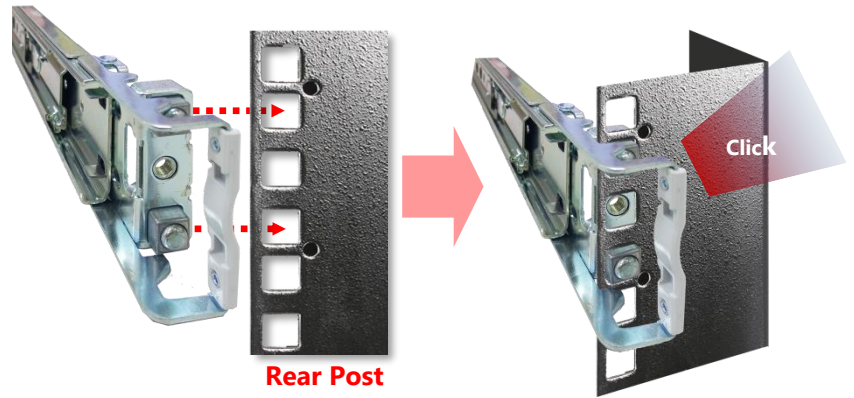**5.** Repeat Steps 1~5 to attach the bracket to the other side of the chassis.

Installing the Slide Rails on the Rack Posts

1. The slide rails do NOT require screws. Simply latch on the three (3) available screw holes on the rack post front and lock it by clipping the rail's Outer Channel front end to the post as shown in the image. You should hear a "click" sound once it is firmly attached.
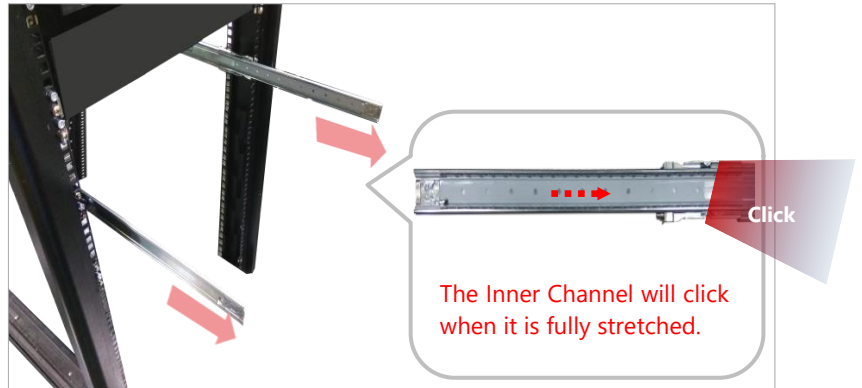

Use this clamp to fix the rail front onto the post.

Front Post

Click

1. For the rear rack installation, latch and engage the bolts on the rail's Outer Channel end with the two (2) available holes on the rack post, and the slide rail assembly will click into place.

Rear Post

Click

2. Repeat Step 1~2 to install the other rail onto the rack post.

Installing the System onto the Rack

1. Stretch both of the Inner Channel of the rail out to their fullest extent. You will hear a click sound when they are fully stretched and locked.

Click

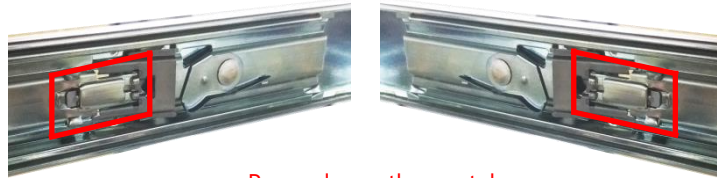The Inner Channel will click when it is fully stretched.

2. Hold the system with its front facing you, then lift up the system and gently engage the Brackets on the system while aligning them with the Inner Channel as shown in the image.
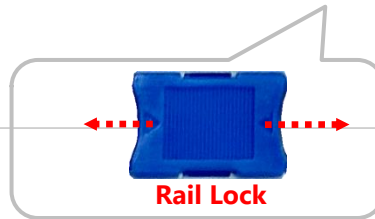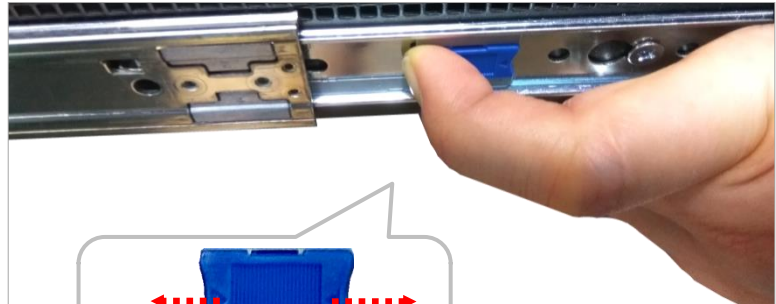

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3. Keep sliding the rails in until they stop about halfway. Press down on the metal clips on both Inner Channels and push them further into the rack cabinet.

Press down the metal clips while pushing in.

3. While pushing in the system, also push and hold the Rail Lock tab on Brackets on both sides.

Rail Lock

4. Push the system all the way in until the rack. The installation is complete.

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