



AT-RPS3104 *AT-PWR3101*

*Redundant Power Supply System
and Power Supply Module
for the AT-8524POE Layer 2+
Fast Ethernet Switch*

Installation Guide

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Electrical Safety and Emission Compliance Statement

Standards: This product meets the following standards.

U.S. Federal Communications Commission

Radiated Energy

Note: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.


Note: Modifications or changes not expressly approved of by the manufacturer or the FCC, can void your right to operate this equipment.

Industry Canada


This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.


RFI Emission

FCC Class A, EN55022 Class A, VCCI Class A, C-TICK, EN61000-3-2, EN61000-3-3  1





Warning: In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.  2


Immunity


EN55024  3


Electrical Safety


UL 60950 (CUL_{US}), EN60950 (TUV)  4


Important: Appendix B contains translated safety statements for installing this equipment. When you see the , go to Appendix B for the translated safety statement in your language.


Wichtig: Anhang B enthält übersetzte Sicherheitshinweise für die Installation dieses Geräts. Wenn Sie  sehen, schlagen Sie in Anhang B den übersetzten Sicherheitshinweis in Ihrer Sprache nach.


Vigtigt: Tillæg B indeholder oversatte sikkerhedsadvarsler, der vedrører installation af dette udstyr. Når De ser symbolet , skal De slå op i tillæg B og finde de oversatte sikkerhedsadvarsler i Deres eget sprog.


Belangrijk: Appendix B bevat vertaalde veiligheidsopmerkingen voor het installeren van deze apparatuur. Wanneer u de  ziet, raadpleeg Appendix B voor vertaalde veiligheidsinstructies in uw taal.


Important: L'annexe B contient les instructions de sécurité relatives à l'installation de cet équipement. Lorsque vous voyez le symbole , reportez-vous à l'annexe B pour consulter la traduction de ces instructions dans votre langue.


Tärkeää: Liite B sisältää tämän laitteen asentamiseen liittyvät käännetyt turvaohjeet. Kun näet -symbolin, katso käännettyä turvaohjetta liitteestä B.

Importante: l'Appendice B contiene avvisi di sicurezza tradotti per l'installazione di questa apparecchiatura. Il simbolo , indica di consultare l'Appendice B per l'avviso di sicurezza nella propria lingua.

Viktig: Tillegg B inneholder oversatt sikkerhetsinformasjon for installering av dette utstyret. Når du ser , åpner du til Tillegg B for å finne den oversatte sikkerhetsinformasjonen på ønsket språk.

Importante: O Anexo B contém advertências de segurança traduzidas para instalar este equipamento. Quando vir o símbolo , leia a advertência de segurança traduzida no seu idioma no Anexo B.

Importante: El Apéndice B contiene mensajes de seguridad traducidos para la instalación de este equipo. Cuando vea el símbolo , vaya al Apéndice B para ver el mensaje de seguridad traducido a su idioma.

Obs! Bilaga B innehåller översatta säkerhetsmeddelanden avseende installationen av denna utrustning. När du ser , skall du gå till Bilaga B för att läsa det översatta säkerhetsmeddelandet på ditt språk.

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Appendix B

Translated Electrical Safety and Emission Information 43

Preface

This guide contains installation instructions for the AT-RPS3104 redundant power supply (RPS) system and the AT-PWR3101 power supply module.

Note

The AT-RPS3104 RPS system and the AT-PWR3101 power supply module are designed exclusively for the AT-8524POE Layer 2+ Fast Ethernet Switch with Power over Ethernet. Do not use these products with any other switch.

Where to Find Web-based Guides

The Allied Telesyn web site at **www.alliedtelesyn.com** offers you an easy way to access the most recent documentation, software, and technical information for all of our products. For product guides, select “Support & Services” from our web site.

For details on the features and functions of your Allied Telesyn AT-8524POE switch and the AT-S62 management software, refer to the following documents on our web site, www.alliedtelesyn.com:

- ❑ *AT-8500 Series Layer 2+ Fast Ethernet Switches Installation Guide* (part number 613-50484-00)
- ❑ *AT-S62 Management Software User’s Guide* (part number 613-50485-00)
- ❑ *AT-S62 Management Software Command Line Interface User’s Guide* (part number 613-50486-00)

Document Conventions

This guide uses the following conventions:

Note

Notes provides additional information.



Caution

Cautions indicate that performing or omitting a specific action may result in equipment damage or loss of data.



Warning

Warnings indicates that performing or omitting a specific action may result in bodily injury.

Contacting Allied Telesyn

This section provides Allied Telesyn contact information for technical support as well as sales or corporate information.

Online Support

You can request technical support online by accessing the Allied Telesyn Knowledge Base at **www.alliedtelesyn.com/kb**. You can use the Knowledge Base to submit questions to our technical support staff and review answers to previously asked questions.

Email and Telephone Support

For Technical Support via email or telephone, refer to the Service & Support section of the Allied Telesyn web site:

<http://www.alliedtelesyn.com>.

Returning Products

Products for return or repair must first be assigned a Return Materials Authorization (RMA) number. A product sent to Allied Telesyn without a RMA number will be returned to the sender at the sender's expense.

To obtain a RMA number, contact Allied Telesyn's Technical Support at our web site: **<http://www.alliedtelesyn.com>**.

For Sales or Corporate Information

You can contact Allied Telesyn for sales or corporate information at our web site: **<http://www.alliedtelesyn.com>**.

Installation Instructions

The AT-RPS3104 system is a redundant power supply (RPS) for the AT-8524POE Layer 2+ Fast Ethernet switch with Power over Ethernet. The AT-RPS3104 system can power the switch in the event the switch's primary (internal) power supply fails. This product, along with the AT-PWR3101 power supply module, can protect the switch and the powered devices connected to it from network disruption should the internal power supply in the switch fail or experience a power loss.

Note

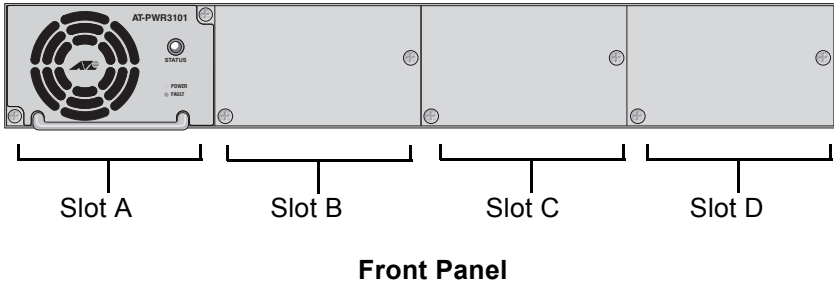
The AT-RPS3104 redundant power supply system and the AT-PWR3101 power supply module are designed exclusively for the AT-8524POE Layer 2+ Fast Ethernet Switch with Power over Ethernet. Do not use these products with any other switch.

The following sections include:

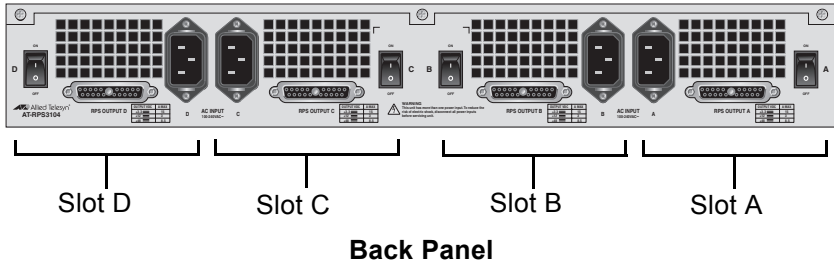
- ❑ "Introduction" on page 12
- ❑ "AT-PWR3101 Module's Operating Modes" on page 13
- ❑ "PoE Power Budgeting for Powered Devices" on page 13
- ❑ "AT-PWR3101 Module LED" on page 14
- ❑ "Reviewing Safety Precautions" on page 15
- ❑ "Verifying Package Contents" on page 17
- ❑ "Mounting the AT-RPS3104 in a Rack" on page 18
- ❑ "Installing the Power Cord Retaining Clips" on page 20
- ❑ "Cabling the AT-RPS3104 System" on page 22
- ❑ "Installing an AT-PWR3101 Module" on page 27
- ❑ "Replacing the AT-PWR3101 Module" on page 33

Introduction

The AT-RPS3104 system comes with one pre-installed AT-PWR3101 power supply module and features three empty slots for three additional AT-PWR3101 power supply modules. Each AT-PWR3101 module can power one AT-8524POE switch and its powered devices. When fully populated with AT-PWR3101 modules, the AT-RPS3104 system can supply redundant power to up to four AT-8524POE switches.



Front Panel



Back Panel

Figure 1. AT-RPS3104 Front and Back Panels

AT-PWR3101 Module's Operating Modes

The AT-PWR3101 module is not a load-sharing RPS unit. During normal operations of the AT-8524POE switch, the AT-PWR3101 module remains in stand-by mode. If the primary (internal) power supply in the switch fails or stops receiving AC power from its external power source, the RPS unit changes to operational mode, supplying power to the switch and all powered devices connected to the ports on the switch. It remains in the operational mode until the primary power supply in the switch resumes operation, at which time the AT-PWR3101 module automatically changes back to stand-by mode.

PoE Power Budgeting for Powered Devices

The Power over Ethernet (PoE) specifications of the AT-PWR3101 power supply module are identical to those of the primary (internal) power supply in the AT-8524POE switch. The AT-PWR3101 module can supply up to 15.4W per port for the PoE powered devices, with a maximum total of 400 watts (W), same as the switch's internal power supply. Since the 400W of available power from the RPS module is greater than the highest possible PoE requirements of the switch and its power devices, no power budgeting is required. The AT-PWR3101 module can support all powered devices connected to a switch, even when all 24 base ports are connected to powered devices and all devices require the maximum 15.4W. (PoE is not supported on expansion modules.) For further information on PoE, refer to the *AT-S62 Management Software User's Guide*.

AT-PWR3101 Module LED

The AT-PWR3101 module has one LED labelled STATUS. The meanings of the LED states are described below:

Table 1. AT-PWR3101 STATUS LED

State	Description
Green	The AT-PWR3101 module is receiving AC power and is operating normally.
Amber	The AT-PWR3101 module is experiencing a problem or has failed.

The LED on the AT-PWR3101 module does not reflect the operational state of the module (e.g., stand-by or operational mode).

There are several ways you can determine whether the power supply in a switch has failed and whether an AT-PWR3101 module is supplying power to the switch:

- ❑ You can examine the FAULT LED on the switch's front panel. If the LED is amber, the switch has experienced a problem. An amber FAULT LED could indicate a problem with the switch's internal power supply, though it could also indicate some other problem, such as a fan failure.
- ❑ If you configured the switch's SNMP software by entering the IP addresses of one or more management workstations on your network, the switch sends a SNMP trap to the workstations to alert you when its internal power supply fails.
- ❑ The best way to determine the status of the switch's internal power supply and an attached AT-RPS3104 unit is by viewing the System Hardware Status menu in the switch's AT-S62 management software. If an RPS unit is connected to the switch, the Redundant Power Supply item in the menu says "On." If the RPS is supplying power to the switch, the Redundant Power Supply item changes to "AC - On."

Reviewing Safety Precautions

Please review the following safety precautions before you begin to install the AT-RPS3104 system or an AT-PWR3101 module. Refer to Appendix B, “Translated Electrical Safety and Emission Information” on page 43 for translated safety statements in your language.

**Warning**

Electric Shock Hazard: To prevent electric shock, do not remove the cover. There are no user-serviceable parts inside. The unit contains hazardous voltages and should only be opened by a trained and qualified technician. *6* 5

**Warning**

Lightning Danger: Do not work on this equipment or cables during periods of lightning activity. *6* 6

**Warning**

Electrical-Type Class 1 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. *6* 7

**Caution**

Pluggable Equipment: The socket outlet should be installed near the equipment and should be easily accessible. *6* 8

**Caution**

Air vents: The air vents must not be blocked on the unit and must have free access to the room ambient air for cooling. *6* 9

**Caution**

Operating Temperature: This product is designed for a maximum ambient temperature of 40°C. *6* 10



Caution

All Countries: Install this product in accordance with local and National Electric Codes. *EN* 11



Caution

Circuit Overloading: Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.



Caution

Caution. Mechanical Loading: Mounting of the equipment in the rack should be such that a hazardous condition is not created due to uneven mechanical loading.



Caution

Elevated Operating Ambient Temperature: If installed in a closed or multi-unit rack assembly, the ambient temperature of the rack environment may be greater than the room ambient temperature. Therefore, consideration should be given to installing the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature (T_{mra}).



Caution

Reduced Air Flow: Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

Verifying Package Contents

Verify that the following components are included in the AT-RPS3104 shipping container. If any item is missing or damaged, contact your Allied Telesyn representative for assistance.

- AT-RPS3104 system with one pre-installed AT-PWR3101 module
- Two rack-mount brackets
- 12 rack-mount bracket screws
- Four AC power cords
- Four power cord retaining clips
- One 17-pin D-combo connector RPS cable
- This installation guide
- Warranty card

If you purchased an additional AT-PWR3101 module, verify that the following components are included in the AT-PWR3101 shipping container:

- One AT-PWR3101 module
- One 17-pin D-combo connector RPS cable
- This installation guide
- Warranty card

Mounting the AT-RPS3104 in a Rack

The AT-RPS3104 system can be installed on a table or in a standard 19-inch rack. This section contains the instructions for mounting the system in a rack.

Note

The AT-RPS3104 system must be installed close to the AT-8524POE switches. Allied Telesyn recommends installing the redundant power supply directly above or below the switches or in a directly adjacent rack.

To install the AT-RPS3104 redundant power supply system in a rack, perform the following procedure:

1. When installing the unit in a rack, you can remove the rubber feet from the bottom of the unit. To remove the feet, do the following. Otherwise, go to Step 2.
 - a. Place the unit upside down on a level, secure surface.
 - b. Use a flat-head screwdriver to remove the snap-on feet from the bottom of the power supply (see Figure 2).

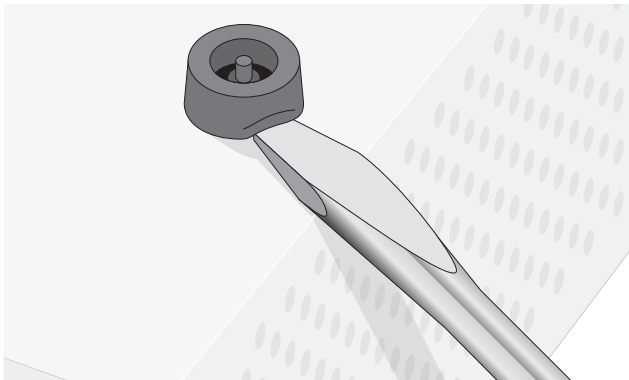


Figure 2. Removing the Rubber Feet

- c. Turn the power supply over.

2. Attach a rack-mount bracket to one side of the front of the system using a # 1 Phillips screwdriver and six rack-mount screws provided in the package (see Figure 3).

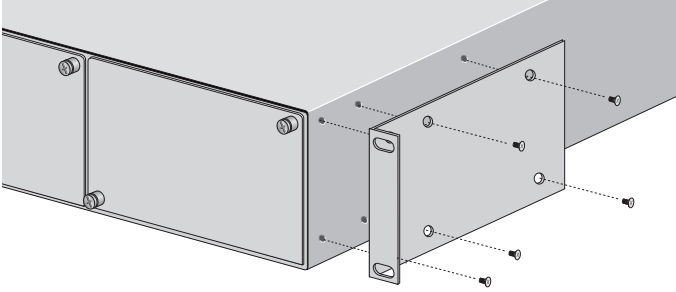


Figure 3. Installing the Rack-mount Brackets

3. Install the second rack-mount bracket on the other side of the AT-RPS3104 system using the remaining rack-mount screws.
4. Mount the AT-RPS3104 system in a 19-inch rack using standard screws (not provided).

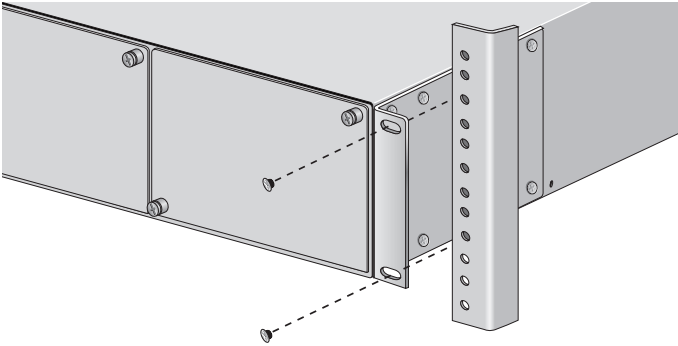


Figure 4. Installing the AT-RPS3104 System in a Rack

Installing the Power Cord Retaining Clips

Included with the switch are four power cord retaining clips. The clips secure the AC power cords to the AT-RPS3104 system and prevent the power cords from being inadvertently disconnected from the back of the system.

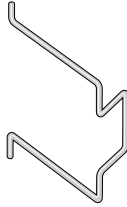


Figure 5. Retaining Clip

Allied Telesyn recommends installing all four clips during the initial installation. To install the clips, do the following:

1. Press the sides of the clip toward the center and insert the short ends into the holes in one of the retaining brackets (see Figure 6).

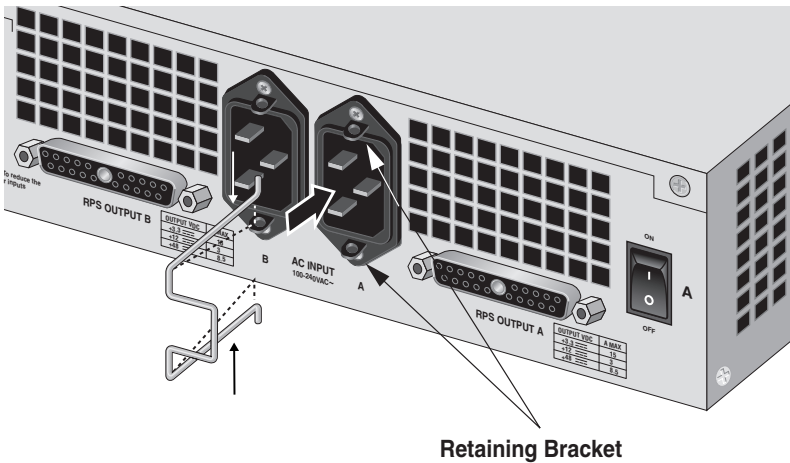


Figure 6. Installing a Power Cord Retaining Clip

2. Repeat step 1 to install the remaining retaining clips in the other retaining brackets.

To facilitate the installation and removal of AC power cables, the clips of adjoining AC connectors should be installed so the “u” openings face each other (see Figure 7).

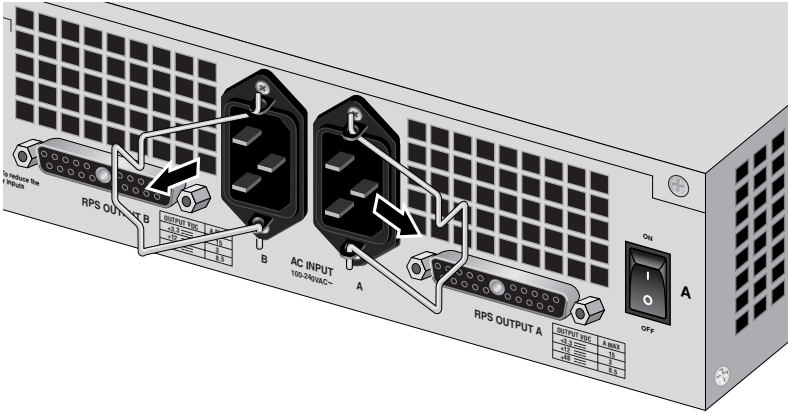


Figure 7. Installing Adjoining Power Cord Retaining Clips

Cabling the AT-RPS3104 System

To cable the AT-RPS3104 system, do the following:

1. Verify that the On/Off switch for the pre-installed AT-PWR3101 module in Slot A is in the Off position (see Figure 8).

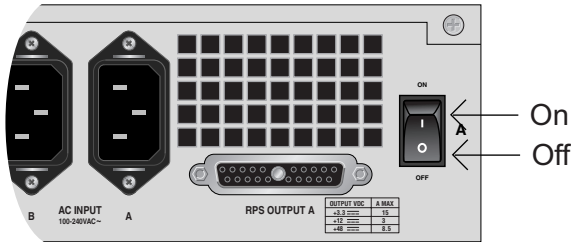


Figure 8. On/Off Power Switch

2. Connect an AC power cord to the AC connector for the pre-installed AT-PWR3101 module in Slot A (see Figure 9).

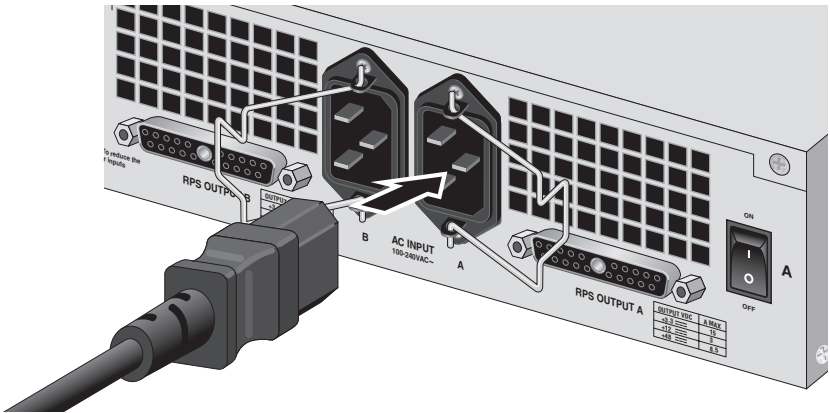


Figure 9. Connecting a Power Cord to the AT-RPS3104 System

- Slide over the retaining clip to secure the power cord (see Figure 10).

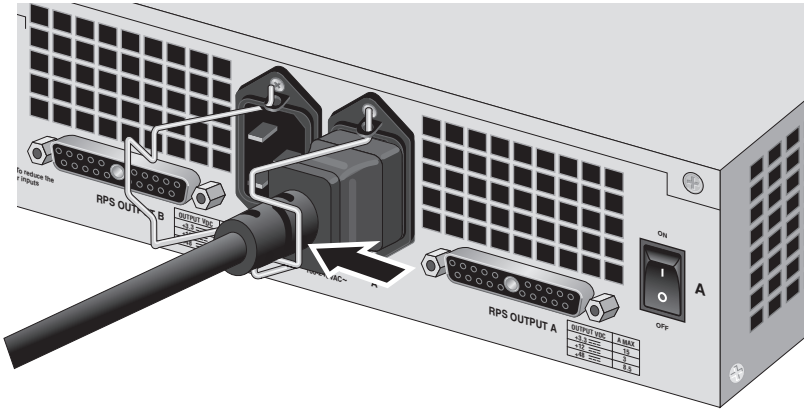


Figure 10. Securing the Power Cord with the Retaining Clip

- Connect the other end of the AC power cord to an AC power source.

Note

To increase the protection to your network, Allied Telesyn recommends connecting the RPS to an AC power source that operates on a different AC circuit than the switch.

5. Plug one end of a 17-pin D-combo connector RPS cable into the connector labeled “RPS INPUT” on the rear panel of the AT-8524POE switch (see Figure 11).

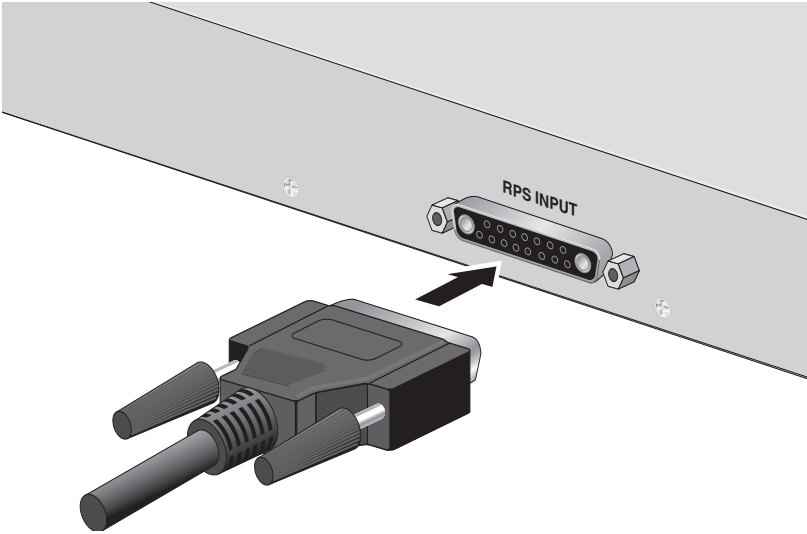


Figure 11. Connecting the RPS Cable to the Switch

6. Tighten the thumb screws on the connector to secure the cable to the switch (see Figure 12).

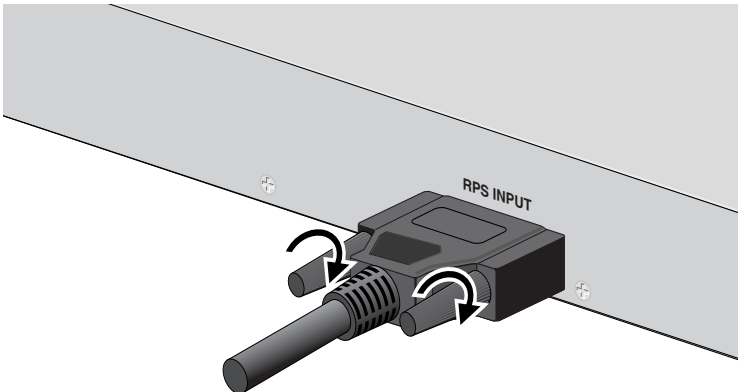


Figure 12. Securing the RPS Cable to the Switch

7. Plug the other end of the RPS cable into the connector labeled “RPS OUTPUT A” on the back of the AT-RPS3104 system (see Figure 13).

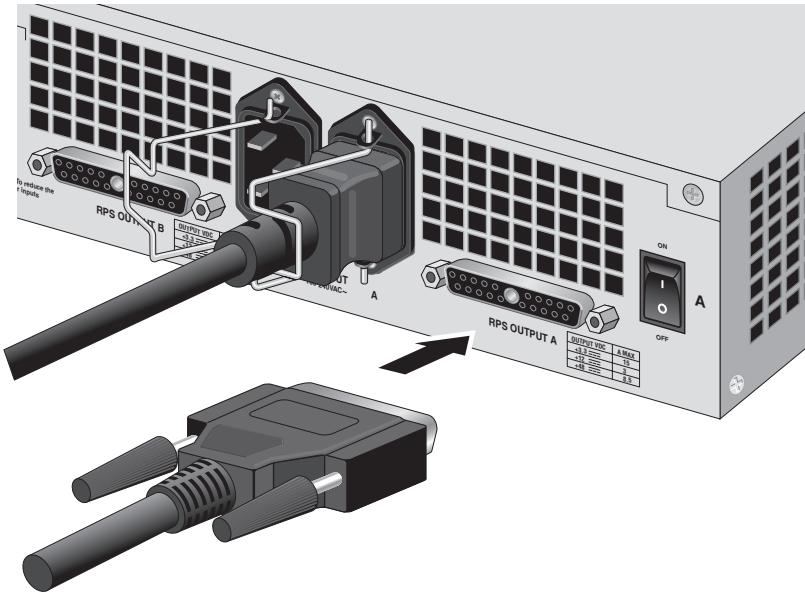


Figure 13. Connecting the RPS Cable to the AT-RPS3104 Unit

8. Tighten the thumb screws on the connector (see Figure 14).

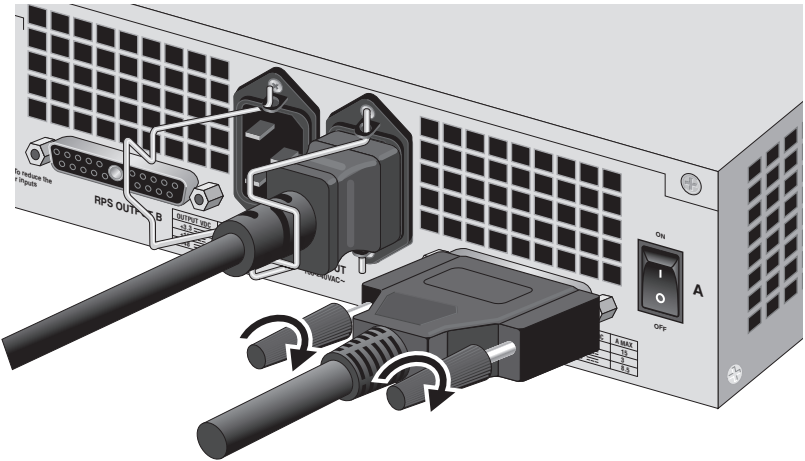


Figure 14. Securing the RPS Cable to the AT-RPS3104 Unit

9. Turn the On/Off switch for Slot A on the back panel of the AT-RPS3104 system to the On position (see Figure 8 on page 22).
10. Check the STATUS LED on the front panel of the AT-PWR3101 module. It should be green. If the LED is off, repeat this procedure to ensure that all cables are securely connected to the unit. If the LED is amber, the module has experienced a problem. Contact your local Allied Telesyn sales representative or Allied Telesyn technical support for assistance.
11. Check the RPS LED on the front of the AT-8524POE switch. It should be green. If it is off, repeat this procedure to ensure that all cables are securely connected to the switch and the RPS unit.

Note

The RPS LED on the switch is green whenever the unit detects that an RPS unit is connected to it, even when the RPS unit is powered off.

The installation is complete.

Installing an AT-PWR3101 Module

Before installing an additional AT-PWR3101 module in an AT-RPS3104 system, do the following:

- ❑ Choose a slot for the new module in the AT-RPS3104 system. The module can be installed in any slot.
- ❑ Check to see if the power cord retaining clip has been installed on the slot's corresponding AC connector on the back panel of the AT-RPS3104 system. If it has not been installed, refer to "Installing the Power Cord Retaining Clips" on page 20. (The retaining clips ship with the AT-RPS3104 system.)
- ❑ Check to be sure that the slot's corresponding On/Off switch on the back panel of the AT-RPS3104 system is in the Off position. Each module slot in the AT-RPS3104 system has a separate power switch.

To install the AT-PWR3101 module, perform the following procedure:

1. Remove the AT-PWR3101 module from its shipping container. Retain the shipping material. You must use the original shipping material if you need to return the product to Allied Telesyn.
2. Refer to "Verifying Package Contents" on page 17 to verify that the package contains the appropriate items.
3. Using a # 1 Phillips screwdriver, remove the blank panel from the slot chosen for the new AT-PWR3101 module (see Figure 15).

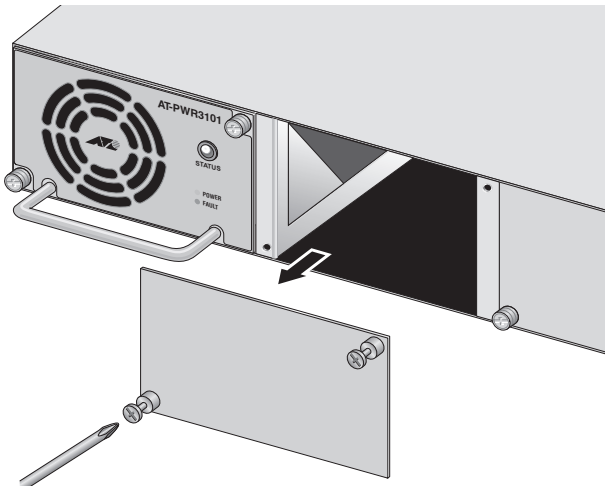


Figure 15. Removing a Blank Panel from an Expansion Slot

- Slide the new AT-PWR3101 module into the expansion slot (see Figure 16).

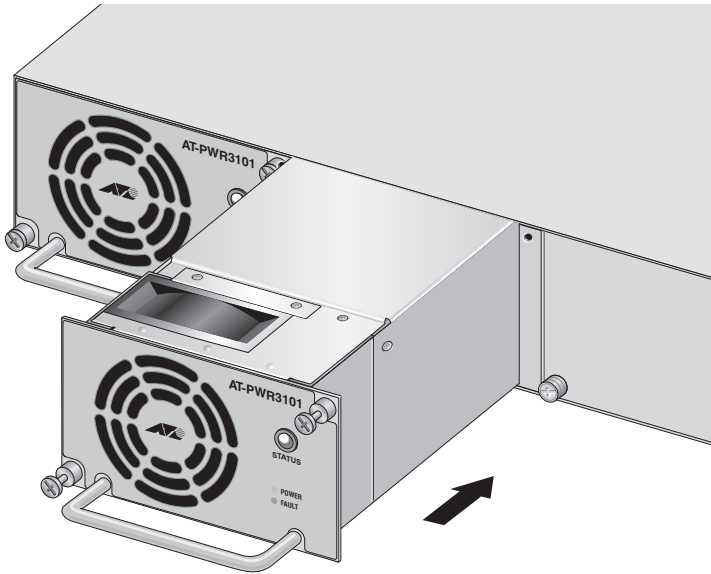


Figure 16. Installing the AT-PWR3101 Module

- Press firmly to ensure that the module is fully seated in the AT-RPS3104 system. When installed correctly, the front faceplate of the AT-PWR3101 module will be flush with the front of the AT-RPS3104 system.

6. Using a # 1 Phillips screwdriver, tighten the two captive screws to secure the module in the AT-RPS3104 system (see Figure 17).

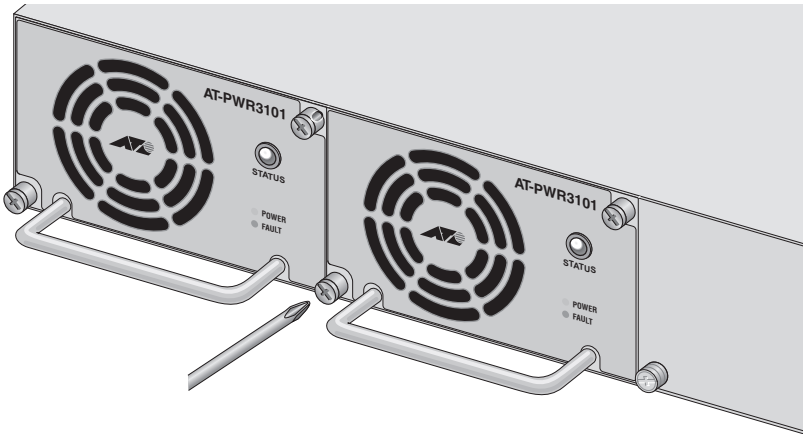


Figure 17. Tightening the Captive Screws on the AT-PWR3101 Module

7. Connect an AC power cord to the appropriate AC connector on the back panel of the AT-RPS3104 system (see Figure 18). (The AC power cords ship with the AT-RPS3104 system, not with the AT-PWR3101 modules.)

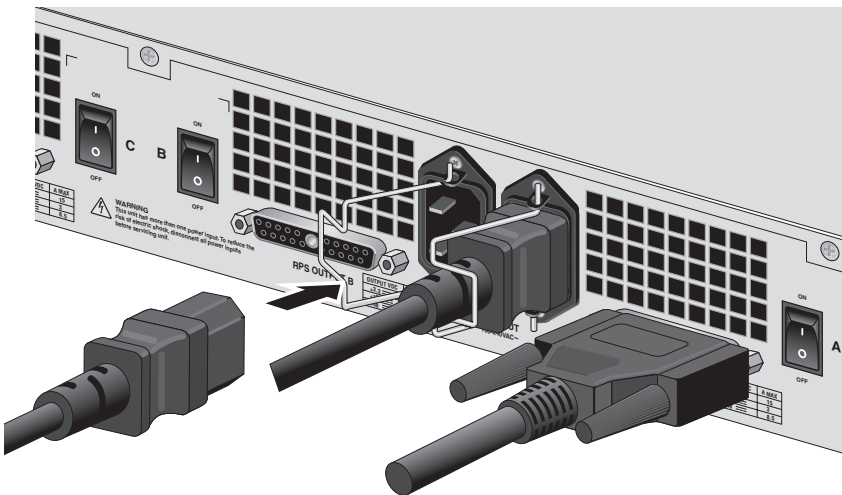


Figure 18. Connecting the AC Power Cord to the AT-RPS3104 System

- Slide over the retaining clip to secure the power cord (see Figure 19).

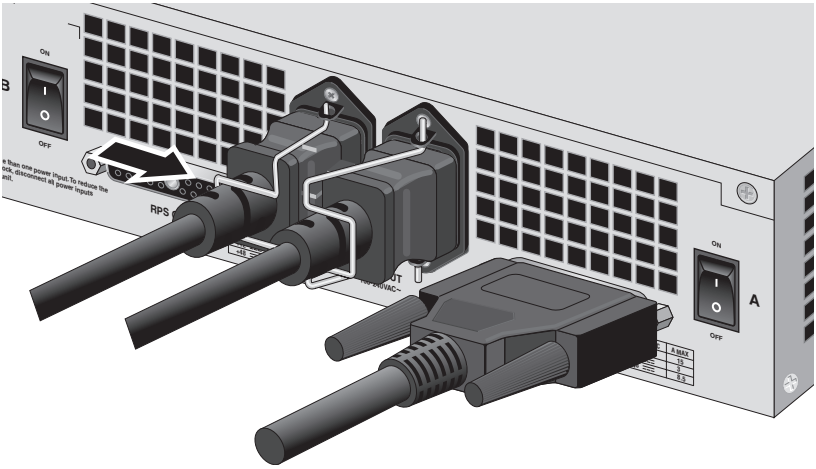


Figure 19. Securing the Power Cord with the Retaining Clip

- Plug one end of a 17-pin D-combo connector RPS cable into the connector labeled “RPS INPUT” on the rear panel of an AT-8524POE switch (see Figure 20).

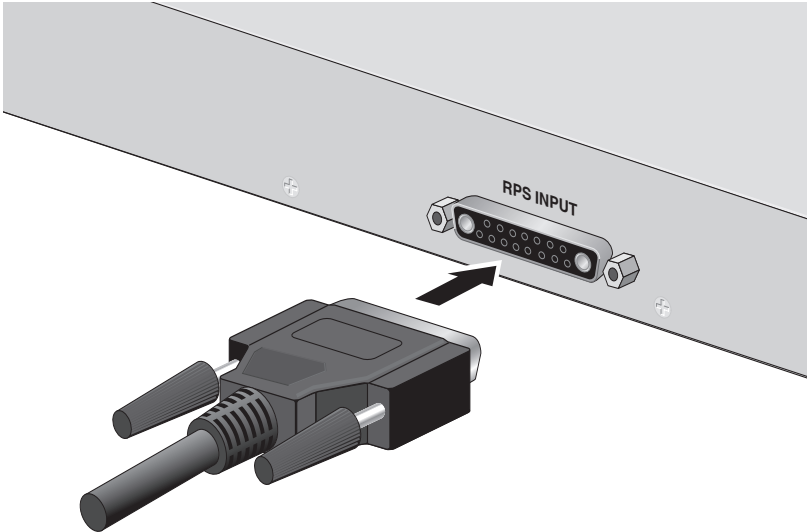


Figure 20. Connecting the RPS Cable to the Switch

10. Tighten the thumb screws on the connector to secure the cable to the switch (see Figure 21).

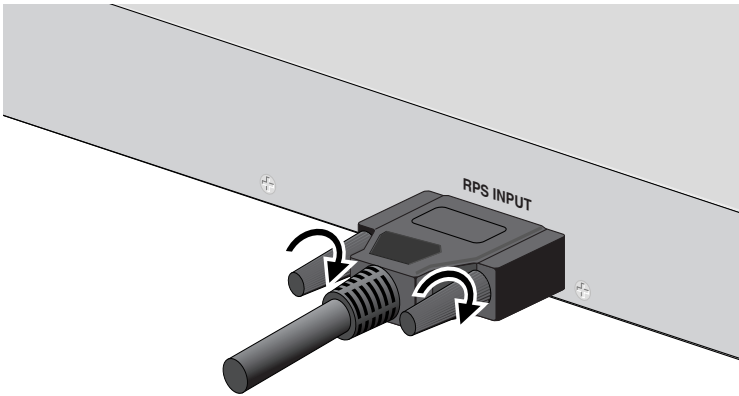


Figure 21. Securing the RPS Cable to the Switch

11. Plug the other end of the RPS cable into the appropriate RPS OUTPUT connector on the back panel of the AT-RPS3104 system (see Figure 22).

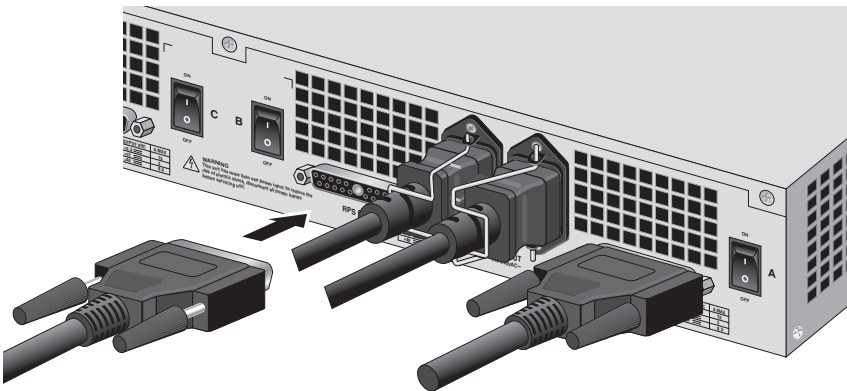


Figure 22. Connecting the RPS Cable to the AT-RPS3104 Unit

12. Tighten the thumb screws on the connector.
13. Turn the appropriate On/Off power switch on the back panel of the AT-RPS3104 system to the On position. Each module slot in the AT-RPS3104 system has a separate power switch.

14. Check the STATUS LED on the front panel of the AT-PWR3101 module. It should be green. If the LED is off, repeat this procedure to ensure that all cables are securely connected to the unit. If the LED is amber, the module has experienced a problem. Contact your local Allied Telesyn sales representative or Allied Telesyn technical support for assistance.

15. Check the RPS LED on the front of the AT-8524POE switch. It should be green. If it is off, repeat this procedure to ensure that all cables are securely connected to the switch and the RPS unit.

Note

The RPS LED on the switch is green whenever the unit detects that an RPS unit is connected to it, even when the RPS unit is powered off.

The installation is complete. Repeat this procedure to install additional AT-PWR3101 modules.

Replacing the AT-PWR3101 Module

To remove or replace a failed AT-PWR3101 module, perform the following procedure:

1. Turn the appropriate On/Off power switch on the back panel of the AT-RPS3104 system to the Off position. Each module slot in the AT-RPS3104 system has a separate power switch on the back panel.

Note

The AT-PWR3101 module is not hot-swappable. The On/Off power switch must be set to the Off position.

Note

When replacing an AT-PWR3101 module, you do not need to disconnect the corresponding power system cable and RPS cable from the back panel of the AT-RPS3104 system.

2. Using a # 1 Phillips screwdriver, loosen the two captive screws that secure the failed AT-PWR3101 module in the AT-RPS3104 system (see Figure 23).

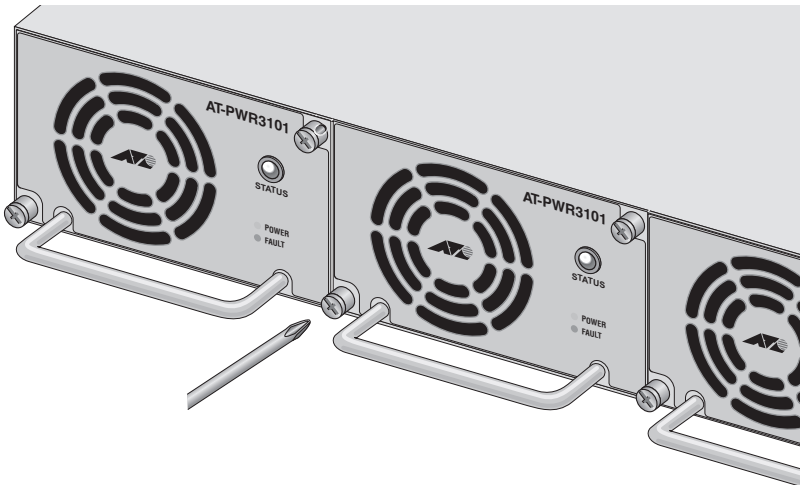


Figure 23. Loosening the Captive Screws on the AT-PWR3101 Module

- Using the handle on the faceplate of the AT-PWR3101 module, pull the module from the system (see Figure 24).

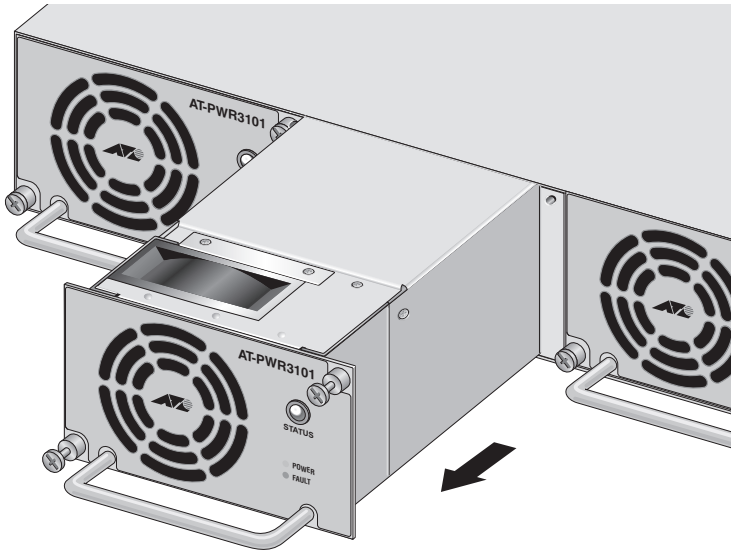


Figure 24. Removing an AT-PWR3101 Module

Note

If you are installing a new AT-PWR3101 module, go to Step 5

4. If you are not replacing the failed module with a new AT-PWR3101 module, reinstall the blank faceplate over the empty expansion slot (see Figure 25). A slot should not be left open. The blank faceplate keeps dust from entering the system and helps ensure proper cooling and airflow in the chassis.

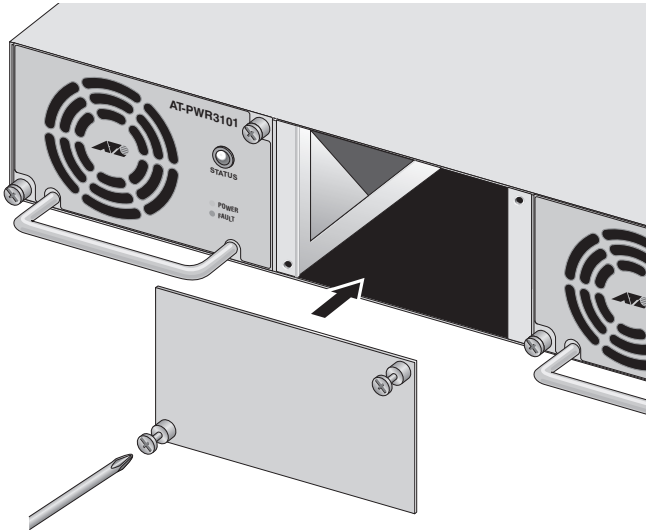


Figure 25. Reinstalling a Blank Faceplate

5. Remove the new AT-PWR3101 module from its shipping container. Retain the shipping material. You must use the original shipping material if you need to return the product to Allied Telesyn.
6. Refer to “Verifying Package Contents” on page 17 to verify that the package contains the appropriate items.

7. Slide the module into the expansion slot in the AT-RPS3104 system (see Figure 26).

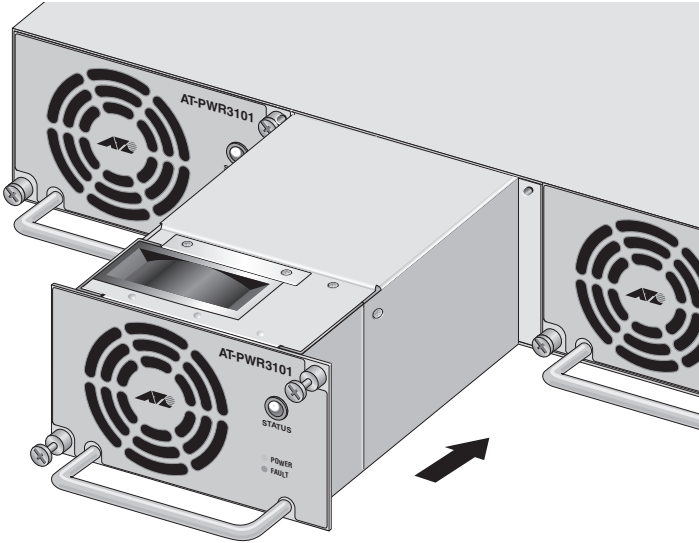


Figure 26. Installing the AT-PWR3101 Module

8. Press firmly to ensure that the module is fully seated in the AT-RPS3104 system. When installed correctly, the front faceplate of the AT-PWR3101 module will be flush with the front of the AT-RPS3104 system.

9. Using a # 1 Phillips screwdriver, tighten the two captive screws to secure the module in the AT-RPS3104 system (see Figure 27).

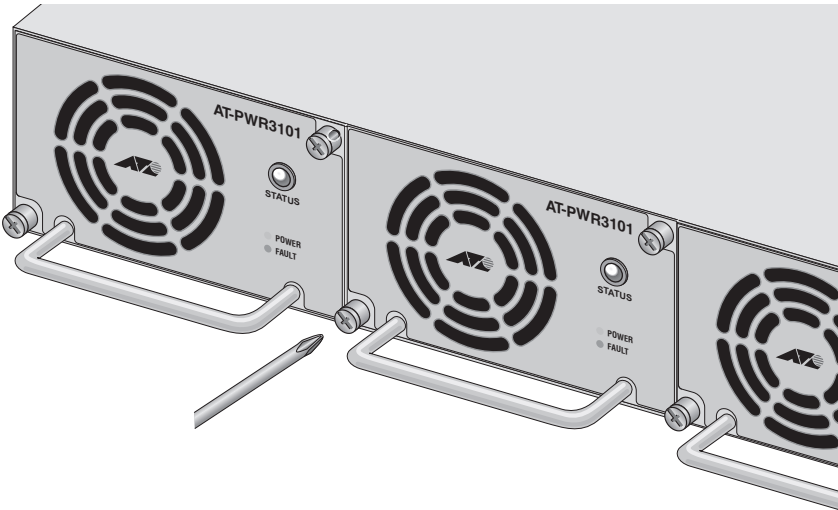


Figure 27. Securing the AT-PWR3101 Module in the AT-RPS3104 System

10. Turn the slot's corresponding On/Off power switch on the back panel of the AT-RPS3104 system to On.
11. Check the STATUS LED on the front panel of the AT-PWR3101 module. It should be green. If the LED is off, check that all cables are securely connected to the unit. If the LED is amber, the module has experienced a problem. Contact your local Allied Telesyn sales representative or Allied Telesyn technical support for assistance.
12. Check the RPS LED on the front of the AT-8524POE switch. It should be green. If it is off, repeat this procedure to ensure that all cables are securely connected to the switch and the RPS unit.

Note

The RPS LED on the switch is green whenever the unit detects that an RPS unit is connected to it, even when the RPS unit is powered off.

The installation is complete.

Appendix A

Technical Specifications

Physical

Dimensions:

AT-RPS3104	6.35 cm x 43.8 cm x 40.6 cm (2.50 in. x 17.25 in. x 16.0 in.) (H x W x D)
------------	---

Weight:

AT-RPS3104 with one pre-installed AT-PWR3101 module:	7.4 kg (16.2 lb.)
AT-PWR3101 module:	2.1 kg (4.7 lb.)

Recommended Minimum
Ventilation on All Sides:

10 cm (4.0 in)

Temperature

Operating Temperature:	0° C to 40° C (32° F to 104° F)
Storage Temperature:	-25° C to 70° C (-13° F to 158° F)
Operating Humidity:	5% to 90% non-condensing
Storage Humidity:	5% to 95% non-condensing
Maximum Operating Altitude:	4,000 m (13,000 ft)
Maximum Non-operating Altitude:	4,000 m (13,000 ft)

Electrical Rating

AT-RPS3104 System	100-240 VAC, 7.0A maximum, 50/60 Hz maximum per input
-------------------	---

Agency Certificates

EMI:	FCC Class A, EN55022 Class A, VCCI Class A, C-TICK, EN61000-3-2, EN61000-3-3
Immunity:	EN55024
Safety:	UL 60950 (C _{ULUS}), EN60950 (TUV)
Quality and Reliability:	MTBF > 90,000 hrs, MTTR < 1/2 hr

RPS Connector Port Pinouts

Figure 28 illustrates the pin layout to the RPS connectors on the AT-RPS3104 system.

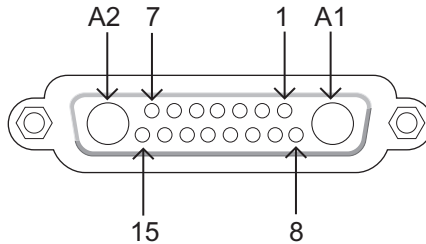


Figure 28. AT-RPS3104 RPS Connector Pin Layout

Table 2 lists the RPS connector pins and definitions.

Table 2. Pin Definitions for the RPS Connectors on the AT-RPS3104 System

Pin	Definition
A1	48V Return
A2	Return
1	48V
2	48V RS+
3	Redundant Power Supply (RPS) present
4	RPS_EN
5	12V RS+
6	12V
7	3.3V
8	48V
9	48V
10	48V RS-
11	RPS GOOD
12	3.3V RS-
13	3.3V RS+
14	3.3V
15	3.3V

Appendix B

Translated Electrical Safety and Emission Information

Important: This appendix contains multiple-language translations for the safety statements in this guide.

Wichtig: Dieser Anhang enthält Übersetzungen der in diesem Handbuch enthaltenen Sicherheitshinweise in mehreren Sprachen.

Vigtigt: Dette tillæg indeholder oversættelser i flere sprog af sikkerhedsadvarslerne i denne håndbog.

Belangrijk: Deze appendix bevat vertalingen in meerdere talen van de veiligheidsopmerkingen in deze gids.

Important: Cette annexe contient la traduction en plusieurs langues des instructions de sécurité figurant dans ce guide.

Tärkeää: Tämä liite sisältää tässä oppaassa esiintyvät turvaohjeet usealla kielellä.

Importante: questa appendice contiene traduzioni in più lingue degli avvisi di sicurezza di questa guida.

Viktig: Dette tillegget inneholder oversettelser til flere språk av sikkerhetsinformasjonen i denne veiledningen.

Importante: Este anexo contém traduções em vários idiomas das advertências de segurança neste guia.

Importante: Este apéndice contiene traducciones en múltiples idiomas de los mensajes de seguridad incluidos en esta guía.

Obs! Denna bilaga innehåller flerspråkiga översättningar av säkerhetsmeddelandena i denna handledning.

Standards: This product meets the following safety standards.

U.S. Federal Communications Commission

RADIATED ENERGY


Note: This equipment has been tested and found to comply with the limits for a Class A 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 commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Note: Modifications or changes not expressly approved by the manufacturer or the FCC can void your right to operate this equipment.


Canadian Department of Communications







This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.


- 1 RFI Emission FCC Class A, EN55022
Class A, VCCI
Class A, C-TICK,
EN61000-3-2,
EN61000-3-3
- 2  **WARNING:** In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
- 3 Immunity EN55024
- 4 Electrical Safety UL 60950 (cUL_{US}),
EN60950 (TUV)

SAFETY








- 5  **ELECTRICAL NOTICES**
WARNING: ELECTRIC SHOCK HAZARD
To prevent ELECTRIC shock, do not remove the cover. No user-serviceable parts inside. This unit contains HAZARDOUS VOLTAGES and should only be opened by a trained and qualified technician. To avoid the possibility of ELECTRIC SHOCK, disconnect electric power to the product before connecting or disconnecting the LAN cables.

- 6  **LIGHTNING DANGER**
DANGER: DO NOT WORK on equipment or CABLES during periods of LIGHTNING ACTIVITY.
- 7  **ELECTRICAL - TYPE CLASS 1 EQUIPMENT**
THIS EQUIPMENT MUST BE EARTHED. 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.
- 8  **PLUGGABLE EQUIPMENT**, the socket outlet shall be installed near the equipment and shall be easily accessible.
- 9  **CAUTION:** Air vents must not be blocked and must have free access to the room ambient air for cooling.
- 10  **OPERATING TEMPERATURE:** This product is designed for a maximum ambient temperature of 40° degrees C.
- 11  **ALL COUNTRIES:** Install product in accordance with local and National Electrical Codes.


Normen: Dieses Produkt erfüllt die Anforderungen der nachfolgenden Normen.

- 1 Hochfrequenzstörung FCC Klasse A, EN55022 Klasse A, VCCI Class A, C-TICK, EN61000-3-2, EN61000-3-3
- 2  **WARNUNG:** Bei Verwendung zu Hause kann dieses Produkt Funkstörungen hervorrufen. In diesem Fall müßte der Anwender angemessene Gegenmaßnahmen ergreifen.
- 3 Störsicherheit EN55024
- 4 Elektrische Sicherheit UL 60950 (C_{ULUS}), EN60950 (TUV)








SICHERHEIT

- 5  **ACHTUNG: GEFÄHRLICHE SPANNUNG**
Das Gehäuse nicht öffnen. Das Gerät enthält keine vom Benutzer wartbaren Teile. Das Gerät steht unter Hochspannung und darf nur von qualifiziertem technischem Personal geöffnet werden. Vor Anschluß der LAN-Kabel, Gerät vom Netz trennen.
- 6  **GEFAHR DURCH BLITZSCHLAG**
GEFAHR: Keine Arbeiten am Gerät oder an den Kabeln während eines Gewitters ausführen.
- 7  **GERÄTE DER KLASSE 1**
DIESE GERÄTE MÜSSEN GEERDET SEIN. Der Netzstecker darf nur mit einer vorschriftsmäßig geerdeten Steckdose verbunden werden. Ein unvorschriftsmäßiger Anschluß kann die Metallteile des Gehäuses unter gefährliche elektrische Spannungen setzen.
- 8  **STECKBARES GERÄT:** Die Anschlußbuchse sollte in der Nähe der Einrichtung angebracht werden und leicht zugänglich sein."
- 9  **VORSICHT**
Die Entlüftungsöffnungen dürfen nicht versperrt sein und müssen zum Kühlen freien Zugang zur Raumluft haben.
- 10  **BETRIEBSTEMPERATUR:** Dieses Produkt wurde für den Betrieb in einer Umgebungstemperatur von nicht mehr als 40° C entworfen.
- 11  **ALLE LÄNDER:** Installation muß örtlichen und nationalen elektrischen Vorschriften entsprechen.


Standarder: Dette produkt tilfredsstillende de følgende standarder.

- | | | |
|---|--|--|
| 1 | Radiofrekvens forstyrrelsesemission | FCC Klasse A, EN55022
Klasse A, VCCI
Class A, C-TICK,
EN61000-3-2,
EN61000-3-3 |
| 2 |  ADVARSEL: I et hjemligt miljø kunne dette produkt forårsage radio forstyrrelse. Bliver det tilfældet, påkræves brugeren muligvis at tage tilstrækkelige foranstaltninger. | |
| 3 | Immunitet | EN55024 |
| 4 | Elektrisk sikkerhed | UL 60950 (CULUS),
EN60950 (TUV) |






SIKKERHED



- 5  **ELEKTRISKE FORHOLDSREGLER**
ADVARSEL: RISIKO FOR ELEKTRISK STØD
For at forebygge ELEKTRISK stød, undlad at åbne apparatet. Der er ingen indre dele, der kan reparerer af brugeren. Denne enhed indeholder LIVSFARLIGE STRØMSPÆNDINGER og bør kun åbnes af en uddannet og kvalificeret tekniker. For at undgå risiko for ELEKTRISK STØD, afbrydes den elektriske strøm til produktet, før LAN-kablerne monteres eller afmonteres.
- 6  **FARE UNDER UVEJR**
FARE: UNDLAD at arbejde på udstyr eller KABLER i perioder med LYNAKTIVITET.
- 7  **ELEKTRISK - KLASSE 1-UDSTYR**
DETTE UDSTYR KRÆVER JORDFORBINDELSE. Stikket skal være forbundet med en korrekt installeret jordforbunden stikkontakt. En ukorrekt installeret stikkontakt kan sætte livsfarlig spænding til tilgængelige metaldele.
- 8  **UDSTYR TIL STIKKONTAKT**, stikkontakten bør installeres nær ved udstyret og skal være lettilgængelig.
- 9  **ADVARSEL:** Ventilationsåbninger må ikke blokeres og skal have fri adgang til den omgivende luft i rummet for afkøling.
- 10  **BETJENINGSTEMPERATUR:** Dette apparat er konstrueret til en omgivende temperatur på maksimum 40 grader C.
- 11  **ALLE LANDE:** Installation af produktet skal ske i overensstemmelse med lokal og national lovgivning for elektriske installationer.

Eisen: Dit product voldoet aan de volgende eisen.


- 1 RFI Emissie FCC Klasse A, EN55022
Klasse A, VCCI
Class A, C-TICK,
EN61000-3-2,
EN61000-3-3
- 2  **WAARSCHUWING:** Binnenshuis kan dit product radiostoring veroorzaken, in welk geval de gebruiker verplicht kan worden om gepaste maatregelen te nemen.
- 3 Immuniteit EN55024
- 4 Elektrische Veiligheid UL 60950 (CUL_{US}),
EN60950 (TUV)

VEILIGHEID







- 5  **WAARSCHUWINGEN MET BETREKKING TOT ELEKTRICITEIT**
WAARSCHUWING: GEVAAR VOOR ELEKTRISCHE SCHOKKEN
Verwijder het deksel niet, teneinde ELEKTRISCHE schokken te voorkomen. Binnenin bevinden zich geen onderdelen die door de gebruiker onderhouden kunnen worden. Dit toestel staat onder GEVAARLIJKE SPANNING en mag alleen worden geopend door een daartoe opgeleide en bevoegde technicus. Om het gevaar op ELEKTRISCHE SCHOKKEN te vermijden, moet u het toestel van de stroombron ontkoppelen alvorens de LAN-kabels te koppelen of ontkoppelen.
- 6  **GEVAAR VOOR BLIKSEMINSLAG**
GEVAAR: NIET aan toestellen of KABELS WERKEN bij BLIKSEM.
- 7  **ELEKTRISCHE TOESTELLEN VAN KLASSE 1**
DIT TOESTEL MOET GEAARD WORDEN. De stekker moet aangesloten zijn op een juist geaarde contactdoos. Een onjuist geaarde contactdoos kan de metalen onderdelen waarmee de gebruiker eventueel in aanraking komt onder gevaarlijke spanning stellen.
- 8  **AAN TE SLUITEN APPARATUUR,** de contactdoos wordt in de nabijheid van de apparatuur geïnstalleerd en is gemakkelijk te bereiken."
- 9  **OPGELET:** De ventilatiegaten mogen niet worden gesperd en moeten de omgevingslucht ongehinderd toelaten voor afkoeling.

- 10  **BEDRIJFSTEMPERATUUR:** De omgevingstemperatuur voor dit produkt mag niet meer bedragen dan 40 graden Celsius.
- 11  **ALLE LANDEN:** het toestel installeren overeenkomstig de lokale en nationale elektrische voorschriften.

Normes: ce produit est conforme aux normes de suivantes:

- 1 Emission d'interférences radioélectriques FCC Classe A, EN55022 Classe A, VCCI Classe A, C-TICK, EN61000-3-2, EN61000-3-3
- 2  **MISE EN GARDE** : dans un environnement domestique, ce produit peut provoquer des interférences radioélectriques. Auquel cas, l'utilisateur devra prendre les mesures adéquates.
- 3 Immunité EN55024
- 4 Sécurité électrique UL 60950 (CULUS), EN60950 (TUV)

SÉCURITÉ


- 5  **INFORMATION SUR LES RISQUES ÉLECTRIQUES**
AVERTISSEMENT: DANGER D'ÉLECTROCUTION
Pour éviter toute ÉLECTROCUTION, ne pas ôter le revêtement protecteur du matériel. Ce matériel ne contient aucun élément réparable par l'utilisateur. Il comprend des TENSIONS DANGEREUSES et ne doit être ouvert que par un technicien dûment qualifié. Pour éviter tout risque d'ÉLECTROCUTION, débrancher le matériel avant de connecter ou de déconnecter les câbles LAN.
- 6  **DANGER DE Foudre**
DANGER: NE PAS MANIER le matériel ou les CÂBLES lors d'activité orageuse.
- 7  **ÉQUIPEMENT DE CLASSE 1 ÉLECTRIQUE**
CE MATÉRIEL DOIT ÊTRE MIS A LA TERRE. La prise de courant doit être branchée dans une prise femelle correctement mise à la terre car des tensions dangereuses risqueraient d'atteindre les pièces métalliques accessibles à l'utilisateur.
- 8  **EQUIPEMENT POUR BRANCHEMENT ELECTRIQUE,** la prise de sortie doit être placée près de l'équipement et facilement accessible".
- 9  **ATTENTION:** Ne pas bloquer les fentes d'aération, ceci empêcherait l'air ambiant de circuler librement pour le refroidissement.
- 10  **TEMPÉRATURE DE FONCTIONNEMENT:** Ce matériel est capable de tolérer une température ambiante maximum de ou 40 degrés Celsius.

11










POUR TOUS PAYS: Installer le matériel conformément aux normes électriques nationales et locales.


Standardit: Tämä tuote on seuraavien standardien mukainen.

- | | | |
|---|--|---|
| 1 | Radioaaltojen häirintä | FCC Luokka A, EN55022
Luokka A, VCCI Class A,
C-TICK, EN61000-3-2,
EN61000-3-3 |
| 2 |  VAROITUS: Kotiolosuhteissa tämä laite voi aiheuttaa radioaaltojen häiriötä, missä tapauksessa laitteen käyttäjän on mahdollisesti ryhdyttävä tarpeellisiin toimenpiteisiin. | |
| 3 | Kestävyys | EN55024 |
| 4 | Sähköturvallisuus | UL 60950 (CUL _{US}),
EN60950 (TUV) |







TURVALLISUUS



- 5  **SÄHKÖÖN LIITTYVIÄ HUOMAUTUKSIA**
VAROITUS: SÄHKÖISKUVAARA
Estääksesi SÄHKÖISKUN älä poista kantta. Sisällä ei ole käyttäjän huollettavissa olevia osia. Tämä laite sisältää VAARALLISIA JÄNNITTEITÄ ja sen voi avata vain koulutettu ja pätevä teknikko. Vältäaksesi SÄHKÖISKUN mahdollisuuden katkaise sähkövirta tuotteeseen ennen kuin liität tai irrotat paikallisverkon (LAN) kaapelit.
- 6  **SALAMANISKUVAARA**
HENGENVAARA: ÄLÄ TYÖSKENTELE laitteiden tai KAAPELEIDEN KANSSA SALAMOINNIN AIKANA.
- 7  **SÄHKÖ - TYYPPILUOKAN 1 LAITTEET**
TÄMÄ LAITE TÄYTY MAADOITTAA. Pistoke täytyy liittää kunnollisesti maadoitettuun pistorasiaan. Virheellisesti johdotettu pistorasia voi altistaa metalliosat vaarallisille jännitteille.
- 8  **PISTORASIAAN KYTKETTÄVÄ LAITE;** pistorasia on asennettava laitteen lähelle ja siihen on oltava esteetön pääsy."
- 9  **HUOMAUTUS:** Ilmavaihtoreikiä ei pidä tukkia ja niillä täytyy olla vapaa yhteys ympäröivään huoneilmaan, jotta ilmanvaihto tapahtuisi.
- 10  **KÄYTTÖLÄMPÖTILA:** Tämä tuote on suunniteltu ympäröivän ilman maksimilämpötilalle 40°C.
- 11  **KAIKKI MAAT:** Asenna tuote paikallisten ja kansallisten sähköturvallisuusmääräysten mukaisesti.

Standard: Questo prodotto è conforme ai seguenti standard.


- 1 Emissione RFI (interferenza di radiofrequenza: FCC Classe A, EN55022 Classe A, VCCI Class A, C-TICK, EN61000-3-2, EN61000-3-3)
- 2  **AVVERTENZA:** in ambiente domestico questo prodotto potrebbe causare radio interferenza. In questo caso potrebbe richiedersi all'utente di prendere gli adeguati provvedimenti.
- 3 Immunità EN55024
- 4 Sicurezza elettrica UL 60950 (CULUS), EN60950 (TUV)

NORME DI SICUREZZA








- 5  **AVVERTENZE ELETTRICHE**
ATTENZIONE: PERICOLO DI SCOSSE ELETTRICHE
Per evitare SCOSSE ELETTRICHE non asportare il coperchio. Le componenti interne non sono riparabili dall'utente. Questa unità ha TENSIONI PERICOLOSE e va aperta solamente da un tecnico specializzato e qualificato. Per evitare ogni possibilità di SCOSSE ELETTRICHE, interrompere l'alimentazione del dispositivo prima di collegare o staccare i cavi LAN.
- 6  **PERICOLO DI FULMINI**
PERICOLO: NON LAVORARE sul dispositivo o sui CAVI durante PRECIPITAZIONI TEMPORALESCHÉ.
- 7  **ELETTRICITÀ - DISPOSITIVI DI CLASSE 1**
QUESTO DISPOSITIVO DEVE AVERE LA MESSA A TERRA. La spina deve essere inserita in una presa di corrente specificamente dotata di messa a terra. Una presa non cablata in maniera corretta rischia di scaricare una tensione pericolosa su parti metalliche accessibili.
- 8  **APPARECCHIATURA COLLEGABILE**, la presa va installata vicino all'apparecchio per risultare facilmente accessibile".
- 9  **ATTENZIONE:** le prese d'aria non vanno ostruite e devono consentire il libero ricircolo dell'aria ambiente per il raffreddamento.
- 10  **TEMPERATURA DI FUNZIONAMENTO:** Questo prodotto è concepito per una temperatura ambientale massima di 40 gradi centigradi.

 **11**  **TUTTI I PAESI:** installare il prodotto in conformità delle vigenti normative elettriche nazionali.


Sikkerhetsnormer: Dette produktet tilfredsstiller følgende sikkerhetsnormer.

- | | | |
|---|---|--|
| 1 | RFI stråling | FCC Klasse A, EN55022
Klasse A, VCCI
Class A, C-TICK,
EN61000-3-2,
EN61000-3-3 |
| 2 |  ADVARSEL: Hvis dette produktet benyttes til privat bruk, kan produktet forårsake radioforstyrrelse. Hvis dette skjer, må brukeren ta de nødvendige forholdsregler. | |
| 3 | Immunitet | EN55024 |
| 4 | Elektrisk sikkerhet | UL 60950 (CUL _{US}),
EN60950 (TUV) |







SIKKERHET



- 5  **ELEKTRISITET**
ADVARSEL: FARE FOR ELEKTRISK SJOKK
For å unngå ELEKTRISK sjokk, må dekslet ikke tas av. Det finnes ingen deler som brukeren kan reparere på innsiden. Denne enheten inneholder FARLIGE SPENNINGER, og må kun åpnes av en faglig kvalifisert tekniker. For å unngå ELEKTRISK SJOKK må den elektriske strømmen til produktet være avslått før LAN-kablene til- eller frakobles.
- 6  **FARE FOR LYNNEDSLAG**
FARE: ARBEID IKKE på utstyr eller KABLER i TORDENVÆR.
- 7  **ELEKTRISK - TYPE 1- KLASSE UTSTYR**
DETTE UTSTYRET MÅ JORDES. Strømkontakten må være tilkopleet en korrekt jordet kontakt. En kontakt som ikke er korrekt jordet kan føre til farlig spenning i lett t ilgjengelige metalldeleer.
- 8  **UTSTYR FOR STIKKONTAKT.** Stikkontakten skal monteres i nærheten av utstyret og skal være lett tilgjengelig."
- 9  **FORSIKTIG:** Lufteventilene må ikke blokkeres, og må ha fri tilgang til luft med romtemperatur for avkjøling.
- 10  **DRIFTSTEMPERATUR:** Dette produktet er konstruert for bruk i maksimum romtemperatur på 40 grader celsius.
- 11  **ALLE LAND:** Produktet må installeres i samsvar med de lokale og nasjonale elektriske koder.

Padrões: Este produto atende aos seguintes padrões.


- 1 Emissão de interferência de radiofrequência: FCC Classe A, EN55022
Classe A,
VCCI Class A, C-TICK,
EN61000-3-2,
EN61000-3-3
- 2  **AVISO:** Num ambiente doméstico este produto pode causar interferência na radiorrecepção e, neste caso, pode ser necessário que o utente tome as medidas adequadas.
- 3 Imunidade EN55024
- 4 Segurança Eléctrica UL 60950 (CULUS),
EN60950 (TUV)

SEGURANÇA







- 5  **AVISOS SOBRE CARACTERÍSTICAS ELÉTRICAS**
ATENÇÃO: PERIGO DE CHOQUE ELÉTRICO
Para evitar CHOQUE ELÉTRICO, não retire a tampa. Não contém peças que possam ser consertadas pelo usuário. Este aparelho contém VOLTAGENS PERIGOSAS e só deve ser aberto por um técnico qualificado e treinado. Para evitar a possibilidade de CHOQUE ELÉTRICO, desconecte o aparelho da fonte de energia eléctrica antes de conectar e desconectar os cabos da LAN.
- 6  **PERIGO DE CHOQUE CAUSADO POR RAIOS**
PERIGO: NÃO TRABALHE no equipamento ou nos CABOS durante períodos suscetíveis a QUEDAS DE RAIOS.
- 7  **ELÉTRICO - EQUIPAMENTOS DO TIPO CLASSE 1**
DEVE SER FEITA LIGAÇÃO DE FIO TERRA PARA ESTE EQUIPAMENTO. O plugue de alimentação deve ser conectado a uma tomada com adequada ligação de fio terra. Tomadas sem adequada ligação de fio terra podem transmitir voltagens perigosas a peças metálicas expostas.
- 8  **EQUIPAMENTO DE LIGAÇÃO**, a tomada eléctrica deve estar instalada perto do equipamento e ser de fácil acesso."
- 9  **CUIDADO:** As aberturas de ventilação não devem ser bloqueadas e devem ter acesso livre ao ar ambiente para arrefecimento adequado do aparelho.
- 10  **TEMPERATURA DE FUNCIONAMENTO:** Este produto foi projetado para uma temperatura ambiente máxima de 40 graus centígrados.

-  **11**  **TODOS OS PAÍSES:** Instale o produto de acordo com as normas nacionais e locais para instalações elétricas.

Estándares: Este producto cumple con los siguientes estándares.

- | | | |
|---|---|--|
| 1 | Emisión RFI | FCC Clase A, EN55022
Clase A, VCCI
Class A, C-TICK,
EN61000-3-2,
EN61000-3-3 |
| 2 |  ADVERTENCIA: en un entorno doméstico, este producto puede causar radiointerferencias, en cuyo caso, puede requerirse del usuario que tome las medidas que sean convenientes al respecto. | |
| 3 | Inmunidad | EN55024 |
| 4 | Seguridad eléctrica | UL 60950 (CULUS),
EN60950 (TUV) |

SEGURIDAD


- 5  **AVISOS ELECTRICOS**
ADVERTENCIA: PELIGRO DE ELECTROCHOQUE
Para evitar un ELECTROCHOQUE, no quite la tapa. No hay ningún componente en el interior al cual puede prestar servicio el usuario. Esta unidad contiene VOLTAJES PELIGROSOS y sólo deberá abrirla un técnico entrenado y calificado. Para evitar la posibilidad de ELECTROCHOQUE desconecte la corriente eléctrica que llega al producto antes de conectar o desconectar los cables LAN.
- 6  **PELIGRO DE RAYOS**
PELIGRO: NO REALICE NINGUN TIPO DE TRABAJO O CONEXION en los equipos o en LOS CABLES durante TORMENTAS ELECTRICAS.
- 7  **ELECTRICO - EQUIPO DEL TIPO CLASE 1**
ESTE EQUIPO TIENE QUE TENER CONEXION A TIERRA. El cable tiene que conectarse a un enchufe a tierra debidamente instalado. Un enchufe que no está correctamente instalado podría ocasionar tensiones peligrosas en las partes metálicas que están expuestas.
- 8  **EQUIPO CONECTABLE**, el tomacorriente se debe instalar cerca del equipo, en un lugar con acceso fácil".
- 9  **ATENCION:** Las aberturas para ventilación no deberán bloquearse y deberán tener acceso libre al aire ambiental de la sala para su enfriamiento.
- 10  **TEMPERATURA REQUERIDA PARA LA OPERACIÓN:** Este producto está diseñado para una temperatura ambiental máxima de 40 grados C.

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PARA TODOS LOS PAÍSES: Monte el producto de acuerdo con los Códigos Eléctricos locales y nacionales.

Standarder: Denna produkt uppfyller följande standarder.

- | | | |
|---|---|--|
| 1 | Radiostörning | FCC Klass A, EN55022
Klass A, VCCI
Class A, C-TICK,
EN61000-3-2,
EN61000-3-3 |
| 2 |  WARNING: Denna produkt kan ge upphov till radiostörningar i hemmet, vilket kan tvinga användaren till att vidtaga erforderliga åtgärder. | |
| 3 | Immunitet | EN55024 |
| 4 | Elsäkerhet | UL 60950 (CULUS),
EN60950 (TUV) |

SÄKERHET

- 5  **TILLKÄNNAGIVANDEN BETRÄFFANDE ELEKTRICITETSRISK:** RISK FÖR ELEKTRISK STÖT För att undvika ELEKTRISK stöt, ta ej av locket. Det finns inga delar inuti som behöver underhållas. Denna apparat är under HÖGSPÄNNING och får endast öppnas av en utbildad kvalificerad tekniker. För att undvika ELEKTRISK STÖT, koppla ifrån produktens strömanslutning innan LAN-kablarna ansluts eller kopplas ur.
- 6  **FARA FÖR BLIXTNEDSLAG**
FARA: ARBETA EJ på utrustningen eller kablarna vid ÅSKVÄDER.
- 7  **ELEKTRISKT - TYP KLASS 1 UTRUSTNING**
DENNA UTRUSTNING MÅSTE VARA JORDAD. Nätkabeln måste vara ansluten till ett ordentligt jordat uttag. Ett felaktigt uttag kan göra att närliggande metalldelar utsätts för högspänning. Apparaten skall anslutas till jordat uttag, när den ansluts till ett nätverk.
- 8  **UTRUSTNING MED PLUGG.** Uttaget skall installeras i utrustningens närhet och vara lättåtkomligt".
- 9  **WARNING:** Luftventilerna får ej blockeras och måste ha fri tillgång till omgivande rumsluft för avsvälning.
- 10  **DRIFTSTEMPERATUR:** Denna produkt är konstruerad för rumstemperatur ej överstigande 40 grader Celsius.
- 11  **ALLA LÄNDER:** Installera produkten i enlighet med lokala och statliga bestämmelser för elektrisk utrustning.