

AT-RPS3004 Redundent Power Supply Unit & AT-PWR3004 Power Module Installation Guide

Overview

The AT-RPS3004 can supply redundant power for up to four Ethernet switches. It provides external power to the switch should the primary (internal) power supply unit fail. Initially, it contains one pre-installed AT-PWR3004 power module. Each AT-PWR3004 power module can support one switch.

You can purchase additional power modules from your Allied Telesis representative. If you purchased more AT-PWR3004 Power Modules, they must be installed in the AT-RPS3004 Redundent Power Supply Unit. The power modules cannot be used as standalone units.

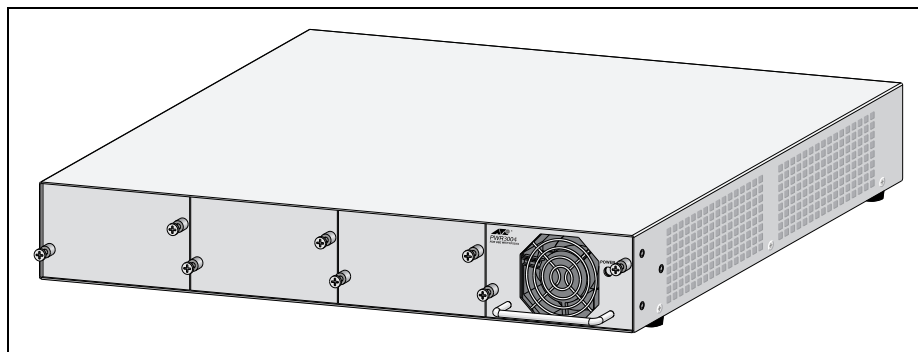
This power supply supports the following Fast Ethernet Switches:

- AT-8016F/MT
- AT-8016F/SC
- AT-8024M
- AT-8516F/SC
- AT-8524M
- AT-8550/SP
- AT-8624T/2M
- AT-8648T/2SP

The AT-RPS3004 can be installed on a desktop or in a standard 19-inch equipment rack.







Note

It is not necessary to power OFF the AT-RPS3004 unit or the connected Ethernet switches to install a new AT-PWR3004 power module.



Safety Statement

Please review the following safety statements before you begin this installation. A translation of these safety statements is available in PDF format titled “Translated Safety Statements” and may be found at www.alliedtelesis.com.

E1		Warning: 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.
E2		Warning: Do not work on equipment or cables during periods of lightning activity.
E3		Warning: Power cord is used as a disconnection device. To de-energize equipment, disconnect the power cord.
E4		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.
E5		Pluggable Equipment. The socket outlet shall be installed near the equipment and shall be easily accessible.
E6		Caution: Air vents must not be blocked and must have free access to the room ambient air for cooling.
E7		Warning: Operating Temperature. This product is designed for a maximum ambient temperature of 40° degrees C.
E8		All Countries: Install product in accordance with local and National Electrical Codes.
E21		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.
E25		Warning: Mounting of the equipment in the rack should be such that a hazardous condition is not created due to uneven mechanical loading.
E35		If installed in a closed or multi-unit rack assembly, the operating 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 (Tmra).
E36		Caution: 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.
E37		Warning: Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuits (e.g., use of power strips).

Related Documents

The Allied Telesis web site offers you an easy way to access the most recent documentation, software, and technical information for all of our products. For details on the features and functions of your Allied Telesis Fast Ethernet Switch, go to www.alliedtelesis.com.

Package Contents for the AT-RPS3004 Power Supply Unit

Make sure the following items are included in the shipping package..

- AT-RPS3004 Power Supply Unit (chassis) with pre-installed AT-PWR3004 Power Module
- Two Rack Mounting Brackets with six mounting screws
- One AC power cord and one DC power cord
- Installation Guide and Warranty Card

Package Contents for an AT-PWR3004 Power Module

If you have purchased the AT-PWR3004 power module, make sure the following items are included in the shipping package.

- One AT-PWR3004 Power Module
- One DC power cord
- Installation Guide and Warranty Card

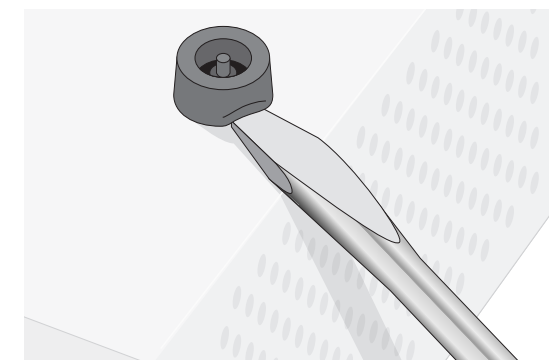
Installing an AT-RPS3004 Power Supply Unit

Note

The redundant power supply should be installed close to the switches so that you can easily connect the RPS DC cables to the unit. It is recommended that you install the redundant power supply directly above or below your Ethernet switch.

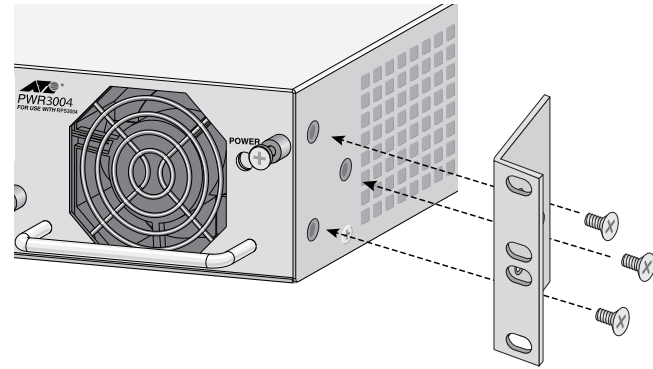
Perform the following procedure to install the power supply in a standard 19-inch rack. If you are not installing the power supply in a rack, go to step 7:

1. Place the unit upside down on a level, secure surface.
2. Using a flat-head screwdriver, remove the snap-on plastic feet from the bottom of the power supply, as displayed below.

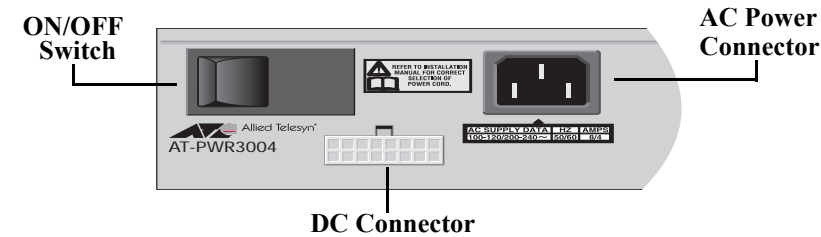


3. Turn the power supply right side up.

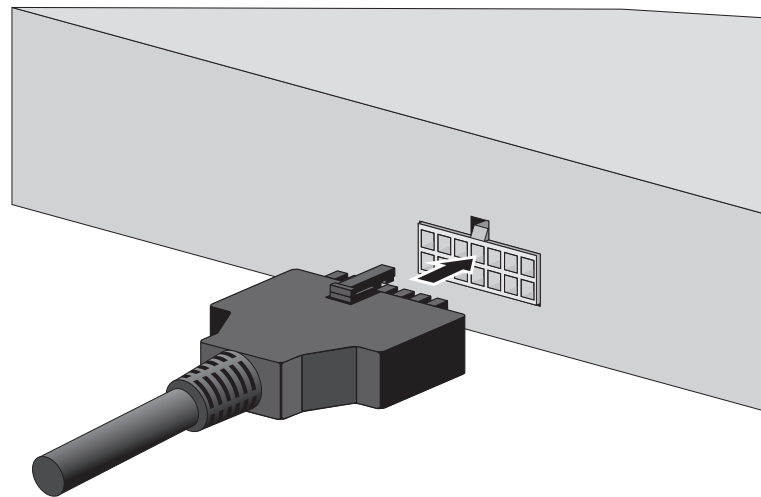
- Attach the two rackmounting brackets to each side of the power supply chassis using the six screws that came with the RPS chassis, as displayed below.



- Mount the power supply in the 19-inch rack using standard screws (not provided).
- Attach the provided DC power cord to the DC connector on the back panel of the AT-RPS3004 power supply.



- Connect the other end of the DC power cord to the RPS Input connector on the back panel of the Ethernet switch.



- Plug the AC power cord for the AT-RPS3004 into the AC connector on the back panel of the unit.

Note

The AT-RPS3004 unit and Ethernet switches should be connected to power outlets on separate circuits. This will protect the switches from a loss of power should the switch circuit breaker trip.

- Plug the other end of the AC power cord into a wall outlet.

- Turn on the AT-RPS3004 unit using the switch on the back panel of the unit.
- Make sure the LED on the front of the power supply is solid green.
- Make sure the RPS LED on the front of the Ethernet switch is green. This indicates a good connection to the AT-RPS3004 unit.

Installing an Additional AT-PWR3004 Power Supply Module

Note

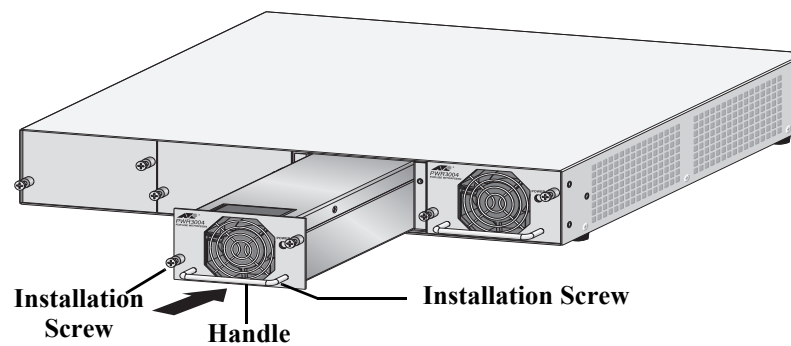
The AT-PWR3004 power module must be installed in an AT-RPS3004 chassis. It cannot be used as a standalone unit.

Note

It is not necessary to power OFF the AT-RPS3004 unit or the connected Ethernet switches to install a new AT-PWR3004 power module.

To install an additional AT-PWR3004 power module, perform the following steps:

- Remove the AT-PWR3004 power module from the shipping package and store the packing material in a safe place.
- Remove a blank faceplate from an empty expansion slot from the front of the AT-RPS3004 unit by unscrewing the two installation screws with a Phillips screwdriver.
- Before installing the new AT-PWR-3004 power module, identify the DC power connector on the back panel of the AT-RPS3004 unit directly behind the power module slot where the new power module will be installed and attach one end of the provided DC power cord to this DC connector.
- Attach the other end of the DC power cord to the RPS Input connector on the back panel of the Ethernet switch.
- Place one hand under the AT-PWR3004 power module to support it and place the other hand on the handle. Slide the new AT-PWR3004 power module into the chassis, as displayed below, to guide the module into the unit.



- Once firmly installed, use a Phillips screwdriver to tighten the installation screws on the module to secure it to the chassis.
- Make sure the LED on the front of the AT-PWR3004 power module is green.
- Make sure the RPS LED on the front of the Ethernet switch is green. This indicates a good connection to the AT-PWR3004 power module.

Technical Specifications

Dimensions:

AT-RPS3004 Unit:	44 cm x 35.56 cm x 6.6 cm (17.32 in x 14 in x 2.6 in)
AT-PWR3004 Power Module:	30.48 cm x 10.8 cm x 6.35 cm (12 in x 4.25 in x 2.5 in)

Weight:

AT-RPS3004 Fully Loaded:	9.46 kg (20.85 lb)
AT-PWR3004 Power Module:	1.06 kg (2.35 lb)

Input Voltage:

100 to 264 VAC

Input Frequency Range:

50 to 60 Hz

Maximum Operating Temperature:

-20° C to 40° C (-4° F to 104° F)

Maximum Storage Temperature:

-40° C to 70° C (-40° F to 158° F)

Operating and Storage Altitude:

Up to 3,048 meters (10,000 ft)

Humidity:

8% to 95% (non-condensing)

EMC:

FCC Class A,
EN55022 Class A, EN55024


Safety:

EN60825, EN60950 (TUV),
UL1950 (UL/cUL)

Electrical Safety and Emission 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.

Emission	FCC Class A, EN55022 Class A, VCCI Class A
WARNING:	In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
	
Immunity	EN55024
Electrical Safety	UL1950 (UL/cUL), EN60950 (TUV)

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