

A large red graphic on the left side of the page, consisting of three downward-pointing chevrons stacked vertically. A vertical black line is positioned to the right of this graphic, separating it from the text.

# Expansion Chassis

AP9600

Installation Manual

**APC**<sup>®</sup>



# Content

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# Product Description

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## Overview

The APC® Expansion Chassis allows the use of APC management cards with APC UPSs that are not equipped with a card slot but do have an advanced computer interface port. The Expansion Chassis can also be used with UPSs that have a card slot to provide additional management cards as shown below.

- Card slot
- Cable marked UPS for connecting to the computer interface port of the UPS
- Power connector for an optional power adapter
- UPS Monitoring port that duplicates the functions of the UPS's computer interface port
- Status indicator



# Installation

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## Compatibility

The Expansion Chassis can be used with any APC device equipped with an advanced computer interface port. This includes Smart-UPS® and Symmetra® products, and any other accessories that duplicate the functions of a UPS computer interface port, such as Share-UPS®.

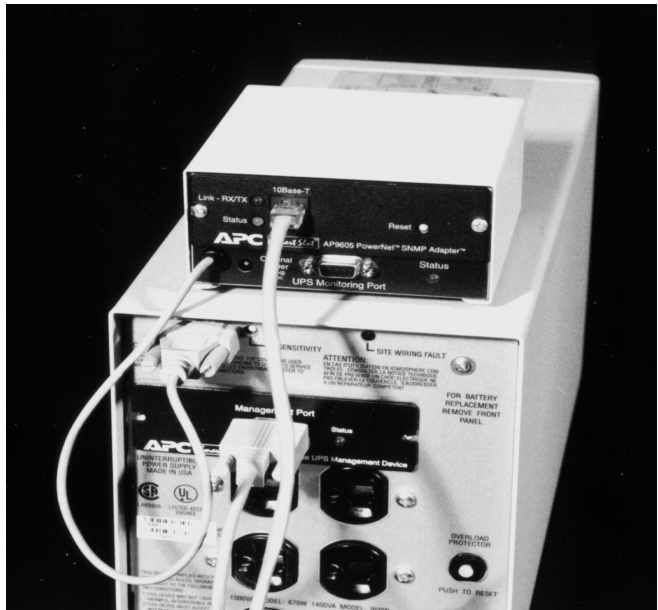
## Installation procedure

1. Connect the cable labeled “UPS” to the computer interface port of the UPS.
2. Connect the second Expansion Chassis with the cable labeled “UPS” to the UPS monitoring port.



### Note

Two Expansion Chassis can be connected together to provide up to three card slots (including the one in the UPS). Do not connect more than two Expansion Chassis to any UPS.



**Power adapter** The optional power adapter (AP9505, not supplied) is for 100/120 V systems only, if required. The power adapter is required under the following conditions:

- Smart-UPS
  - Serial number prior to S9405
  - Serial number starting with the letter W
  - All Smart-UPS 250 models
- Matrix-UPS
  - When remote turn-on of the UPS is required.

If you need to obtain a power adapter contact APC Customer Service at a telephone number on the back cover, if needed.



Decide whether to connect the AC adapter into a wall outlet or a protected UPS Outlet. If the device needs to function during a power outage connect the power adapter into one of the AC outlets on the UPS. If remote turn-on operation is required connect the power adapter into a wall outlet. See “Operation” on page 4 before installing any UPS accessory in the Expansion Chassis.

# Operation

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## Checking operation

1. After installation of the Expansion Chassis and before installing a UPS accessory, confirm that the indicator light is dimly lit.
2. After installation of a UPS accessory confirm that the indicator light is brightly lit.
3. Confirm the operation of the UPS accessory.

## Status LED

The Expansion Chassis status LED indicates the following states:

State	Indication
Bright	The accessory is installed and the Expansion Chassis has power.
Dim	The accessory is not installed and the Expansion Chassis has power.
Off	The Expansion Chassis has no power.



# Specifications

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## Product specification

Item	Specification
<b>Electrical</b>	
Operating voltage:	18–30 V
Operating current draw:	30 mA (exclusive of installed accessory)
<b>Physical</b>	
Size (H × W × D):	2.75 × 5 × 5.25 in 7 × 12.7 × 13.3 cm
Weight:	1.5 lb 0.7 kg
Shipping weight:	2 lb 0.9 kg
<b>Environmental</b>	
Operating elevation (storage):	0 to 10,000 ft (0 to 50,000 ft) 0 to 3000 m (0 to 15 000 m)
Operating temperature (storage):	–5 to 45 °C (–25 to 65 °C) 23 to 113 °F (–13 to 149 °F)
<b>Approvals</b>	
EMC verification:	FCC Class B, DoC Class B, EN55022 Class B, VCCI, AS.NZS 3548
Electromagnetic immunity:	EN50024 verified

# Warranty and Service

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## **Limited warranty**

APC warrants the Expansion Chassis to be free from defects in materials and workmanship for a period of two years from the date of purchase. Its obligation under this warranty is limited to repairing or replacing, at its own sole option, any such defective products. This warranty does not apply to equipment that has been damaged by accident, negligence, or misapplication or has been altered or modified in any way. This warranty applies only to the original purchaser.

## **Obtaining service**

To obtain support for problems with your Expansion Chassis:

1. Note the serial number and date of purchase.
2. Contact Customer Support at a phone number on the back cover of this document. A technician will try to help you solve the problem by phone.
3. If you must return the product, the technician will give you a return material authorization (RMA) number. If the warranty expired, you will be charged for repair or replacement.
4. Pack the unit carefully. The warranty does not cover damage sustained in transit. Enclose a letter with your name, address, RMA number and daytime phone number; a copy of the sales receipt; and a check as payment, if applicable.
5. Mark the RMA number clearly on the outside of the shipping carton.
6. Ship by insured, prepaid carrier to the address provided by the Customer Support technician.

**Warranty  
limitations**

Except as provided herein, APC makes no warranties, express or implied, including warranties of merchantability and fitness for a particular purpose. Some jurisdictions do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

Except as provided above, in no event will APC be liable for direct, indirect, special, incidental, or consequential damages arising out of the use of this product, even if advised of the possibility of such damage.

Specifically, APC is not liable for any costs, such as lost profits or revenue, loss of equipment, loss of use of equipment, loss of software, loss of data, costs of substitutes, claims by third parties, or otherwise. This warranty gives you specific legal rights and you may also have other rights, which vary according to jurisdiction.

# Life-Support Policy

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## General policy

American Power Conversion (APC) does not recommend the use of any of its products in the following situations:

- In life-support applications where failure or malfunction of the APC product can be reasonably expected to cause failure of the life-support device or to affect significantly its safety or effectiveness.
- In direct patient care.

APC will not knowingly sell its products for use in such applications unless it receives in writing assurances satisfactory to APC that (a) the risks of injury or damage have been minimized, (b) the customer assumes all such risks, and (c) the liability of American Power Conversion is adequately protected under the circumstances.

## Examples of life-support devices

The term *life-support device* includes but is not limited to neonatal oxygen analyzers, nerve stimulators (whether used for anesthesia, pain relief, or other purposes), autotransfusion devices, blood pumps, defibrillators, arrhythmia detectors and alarms, pacemakers, hemodialysis systems, peritoneal dialysis systems, neonatal ventilator incubators, ventilators (for adults and infants), anesthesia ventilators, infusion pumps, and any other devices designated as “critical” by the U.S. FDA.

Hospital-grade wiring devices and leakage current protection may be ordered as options on many APC UPS systems. APC does not claim that units with this modifications are certified or listed as hospital-grade by APC or any other organization. Therefore these units do not meet the requirements for use in direct patient care.

# Radio Frequency Interference

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Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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, 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 or TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003.

*Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.*



## APC Worldwide Customer Support

Customer support for this or any other APC product is available at no charge in any of the following ways:

- Visit the APC Web site to find answers to frequently asked questions (FAQs), to access documents in the APC Knowledge Base, and to submit customer support requests.
  - **www.apc.com** (Corporate Headquarters)  
Connect to localized APC Web sites for specific countries, each of which provides customer support information.
  - **www.apc.com/support/**  
Global support with FAQs, knowledge base, and e-support.
- Contact an APC Customer Support center by telephone or e-mail.
  - Regional centers:

APC Headquarters U.S. & Canada	(1) (800) 800-4272 (toll free)
Latin America	(1) (401) 789-5735 (United States)
Europe, Middle East, Africa	(353) (91) 702020 (Ireland)
Japan	(03) 5434-2021 Guidance 3

- Local, country-specific centers: go to **www.apc.com/support/contact** for contact information.

Contact the APC representative or other distributor from whom you purchased your APC product for information on how to obtain local customer support.

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