

CONVERTEON™ Family AT-CVFAN Module Installation Guide

For use with the AT-CV5000 Chassis

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Overview

The AT-CVFAN module, as shown in Figure 1, is designed for use with the AT-CV5000 chassis. The same fan module can be installed in either fan slot labeled A or B, located at the rear of the AT-CV5000 chassis. For proper operation, an AT-CV5000 chassis comes preinstalled with two field-replaceable AT-CVFAN modules.

This installation guide provides instructions for the fan replacement in case one of the AT-CVFAN modules failed.

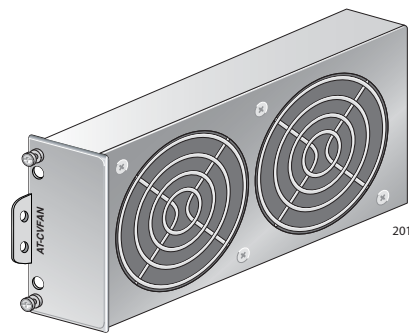


Figure 1. AT-CVFAN Module

Related Documents

This installation guide is an abbreviated version of the installation procedure. For details on the components, features, and functions of this product, refer to the following documents on our web site, www.alliedtelesis.com:

- ❑ *AT-CV5000 Media Converter Chassis Installation Guide (PN 613-50580-00)*
- ❑ *AT-S70 Management Software User's Guide (PN 613-50617-00)*

Package Contents

Make sure the following items are included in the shipping package. If any item is missing or damaged, contact your Allied Telesis sales representative for assistance.

- ❑ One AT-CVFAN Module
- ❑ This Installation Guide
- ❑ Warranty Card

Locations of the Fan Slots

Figure 2 illustrates the locations of the two fan modules at the rear of the AT-CV5000 chassis.

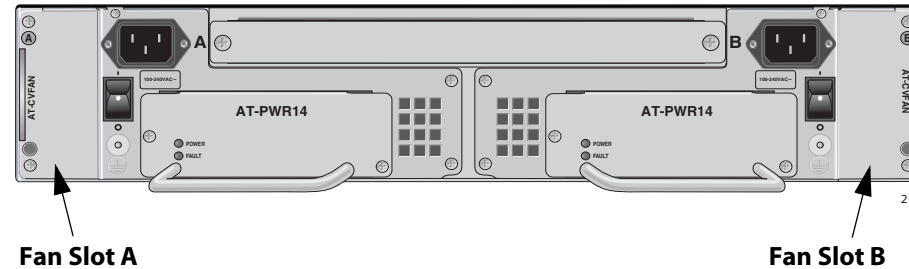


Figure 2. Locations of Fan Slots A & B on an AT-CV5000 Rear Panel

Before replacing an AT-CVFAN module, please note the following guidelines:

Caution
Be sure to observe all standard electrostatic discharge (ESD) precautions, such as wearing an antistatic wrist strap, to avoid damaging the device. A fan module can be damaged by static electricity.

Caution
Refer to the *AT-CV5000 Chassis Installation Guide* for electrical safety and emission information.

Warning
Remove jewelry before replacing the fan modules.

Warning
Watch your fingers when handling the fan modules.

Warning
To avoid electric shock, do not intend to touch the inside of the fan slots.

Replacing an AT-CVFAN Module

You can replace the AT-CVFAN module in either one of the two fan slots located at the rear of the AT-CV5000 chassis.

Caution
For normal operation, both fans must be installed in the chassis.

Caution
The AT-CVFAN modules are field-replaceable; however, they are not hot-swappable. Therefore, make sure to power OFF the chassis before installing the fan modules.

To replace an AT-CVFAN module, perform the following procedure:

1. Power OFF the chassis.
2. Using a Phillips screwdriver, loosen the captive screws at the top and bottom of the installed fan module faceplate.
3. Pull the loosened screws to slide the fan module out of the chassis, as shown in Figure 3 or Figure 4.

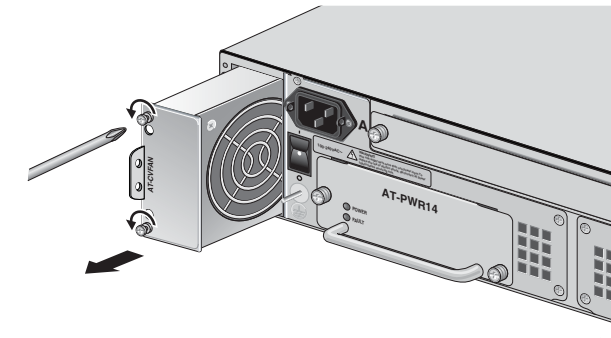


Figure 3. Removing an AT-CVFAN Module from the Fan Slot A

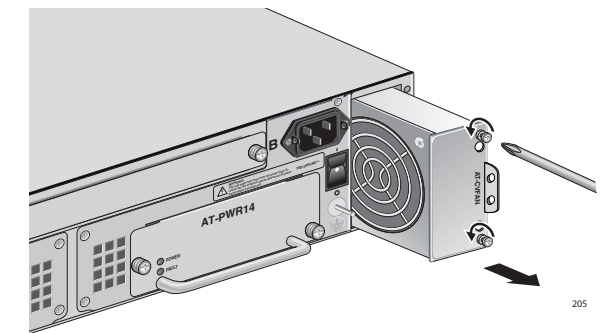


Figure 4. Removing an AT-CVFAN Module from the Fan Slot B

4. While waiting for the fan to spin down, unpack the new AT-CVFAN module from the shipping package and store the packaging material in a safe location.



**Caution**

Be sure to observe all standard electrostatic discharge (ESD) precautions, such as wearing an antistatic wrist strap, to avoid damaging the device. A fan module can be damaged by static electricity.

Note

You must use the original shipping material if you need to return the fan module to Allied Telesis.

- Carefully remove the fan module from the chassis.
- Make sure the handles on the fan modules are aligned to the side edges of the chassis. For example, the handle on the fan module inserting into Fan Slot A should be on the left and the handle on the module inserting into Fan Slot B should be on the right, as shown in Figure 6.

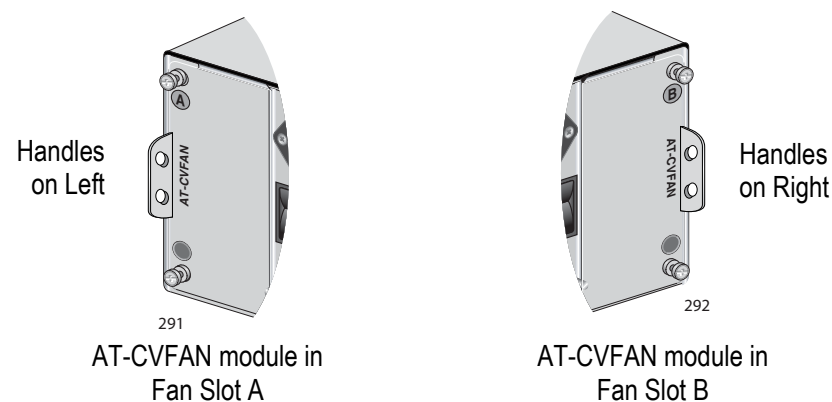


Figure 5. Aligning the AT-CVFAN Modules to the AT-CV5000 Chassis

- Align the new fan module with the bottom alignment guide, located inside the fan slot.
- Slide the new fan module into the fan slot, as shown in Figure 6 or Figure 7, until the front of the fan module is flush with the front of the chassis.

**Caution**

Avoid touching the fan blades.

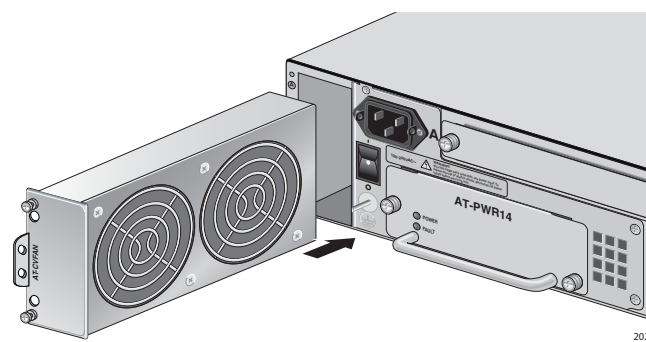


Figure 6. Inserting an AT-CVFAN Module into the Fan Slot A

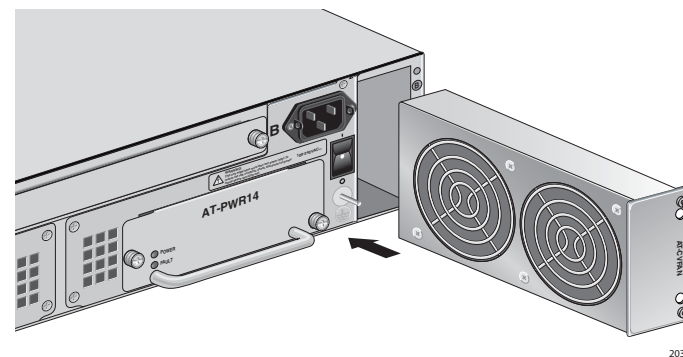


Figure 7. Inserting an AT-CVFAN Module into the Fan Slot B

- Tighten the two captive screws on the fan module, as shown in Figure 8 or Figure 9.

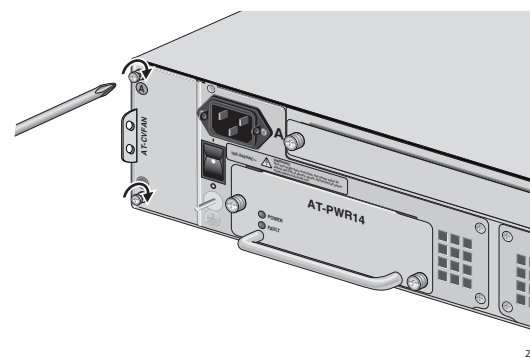


Figure 8. Tightening the Screws on the AT-CVFAN Module in Fan Slot A

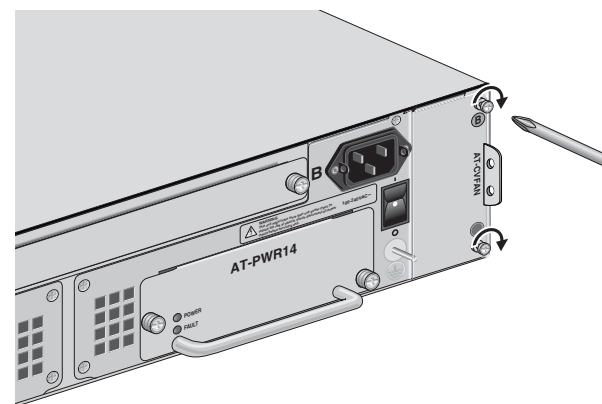


Figure 9. Tightening the Screws on the AT-CVFAN Module in Fan Slot B

You have completed the fan replacement procedure.

To power on the chassis, proceed to the procedure described in the "Powering On an AC Powered Chassis" section in the *AT-CV5000 Chassis Installation Guide*.

When the connection is established, the fan LED (FAN-A or FAN-B) on the LED interface card should show green. If the LED is OFF, refer to the "Troubleshooting" section in the *AT-CV5000 Chassis Installation Guide*.

Technical Specifications**Physical and Environmental**

Dimensions (H x W x L)	2.7 cm x 8.3 cm x 18.8 cm 1.080 in x 3.287 in x 7.395 in
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 Relative Humidity	5% to 90% RH (non-condensing)
Storage Relative Humidity	5% to 95% RH (non-condensing)
Operating Altitude Range	Up to 3,048 m (10,000 ft)

Electrical Ratings

Rated Voltage	12V DC
Operation Voltage	7.0V DC - 13.2V DC
Input Current	0.23 A (maximum 0.34 A)
Input Power	2.76 W (maximum 4.08 W)

Electrical Safety and Emission Statement

Standards: This product meets the following standards when installed in compliant host equipment.

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, C-TICK, CE

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 UL60950 (UL_cUL), EN60950 (TUV), CSA22.2 No. 950