HP FlexFabric 7904 Fan Tray (JG684A)

User Guide

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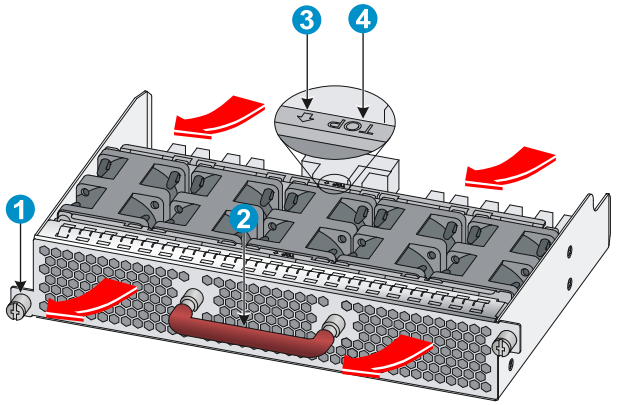
Fan tray overview

Introduction

The HP FlexFabric 7904 front (port side) to back (power side) airflow Fan Tray (JG684A) provides powerful cooling and heat dissipation for the switch. It blows exhaust air out of the switch from the port side to the power side. The fan tray has five fans and features small size, fast heat dissipation, and hot swapping. It can automatically adjust the fan speed based on the switch temperature.

Figure 1 Fan tray view



(1) Captive screw

(2) Handle (The handle is in red, indicating that the fan tray blows exhaust air out of the switch from the port side to the power side.)	
(3) Air flow sign	(4) This side up sign

The switch provides a LED on the power side panel for each fan tray to indicate the operating status of the fan tray. When the switch is running, the LED can have the following states:

- **Green**—The fan tray is operating correctly.
- **Red**—No fan tray is installed or the fan tray is faulty.

Specifications

Table 1 Specifications

Item	Specification
Number of fans	Five 40 × 40 × 56 mm (1.57 × 1.57 × 2.20 in) fans
Air flow direction	From the switch port side to the power side
Max fan speed	22100 revolutions per minute (R.P.M.)
Max air volume	105 cubic foot per minute (CFM)
Max power consumption	130 W
Min power consumption	18 W
Voltage	12 V

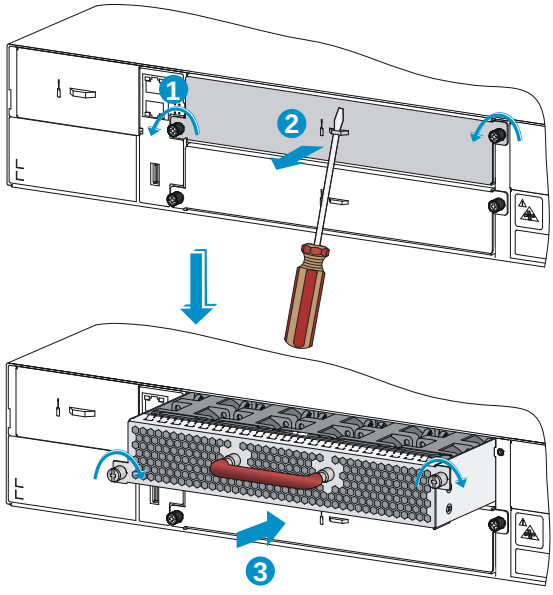
Installing and replacing the fan tray

Installing the fan tray

1. Wear an ESD wrist strap, and make sure it makes good skin contact and is correctly grounded.
2. Use a Phillips screwdriver to loosen the captive screws on the blank panel of the fan tray slot. See callout 1 in Figure 2.
3. Thread a flat-head screwdriver through the handle on the blank panel and pull out the blank panel gently. See callout 2 in Figure 2.

   Keep the removed blank panel for future use.
4. Unpack the fan tray.
5. Holding the fan tray with both hands with the upside (marked with a "TOP" sign) up, gently push the fan tray into the slot along the guide rails until the fan tray completely seats into the slot. See callout 3 in Figure 2.
6. Use a Phillips screwdriver to tighten the captive screws on the fan tray to make sure the fan tray is fully seated in the slot.
7. Verify the fan tray installation by examining the fan tray LED on the power side.
   - If the LED is steady green, the installation is correct.
   - If the LED is in red, the fan tray is faulty. Remove and re-install the fan tray. If the problem persists, contact HP Support.

Figure 2 Installing the fan tray



NOTE:

- If you insert the fan tray with the upside down, you cannot completely insert it into the slot. If this happens, pull the fan tray out and then insert it again with the upside up.
- If the captive screws cannot be attached tightly, check for the installation of the fan tray.

Replacing the fan tray

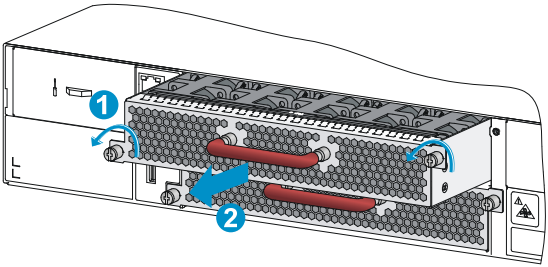
CAUTION:

- When you replace a fan tray from a running switch, be cautious of electricity hazards, and do not touch the rotating fan to avoid bodily injury.
- If a fan tray fails, finish replacing the fan tray within 5 minutes. If both fan trays fail, finish replacing the fan trays within 3 minutes to avoid switch damage.

To replace a fan tray:

1. Prepare an antistatic bag for the removed fan tray.
2. Wear an ESD wrist strap, and make sure it makes good skin contact and is correctly grounded.
3. Use a screwdriver to loosen the captive screws of the fan tray. See callout 1 in Figure 3.
4. Holding the handle of the fan tray, pull the fan tray out of the chassis. See callout 2 in Figure 3.
5. Put the removed fan tray into the antistatic bag.
6. Install a new fan tray. For more information, see "Installing the fan tray."

Figure 3 Removing the fan tray



Support and other resources

Contacting HP

For worldwide technical support information, see the HP support website:

http://www.hp.com/support

Before contacting HP, collect the following information:

- Product model names and numbers
- Technical support registration number (if applicable)
- Product serial numbers
- Error messages
- Operating system type and revision level
- Detailed questions

Subscription service

HP recommends that you register your product at the Subscriber's Choice for Business website:

http://www.hp.com/go/wwalerts

After registering, you will receive email notification of product enhancements, new driver versions, firmware updates, and other product resources.

Related information

Documents

To find related documents, browse to the Manuals page of the HP Business Support Center website:

http://www.hp.com/support/manuals

- For related documentation, navigate to the Networking section, and select a networking category.
- For a complete list of acronyms and their definitions, see *HP FlexNetwork Technology Acronyms*.

Websites

- HP.com http://www.hp.com
- HP Networking http://www.hp.com/go/networking
- HP manuals http://www.hp.com/support/manuals

- HP download drivers and software http://www.hp.com/support/downloads
- HP software depot http://www.software.hp.com
- HP Education http://www.hp.com/learn

Conventions

This section describes the conventions used in this documentation set.

Command conventions

Convention	Description
Boldface	**Bold** text represents commands and keywords that you enter literally as shown.
Italic	*Italic* text represents arguments that you replace with actual values.
[ ]	Square brackets enclose syntax choices (keywords or arguments) that are optional.
{ x | y | ... }	Braces enclose a set of required syntax choices separated by vertical bars, from which you select one.
[x | y | ...]	Square brackets enclose a set of optional syntax choices separated by vertical bars, from which you select one or none.

Convention	Description
{ x | y | ... } *	Asterisk-marked braces enclose a set of required syntax choices separated by vertical bars, from which you select at least one.
[x | y | ...] *	Asterisk-marked square brackets enclose optional syntax choices separated by vertical bars, from which you select one choice, multiple choices, or none.
&<1-n>	The argument or keyword and argument combination before the ampersand (&) sign can be entered 1 to n times.
#	A line that starts with a pound (#) sign is comments.

GUI conventions

Convention	Description
Boldface	Window names, button names, field names, and menu items are in bold text. For example, the **New User** window appears; click **OK**.
>	Multi-level menus are separated by angle brackets. For example, **File** > **Create** > **Folder**.

Symbols

Convention	Description
WARNING	An alert that calls attention to important information that if not understood or followed can result in personal injury.
CAUTION	An alert that calls attention to important information that if not understood or followed can result in data loss, data corruption, or damage to hardware or software.
IMPORTANT	An alert that calls attention to essential information.
NOTE	An alert that contains additional or supplementary information.
TIP	An alert that provides helpful information.

Network topology icons

	Represents a generic network device, such as a router, switch, or firewall.
	Represents a routing-capable device, such as a router or Layer 3 switch.
	Represents a generic switch, such as a Layer 2 or Layer 3 switch, or a router that supports Layer 2 forwarding and other Layer 2 features.

	Represents a generic network device, such as a router, switch, or firewall.
	Represents an access controller, a unified wired-WLAN module, or the switching engine on a unified wired-WLAN switch.
	Represents an access point.
	Represents a security product, such as a firewall, a UTM, or a load-balancing or security card that is installed in a device.
	Represents a security card, such as a firewall card, a load-balancing card, or a NetStream card.

Port numbering in examples

The port numbers in this document are for illustration only and might be unavailable on your device.