

7 Fan Modules

If one fan module (including the built-in fan module) of a switch is faulty, the other fan modules run at full speed to ensure proper heat dissipation and normal operation of the system.

[7.1 CX7E1FANA Fan Module](#)

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[7.4 FAN-023A-B \(Fan box\(B,FAN panel side exhaust\)\)](#)

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7.1 CX7E1FANA Fan Module

Product Support

Table 7-1 lists the switch chassis matching a CX7E1FANA fan module.

Table 7-1 Switch chassis matching a CX7E1FANA fan module

Fan Module Name	Product Support
CX7E1FANA fan module	S5700-28C-SI, S5700-52C-SI, S5700-28C-PWR-SI, S5700-52C-PWR-SI, S5700-24TP-PWR-SI, S5700-48TP-PWR-SI, S5700-EI, and S5710-C-LI

Appearance

Figure 7-1 shows the appearance of a CX7E1FANA fan module.

Figure 7-1 Appearance of a CX7E1FANA fan module



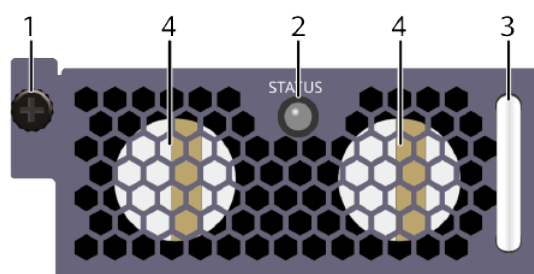
Function

A CX7E1FANA fan module has two fans to cool the chassis. A CX7E1FANA fan module is hot swappable.

Panel Description

Figure 7-2 shows the panel of a CX7E1FANA fan module.

Figure 7-2 Panel of a CX7E1FANA fan module



1. Captive screw	2. Fan module indicator	3. Handle	4. Two fans NOTE Air is exhausted from air vents on the panel.
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Table 7-2 shows indicators on the CX7E1FANA fan module panel.

Table 7-2 Description of indicators on the CX7E1FANA fan module panel

Indicator	Color	Description
STATUS	Off	The fan module is not running.

Indicator	Color	Description
	Green	<ul style="list-style-type: none"> • Slow blinking: The fan module is working properly and its communication is normal. • Fast blinking: The fan module is working properly but its communication is abnormal.
	Red	<ul style="list-style-type: none"> • Steady on: The fan module has a hardware fault and needs to be replaced. • Slow blinking: An alarm has been generated and needs to be handled. Common causes of this alarm include errors of dual in-line package (DIP) switches, short-circuit, fan blades blocked, and other fan module faults.

Specifications

Table 7-3 describes technical specifications of a CX7E1FANA fan module.

Table 7-3 Technical specifications of a CX7E1FANA fan module

Item	Description
Dimensions (H x W x D)	39.6 mm x 103 mm x 99.2 mm
Weight	250±20 g
Maximum power consumption	12 W
Maximum wind pressure	375 Pa
Maximum airflow	40 CFM
Operating voltage range	12 V DC
Part number	02351651

7.2 FAN-028A-B Fan Module

Product Support

Table 7-4 lists the switch chassis matching a FAN-028A-B fan module.

Table 7-4 Switch chassis matching a FAN-028A-B fan module

Fan Module Name	Product Support
FAN-028A-B	S5720-C-EI, S5720-PC-EI, S5730-SI, S5730S-EI series, and S5730-36C-HI, S5730-36C-PWH-HI, S5730-60C-HI, S5730-60C-PWH-HI, S5730-36C-HI-24S

Appearance

Figure 7-3 Appearance of a FAN-028A-B fan module

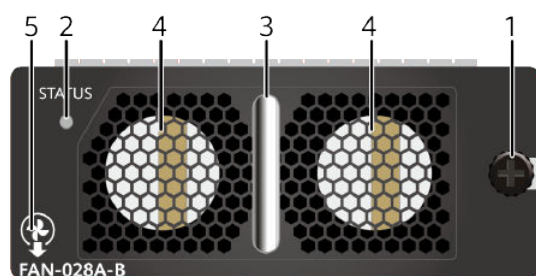


Function

A FAN-028A-B fan module has two fans to cool the chassis. It is hot swappable.

Panel

Figure 7-4 Panel of a FAN-028A-B fan module



1. Captive screw	2. Indicator	3. Handle	4. Two fans	5: Airflow flag (air out)
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Table 7-5 describes the indicator on a FAN-028A-B fan module panel.

Table 7-5 Description of the indicator on a FAN-028A-B fan module panel

Indicator	Color	Description
STATUS: running status indicator	Off	The fan module is not running.
	Green	Slow blinking: Fans are working properly.
	Red	Steady on: The fan module has a hardware fault and needs to be replaced.

Specifications

Table 7-6 describes technical specifications of a FAN-028A-B fan module.

Table 7-6 Technical specifications of a FAN-028A-B fan module

Item	Description
Dimensions (H x W x D)	40 mm x 100 mm x 220 mm (1.57 in. x 3.94 in. x 8.66 in.)
Number of fans	2
Weight	0.34 kg
Maximum power consumption	12 W
Rated fan speed	16000±10% revolutions per minute (RPM)
Maximum airflow	28 cubic feet per minute (CFM)
Part number	02359595

7.3 FAN-40EA-B Fan Module

Product Support

Table 7-7 lists the switch chassis matching a FAN-40EA-B fan module.

Table 7-7 Mapping between device models and the FAN-40EA-B module

Fan Module Name	Product Support
FAN-40EA-B	S5710-108C-PWR-HI

Appearance

Figure 7-5 shows the appearance of a FAN-40EA-B fan module.

Figure 7-5 Appearance of a FAN-40EA-B fan module



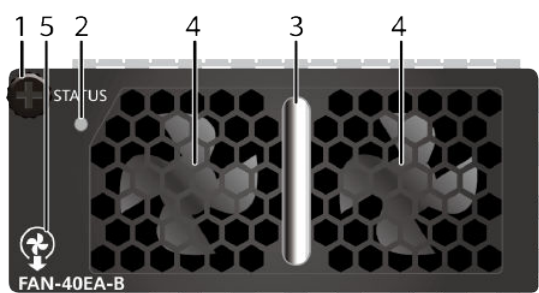
Function

A FAN-40EA-B fan module has two fans to cool the chassis. A FAN-40EA-B fan module is hot swappable.

Panel

Figure 7-6 shows the panel of a FAN-40EA-B fan module.

Figure 7-6 Panel of a FAN-40EA-B fan module



1. Captive screw	2. Indicator	3. Handle	4. Two fans	5: Airflow flag (air out)
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Table 7-8 describes the indicators on the FAN-40EA-B fan module panel.

Table 7-8 Description of indicators on the FAN-40EA-B fan module panel

Indicator	Color	Description
STATUS	Off	The fan module is not running.
	Green	<ul style="list-style-type: none"> • Slow blinking: The fan module is working and communicating normally with the system. • Fast blinking: The fan module is working but is not communicating normally with the system.
	Red	<ul style="list-style-type: none"> • Steady on: The fan module has a hardware fault and needs to be replaced. • Slow blinking: An alarm has been generated and needs to be handled. Common causes of this alarm include errors of dual in-line package (DIP) switches, short-circuit, fan blades blocked, and other fan module faults.

Specifications

Table 7-9 lists technical specifications of a FAN-40EA-B fan module.

Table 7-9 Technical specifications of a FAN-40EA-B fan module

Item	Description
Dimensions (H x W x D)	40.0 mm x 94.5 mm x 183.1 mm
Number of fans	2
Weight	0.325 kg
Maximum power consumption	12.71 W
Maximum speed	18500±10% revolutions per minute (RPM)
Maximum airflow	46 cubic feet per minute (CFM)
Part number	02355338

7.4 FAN-023A-B (Fan box(B,FAN panel side exhaust))

Overview

Table 7-10 Basic information about the FAN-023A-B

Item	Details
Description	Fan box(B,FAN panel side exhaust)
Part Number	02312DKW
Model	FAN-023A-B

Appearance

Figure 7-7 Appearance of the FAN-023A-B



Version Mapping

Table 7-11 Mappings between FAN-023A-B and product models

Product	Product Model	First Supported Version
S5731-S	S5731-S24P4X (02353AHX)	V200R019C00
S5731-S	S5731-S24P4X (02353AHX-001)	V200R020C10
S5731-S	S5731-S24P4X (02353AHX-003)	V200R021C10SPC600

Product	Product Model	First Supported Version
S5731-S	S5731-S24T4X (02353AHU)	V200R019C00
S5731-S	S5731-S24T4X (02353AHU-001)	V200R020C10
S5731-S	S5731-S48P4X (02353AJH)	V200R019C00
S5731-S	S5731-S48P4X (02353AJH-001)	V200R020C10
S5731-S	S5731-S48P4X (02353AJH-003)	V200R021C10SPC600
S5731-S	S5731-S48T4X (02353AJB)	V200R019C00
S5731-S	S5731-S48T4X (02353AJB-003)	V200R020C10
S5731S-S	S5731S-S24P4X-A (02353AHY)	V200R019C00
S5731S-S	S5731S-S24P4X-A (02353AHY-001)	V200R020C10
S5731S-S	S5731S-S24P4X-A (02353AHY-003)	V200R021C10SPC600
S5731S-S	S5731S-S24T4X-A (02353AHV)	V200R019C00
S5731S-S	S5731S-S24T4X-A (02353AHV-001)	V200R020C10
S5731S-S	S5731S-S48P4X-A (02353AJJ)	V200R019C00
S5731S-S	S5731S-S48P4X-A (02353AJJ-001)	V200R020C10
S5731S-S	S5731S-S48P4X-A (02353AJJ-003)	V200R021C10SPC600
S5731S-S	S5731S-S48T4X-A (02353AJC)	V200R019C00
S5731S-S	S5731S-S48T4X-A (02353AJC-003)	V200R020C10
S5731-H	S5731-H24HB4XZ (02354QXD)	V200R021C10SPC500
S5731-H	S5731-H24HB4XZ (02354QXD-001)	V200R021C10SPC600

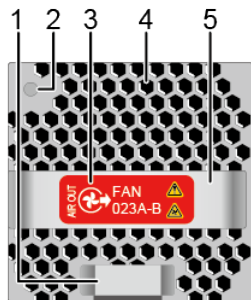
Product	Product Model	First Supported Version
S5731-H	S5731-H24P4XC (02352QPV)	V200R013C02
S5731-H	S5731-H24P4XC (02352QPV-001)	V200R020C10
S5731-H	S5731-H24P4XC (02352QPV-003)	V200R021C10SPC600
S5731-H	S5731-H24T4XC (02352QPP)	V200R013C02
S5731-H	S5731-H24T4XC (02352QPP-001)	V200R020C10
S5731-H	S5731-H24T4XC (02352QPP-005)	V200R021C10SPC600
S5731-H	S5731-H48HB4XZ (02354QXB)	V200R021C10SPC500
S5731-H	S5731-H48HB4XZ (02354QXB-001)	V200R021C10SPC600
S5731-H	S5731-H48P4XC (02352SVD)	V200R013C02
S5731-H	S5731-H48P4XC (02352SVD-001)	V200R020C10
S5731-H	S5731-H48P4XC (02352SVD-003)	V200R021C10SPC600
S5731-H	S5731-H48T4XC (02352QPT)	V200R013C02
S5731-H	S5731-H48T4XC (02352QPT-003)	V200R020C10
S5731-H	S5731-H48T4XC (02352QPT-007)	V200R021C10SPC600
S5731S-H	S5731S-H24HB4XZ-A (02354QXE)	V200R021C10SPC500
S5731S-H	S5731S-H24HB4XZ-A (02354QXE-001)	V200R021C10SPC600
S5731S-H	S5731S-H24T4S-A (02353DJE)	V200R019C00
S5731S-H	S5731S-H24T4S-A (02353DJE-001)	V200R020C10
S5731S-H	S5731S-H24T4S-A (02353DJE-003)	V200R021C10SPC600

Product	Product Model	First Supported Version
S5731S-H	S5731S-H24T4X-A (02353HVH)	V200R019C10
S5731S-H	S5731S-H24T4X-A (02353HVH-001)	V200R020C10
S5731S-H	S5731S-H24T4X-A (02353HVH-003)	V200R021C10SPC600
S5731S-H	S5731S-H24T4XC-A (02352YRG)	V200R019C00
S5731S-H	S5731S-H24T4XC-A (02352YRG-001)	V200R020C10
S5731S-H	S5731S-H24T4XC-A (02352YRG-003)	V200R021C10SPC600
S5731S-H	S5731S-H48HB4XZ-A (02354QXC)	V200R021C10SPC500
S5731S-H	S5731S-H48HB4XZ-A (02354QXC-001)	V200R021C10SPC600
S5731S-H	S5731S-H48T4S-A (02353DJG)	V200R019C00
S5731S-H	S5731S-H48T4S-A (02353DJG-003)	V200R020C10
S5731S-H	S5731S-H48T4S-A (02353DJG-005)	V200R021C10SPC600
S5731S-H	S5731S-H48T4X-A (02353HVJ)	V200R019C10
S5731S-H	S5731S-H48T4X-A (02353HVJ-003)	V200R020C10
S5731S-H	S5731S-H48T4X-A (02353HVJ-005)	V200R021C10SPC600
S5731S-H	S5731S-H48T4XC-A (02352YRF)	V200R019C00
S5731S-H	S5731S-H48T4XC-A (02352YRF-003)	V200R020C10
S5731S-H	S5731S-H48T4XC-A (02352YRF-005)	V200R021C10SPC600
S5735S-H	S5735S-H24S4XC-A (98011041)	V200R021C01
S5735S-H	S5735S-H24T4XC-A (98011025)	V200R020C00

Product	Product Model	First Supported Version
S5735S-H	S5735S-H24U4XC-A (98011033)	V200R020C00
S5735S-H	S5735S-H48T4XC-A (98011029)	V200R020C00
S5735S-H	S5735S-H48U4XC-A (98011037)	V200R020C00
S5736-S	S5736-S24S4XC (98011038)	V200R021C01
S5736-S	S5736-S24UM4XC (98011020)	V200R020C00
S5736-S	S5736-S24UM4XC (98011020-001)	V200R020C00
S5736-S	S5736-S24UM4XC (98011020-004)	V200R020C00
S5736-S	S5736-S48S4XC (98011042)	V200R021C01

Panel

Figure 7-8 Panel of the FAN-023A-B



1. Lock	2. Indicator	3. Airflow flag (air out)	4. Fan air vent	5. Handle
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Table 7-12 Indicators on the FAN-023A-B

Silkscreen	Name	Color	Status	Description
-	Fan status indicator	-	Off	The fan module is not running.

Silkscreen	Name	Color	Status	Description
		Green	Steady on	The fan module is starting.
		Green	Slow blinking	The fan module is working properly.
		Red	Steady on	The fan module has a hardware fault and must be replaced. Common causes include short circuits, fan blades blocked, and faults of the fan module.

Functions and Features

Table 7-13 Functions and features of the FAN-023A-B

Functions and Features	Description
Basic function	The fan module has only one fan to cool the chassis.
Hot swapping	Supported

Technical Specifications

Table 7-14 Technical specifications of the FAN-023A-B

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	40 mm x 40 mm x 100.3 mm (1.57 in. x 1.57 in. x 3.95 in.)
Weight without packaging [kg(lb)]	0.1 kg (0.22 lb)
Number of fans	1

Item	Specification
Maximum power consumption [W]	7.2 W
Maximum heat dissipation [BTU/hour]	24.57 BTU/hour
Maximum fan speed [RPM]	18500 ± 10 %
Maximum airflow [CFM]	23 CFM
Airflow direction	Air exhausted from the panel side of the fan tray

7.5 FAN-031A-B (Fan box(B,FAN panel side exhaust))

Overview

Table 7-15 Basic information about the FAN-031A-B

Item	Details
Description	Fan box(B,FAN panel side exhaust)
Part Number	02352CAB
Model	FAN-031A-B

Appearance

Figure 7-9 Appearance of the FAN-031A-B



Version Mapping

Table 7-16 Mappings between FAN-031A-B and product models

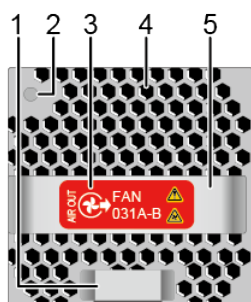
Product	Product Model	First Supported Version
S5732-H	S5732-H24S6Q (02353AJS)	V200R019C00
S5732-H	S5732-H24S6Q (02353AJS-001)	V200R020C10
S5732-H	S5732-H24S6Q (02353AJS-003)	V200R021C10SPC500
S5732-H	S5732-H24S6Q (02353AJS-004)	V200R021C10SPC600
S5732-H	S5732-H24S6Q (02353AJS-005)	V200R021C10SPC600
S5732-H	S5732-H24UM2CC (02353HUC)	V200R019C10
S5732-H	S5732-H24UM2CC (02353HUC-003)	V200R021C10SPC500
S5732-H	S5732-H24UM2CC (02353SJY)	V200R019C10
S5732-H	S5732-H24UM2CC (02353SJY-001)	V200R019C10
S5732-H	S5732-H24UM2CC (02353SJY-004)	V200R019C10
S5732-H	S5732-H24UM2CC (02353SJY-010)	V200R021C10SPC500
S5732-H	S5732-H24UM2CC (02353SJY-011)	V200R021C10SPC500
S5732-H	S5732-H24UM2CC (02353SJY-014)	V200R021C10SPC500
S5732-H	S5732-H24UM2CC (02353SJY-020)	V200R022C00
S5732-H	S5732-H24UM2CC (02353SJY-021)	V200R022C00
S5732-H	S5732-H24UM2CC (02353SJY-024)	V200R022C00
S5732-H	S5732-H48S6Q (02353AJU)	V200R019C00

Product	Product Model	First Supported Version
S5732-H	S5732-H48S6Q (02353AJU-001)	V200R020C10
S5732-H	S5732-H48S6Q (02353AJU-003)	V200R021C10SPC500
S5732-H	S5732-H48S6Q (02353AJU-004)	V200R021C10SPC600
S5732-H	S5732-H48UM2CC (02353HUB)	V200R019C10
S5732-H	S5732-H48UM2CC (02353HUB-002)	V200R021C10SPC500
S5732-H	S5732-H48UM2CC (02353SJT)	V200R019C10
S5732-H	S5732-H48UM2CC (02353SJT-001)	V200R019C10
S5732-H	S5732-H48UM2CC (02353SJT-003)	V200R019C10
S5732-H	S5732-H48UM2CC (02353SJT-004)	V200R019C10
S5732-H	S5732-H48UM2CC (02353SJT-010)	V200R021C10SPC500
S5732-H	S5732-H48UM2CC (02353SJT-011)	V200R021C10SPC500
S5732-H	S5732-H48UM2CC (02353SJT-013)	V200R021C10SPC500
S5732-H	S5732-H48UM2CC (02353SJT-014)	V200R021C10SPC500
S5732-H	S5732-H48UM2CC (02353SJT-020)	V200R022C00
S5732-H	S5732-H48UM2CC (02353SJT-021)	V200R022C00
S5732-H	S5732-H48UM2CC (02353SJT-023)	V200R022C00
S5732-H	S5732-H48UM2CC (02353SJT-024)	V200R022C00
S5732-H	S5732-H48XUM2CC (02353MLH)	V200R019C20
S5732-H	S5732-H48XUM2CC (02353MLH-001)	V200R021C10SPC500

Product	Product Model	First Supported Version
S5732-H	S5732-H48XUM2CC (02353MLH-002)	V200R023C10

Panel

Figure 7-10 Panel of the FAN-031A-B



1. Lock	2. Indicator	3. Airflow flag (air out)	4. Fan air vent	5. Handle
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Table 7-17 Indicators on the FAN-031A-B

Silkscreen	Name	Color	Status	Description
-	Fan status indicator	-	Off	The fan module is not running.
		Green	Steady on	The fan module is starting.
		Green	Slow blinking	The fan module is working properly.

Silkscreen	Name	Color	Status	Description
		Red	Steady on	The fan module has a hardware fault and must be replaced. Common causes include short circuits, fan blades blocked, and faults of the fan module.

Functions and Features

Table 7-18 Functions and features of the FAN-031A-B

Functions and Features	Description
Basic function	The fan module has only one fan to cool the chassis.
Hot swapping	Supported

Technical Specifications

Table 7-19 Technical specifications of the FAN-031A-B

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	40 mm x 40 mm x 100.3 mm (1.57 in. x 1.57 in. x 3.95 in.)
Weight without packaging [kg(lb)]	0.1 kg (0.22 lb)
Number of fans	1
Maximum power consumption [W]	21.6 W
Maximum heat dissipation [BTU/hour]	73.7 BTU/hour
Maximum fan speed [RPM]	24500 ± 10 %
Maximum airflow [CFM]	31 CFM
Airflow direction	Air exhausted from the panel side of the fan tray

7.6 FAN-031A-F (Fan box (F, FAN panel side intake))

Overview

Table 7-20 Basic information about the FAN-031A-F

Item	Details
Description	Fan box (F, FAN panel side intake)
Part Number	02352CAA
Model	FAN-031A-F

Appearance

Figure 7-11 Appearance of the FAN-031A-F



Version Mapping

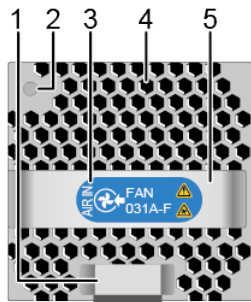
Table 7-21 Mappings between FAN-031A-F and product models

Product	Product Model	First Supported Version
S5731-H	S5731-H48T4XC-B (02353VAD)	V200R020C00
S5731-H	S5731-H48T4XC-B (02353VAD-003)	V200R020C10

Product	Product Model	First Supported Version
S5731-H	S5731-H48T4XC-B (02353VAD-005)	V200R021C10SPC600

Panel

Figure 7-12 Panel of the FAN-031A-F



1. Lock	2. Indicator	3. Airflow flag (air in)	4. Fan air vent	5. Handle
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Table 7-22 Indicators on the FAN-031A-F

Silkscreen	Name	Color	Status	Description
-	Fan status indicator	-	Off	The fan module is not running.
		Green	Steady on	The fan module is starting.
		Green	Slow blinking	The fan module is working properly.

Silkscreen	Name	Color	Status	Description
		Red	Steady on	The fan module has a hardware fault and must be replaced. Common causes include short circuits, fan blades blocked, and faults of the fan module.

Functions and Features

Table 7-23 Functions and features of the FAN-031A-F

Functions and Features	Description
Basic function	The fan module has only one fan to cool the chassis.
Hot swapping	Supported

Technical Specifications

Table 7-24 Technical specifications of the FAN-031A-F

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	40 mm x 40 mm x 100.3 mm (1.57 in. x 1.57 in. x 3.95 in.)
Weight without packaging [kg(lb)]	0.1 kg (0.22 lb)
Number of fans	1
Maximum power consumption [W]	21.6 W
Maximum heat dissipation [BTU/hour]	73.7 BTU/hour
Maximum fan speed [RPM]	24500 ± 10 %
Maximum airflow [CFM]	31 CFM
Airflow direction	Air exhausted from the panel side of the fan tray

7.7 FAN-060B-B (Fan box (B, FAN panel side exhaust))

Overview

Table 7-25 Basic information about the FAN-060B-B

Item	Details
Description	Fan box (B, FAN panel side exhaust)
Part Number	02350DNQ
Model	FAN-060B-B

Appearance

Figure 7-13 Appearance of the FAN-060B-B



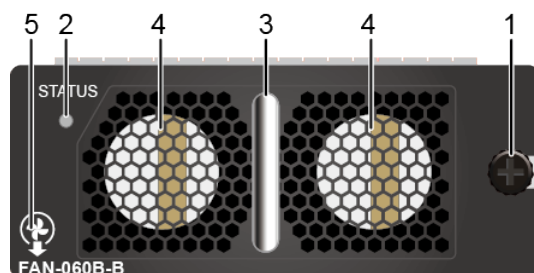
Version Mapping

Table 7-26 Mappings between FAN-060B-B and product models

Product	Product Model	First Supported Version
S5730-HI	S5730-60C-HI-48S (02351XFS)	V200R013C00

Panel

Figure 7-14 Panel of the FAN-060B-B



1. Captive screw	2. Indicator	3. Handle	4. Two fans	5. Airflow flag (air out)
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Table 7-27 Indicators on the FAN-060B-B

Silkscreen	Name	Color	Status	Description
STATUS	Fan status indicator	-	Off	The fan module is not running.
		Green	Slow blinking	The fan module is working properly.
		Red	Steady on	The fan module has a hardware fault and must be replaced.

Functions and Features

Table 7-28 Functions and features of the FAN-060B-B

Functions and Features	Description
Basic function	The fan module has two fans to cool the chassis.
Hot swapping	Supported

Technical Specifications

Table 7-29 Technical specifications of the FAN-060B-B

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	40 mm x 100 mm x 220 mm (1.57 in. x 3.94 in. x 8.66 in.)
Weight without packaging [kg(lb)]	0.4 kg (0.88 lb)
Number of fans	2
Maximum power consumption [W]	32.6 W
Maximum heat dissipation [BTU/hour]	111.23 BTU/hour
Maximum fan speed [RPM]	19000 ± 10 %
Maximum airflow [CFM]	64 CFM
Airflow direction	Air exhausted from the panel side of the fan tray