



# Cisco Catalyst 9400 Switch Datasheet



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## OVERVIEW

[Cisco Catalyst 9400](#) is the next generation of the industry's most widely deployed enterprise switching platform. These modular access switches are built for security, Internet of Things (IoT), and the cloud. They deliver state-of-the-art high availability, support up to 8 Tbps, and form one of the building blocks for SD-Access, Cisco's leading enterprise architecture. (Figure 1).

## APPEARANCE

[Figure 1. Cisco Catalyst 9400 Series Switches](#)

C9404R



C9407R



## C9410R



### CHASSIS FEATURES

Catalyst 9400 switches are modular switches, their chassis include these features:

**Table 1. [Cisco Catalyst 9400 Series](#) chassis features**

<b>Feature</b>	<b>Cisco Catalyst C9404R Chassis</b>	<b>Cisco Catalyst C9407R Chassis</b>	<b>Cisco Catalyst C9410R Chassis</b>
Total number of slots	4	7	10
Line-card slots	2	5	8
Supervisor engine slots	2 <sup>1</sup>	2 <sup>2</sup>	2 <sup>3</sup>
Dedicated supervisor engine slot numbers	2 and 3 <sup>4</sup>	3 and 4 <sup>4</sup>	5 and 6 <sup>4</sup>
Supervisor engine redundancy	Yes	Yes	Yes

Supervisor engines supported	C9400-SUP-1, C9400-SUP-1XL, C9400-SUP-1XL-Y	C9400-SUP-1, C9400-SUP-1XL, C9400-SUP-1XL-Y	C9400-SUP-1, C9400-SUP-1XL, C9400-SUP-1XL-Y
Maximum PoE per slot	2880W <sup>5</sup>	2880W <sup>5</sup>	2880W <sup>5</sup>
Maximum Bandwidth scalability per line-card slot	Up to 480 Gbps on all slots <sup>6</sup>	Up to 480 Gbps on all slots <sup>7</sup>	Up to 480 Gbps on all slots <sup>8</sup>
Number of power supply bays	4	8	8
AC input power	Yes	Yes	Yes
Integrated PoE	Yes	Yes	Yes
Power supplies supported	3200W AC, 2100W AC	3200W AC, 2100W AC	3200W AC, 2100W AC
Number of fan-tray bays	1	1	1
Location of 19-inch rack-mount	Front	Front	Front

<sup>1</sup>Slots 2 and 3 are reserved for supervisor engines only in Cisco Catalyst C9404R; slots 1 and 4 are reserved for line cards.

<sup>2</sup>Slots 3 and 4 are reserved for supervisor engines only in Cisco Catalyst C9407R; slots 1-2 and 5-7 are reserved for line cards.

<sup>3</sup>Slots 5 and 6 are reserved for supervisor engines only in Cisco Catalyst C9410R; slots 1-4 and 7-10 are reserved for line cards.

<sup>4</sup> Linecards are not supported in the Supervisor slots.

<sup>5</sup> Max PoE mentioned is as per the current shipping linecard, however chassis is capable ~4800W PoE per slot.

<sup>6</sup>80Gbps per line-card slot when used with C9400-SUP-1 and 240Gbps per line-card slot when used with C9400-SUP-1XL, C9400-SUP-1XL-Y.

<sup>7</sup>80Gbps per line-card slot when used with C9400-SUP-1 and 120Gbps per line-card slot when used with C9400-SUP-1XL, C9400-SUP-1XL-Y.

<sup>8</sup>80Gbps per line-card slot when used with C9400-SUP-1 and 80Gbps per line-card slot when used with C9400-SUP-1XL, C9400-SUP-1XL-Y

## SUPERVISOR CONFIGURATION

The Catalyst 9400 Series need to configure supervisor.

**Table 2. Cisco Catalyst 9400 Series supervisor engine maximum bandwidth per slot**

Feature	Cisco Catalyst 9400 Series Supervisor Engine C9400-SUP-1	Cisco Catalyst 9400 Series Supervisor Engine C9400-SUP-1XL	Cisco Catalyst 9400 Series Supervisor Engine C9400-SUP-1XL-Y
Cisco Catalyst C9404R chassis	80 Gbps/slot	240 Gbps/slot	240 Gbps/slot
Cisco Catalyst C9407R chassis	80 Gbps/slot	120 Gbps/slot	120 Gbps/slot
Cisco Catalyst C9410R chassis	80 Gbps/slot	80 Gbps/slot	80 Gbps/slot

## LINE CARD CONFIGURATION OPTIONS

**Table 3. Cisco Catalyst 9400 Series line cards**

Product Number	Description	Minimum Software Requirement
C9400-LC-48U	Cisco Catalyst 9400 Series 48-Port UPOE 10/100/1000 (RJ-45)	Cisco Open IOS-XE Software Release 16.6.1
C9400-LC-48T	Cisco Catalyst 9400 Series 48-Port 10/100/1000 (RJ-45)	Cisco Open IOS-XE Software Release 16.6.1
C9400-LC-48UX	Cisco Catalyst 9400 Series 48Port UPOE w/ 24p mGig 24p RJ-45	Cisco Open IOS-XE Software Release 16.6.2

<b>Product Number</b>	<b>Description</b>	<b>Minimum Software Requirement</b>
C9400-LC-24XS	Cisco Catalyst 9400 Series 24-Port 10 Gigabit Ethernet (SFP+)	Cisco Open IOS-XE Software Release 16.6.2
C9400-LC-48P	Cisco Catalyst 9400 Series 48-Port POE+ 10/100/1000 (RJ-45)	Cisco Open IOS-XE Software Release 16.8.1
C9400-LC-24S	Cisco Catalyst 9400 Series 24-Port Gigabit Ethernet(SFP)	Cisco Open IOS-XE Software Release 16.8.1
C9400-LC-48S	Cisco Catalyst 9400 Series 48-Port Gigabit Ethernet(SFP)	Cisco Open IOS-XE Software Release 16.8.1

## SPECIFICATIONS

**Table 4. Specifications of Catalyst 9400 Switches chassis**

<b>Specification</b>	<b>C9404R</b>	<b>C9407R</b>	<b>C9410R</b>
Dimensions (H x W x D)	10.47 x 17.30 x 16.30 in. (26.53 x 43.94 x 41.40 cm)	17.41 x 17.30 x 16.30 in. (44.22 x 43.94 x 41.40 cm)	22.61 x 17.30 x 16.30 in. (57.43 x 43.94 x 41.40 cm)
Rack Units (RU)	6 RU	10 RU	13 RU
Chassis weight (with fan tray)	39.0 lb (17.2 kg)	63.0 lb (28.58 kg)	65.0 lb (29.48 kg)
Mounting	19-in rack compatible (19-in. rack and cable guide hardware included)	19-in rack compatible (19-in. rack and cable guide hardware included)	19-in. rack compatible (19-in. rack and cable guide hardware included)

**Table 5. Specifications of Catalyst 9400 Switches power supply**

<b>Power Supply</b>	<b>3200W AC</b>	<b>2100W AC</b>
Integrated PoE	Yes	Yes
Input current (rated)	<ul style="list-style-type: none"> <li>• 16A at 100 VAC</li> <li>• 16A at 200 VAC</li> </ul>	<ul style="list-style-type: none"> <li>• 10.4A at 100 VAC</li> <li>• 10.4A at 200 VAC</li> </ul>
Input voltage	100 to 240 VAC ( $\pm 10\%$ for full range)	100 to 240 VAC ( $\pm 10\%$ for full range)
Output current (data)	<ul style="list-style-type: none"> <li>• 55V at 58.0A/28.36A (230/115VAC ranges)</li> <li>• 3.3V at 3.0A</li> </ul>	<ul style="list-style-type: none"> <li>• 55V at 38.21/17.09A (230/115VAC ranges)</li> <li>• 3.3V at 3.0A</li> </ul>
Output power (N+N) redundant mode (PoE + data)	$(3190W \times N)/2 + 10W$ (3.3V standby) for 230VAC range $(1560W \times N)/2 + 10W$ (3.3V standby) for 115VAC range N = number of power supplies (N>1)	$(2102W \times N)/2 + 10W$ (3.3V standby) for 230VAC range $(940W \times N)/2 + 10W$ (3.3V standby) for 115VAC range N = number of power supplies (N>1)
Output power (N+1) redundant mode (PoE + data)	$(3190W \times (N-1)) + 10W$ (3.3V standby) for 230VAC range $(1560W \times (N-1)) + 10W$ (3.3V standby) for 115VAC range N = number of power supplies (N>1)	$(2102W \times (N-1)) + 10W$ (3.3V standby) for 230VAC range $(940W \times (N-1)) + 10W$ (3.3V standby) for 115VAC range N = number of power supplies (N>1)
Output Power Combined mode (PoE + data)	$(3190W \times N) + 10W$ (3.3V standby) for 230VAC range	$(2102W \times N) + 10W$ (3.3V standby) for 230VAC range



<b>Power Supply</b>	<b>3200W AC</b>	<b>2100W AC</b>
	(1560W x N) + 10W (3.3V standby) for 115VAC range  N = number of power supplies (N>1)	(940W x N) + 10W (3.3V standby) for 115VAC range  N = number of power supplies (N>1)
Heat dissipation	950 BTU/hr x N  N = number of power supplies	460 BTU/hr x N  N = number of power supplies
Holdup time	20 ms	20 ms
Hot swappable	Yes	Yes
MTBF	300,000 hours	300,000 hours
Minimum Software Requirement	Cisco Open IOS-XE Software Release 16.6.1	Cisco Open IOS-XE Software Release 16.8.1

**GNTME.COM ORDERING INFORMATION**

**Table 6. Order these items via gntme.com.**

<b>SKU</b>	<b>Description</b>
<a href="#">C9404R</a>	Cisco Catalyst 9400 Series 4 slot chassis
<a href="#">C9407R</a>	Cisco Catalyst 9400 Series 7 slot chassis
<a href="#">C9407R=</a>	Cisco Catalyst 9400 Series 7 slot chassis Spare
<a href="#">C9410R</a>	Cisco Catalyst 9400 Series 10 slot chassis
<a href="#">C9410R=</a>	Cisco Catalyst 9400 Series 10 slot chassis
<a href="#">C9407R-96U-BNDL-A</a>	Catalyst 9400 Series 7 slot, Sup, 2xC9400-LC-48U, DNA-A LIC

<a href="#">C9407R-96U-BNDL-E</a>	Catalyst 9400 Series 7 slot, Sup, 2xC9400-LC-48U , DNA-E LIC
<a href="#">C9410R-96U-BNDL-A</a>	Catalyst 9400 Series 10 slot, Sup, 2xC9400-LC-48U, DNA-A LIC
<a href="#">C9410R-96U-BNDL-E</a>	Catalyst 9400 Series 10 slot, Sup, 2xC9400-LC-48U, DNA-E LIC
<a href="#">C9404R-48U-BNDL-A</a>	Catalyst 9400 Series 4 slot, Sup, 1xC9400-LC-48U, DNA-A LIC
<a href="#">C9404R-48U-BNDL-E</a>	Catalyst 9400 Series 4 slot, Sup, 1xC9400-LC-48U, DNA-E LIC
<a href="#">C9400-DNA-P-5Y</a>	C9400 DNA Premier 5 Year Term License
<a href="#">C9400-SUP-UPG-LIC=</a>	Catalyst 9400 Supervisor Software Upgrade Paper License
<a href="#">C9400-SUP-1XL-Y</a>	Cisco Catalyst 9400 Series Supervisor 1XL-Y with 25G Module
<a href="#">C9400-SUP-1XL-Y/2</a>	Cisco Catalyst 9400 Series Redundant Supervisor 1XL-Y with 25G Module
<a href="#">C9400-S-BLANK</a>	Cisco Catalyst 9400 Series Slot Blank Cover
<a href="#">C9400-SR-BLANK=</a>	Cisco Catalyst 9400 Series R Slot Blank Cover (Spare)
<a href="#">C9410-FAN=</a>	Cisco Catalyst 9400 Series 10 slot chassis Fan Tray
<a href="#">C9407-FAN=</a>	Cisco Catalyst 9400 Series 7 slot chassis Fan Tray
<a href="#">C9410-ACC-KIT=</a>	Cisco Catalyst 9400 Series 10 slot chassis Accessory Kit
<a href="#">C9407-ACC-KIT=</a>	Cisco Catalyst 9400 Series 7 slot chassis Accessory Kit
<a href="#">C9410-RACK-KIT=</a>	Cisco Catalyst 9400 Series 10 slot chassis Rack Mount
<a href="#">C9407-RACK-KIT=</a>	Cisco Catalyst 9400 Series 7 slot chassis Rack Mount
<a href="#">C9410-SHELF-KIT=</a>	Cisco Catalyst 9400 Series 10 slot chassis Shelf Install Kit

<a href="#">C9407-SHELF-KIT=</a>	Cisco Catalyst 9400 Series 7 slot chassis Shelf Install Kit
<a href="#">C9400-PWR-2100AC</a>	Cisco/Cisco Switches/Cisco Switch Catalyst 9400/Cisco Switch Catalyst 9400 Accessories
<a href="#">C9400-PWR-BLANK</a>	Cisco/Cisco Switches/Cisco Switch Catalyst 9400/Cisco Switch Catalyst 9400 Accessories
<a href="#">C9407-RACK-19-KIT=</a>	Cisco/Cisco Switches/Cisco Switch Catalyst 9400/Cisco Switch Catalyst 9400 Accessories
<a href="#">C9410-RACK-19-KIT=</a>	Cisco/Cisco Switches/Cisco Switch Catalyst 9400/Cisco Switch Catalyst 9400 Accessories

Note: Configure a Catalyst 9400 switch, you need order chassis, supervisor engine, linecards, power supplies, fan tray, and power cord. Welcome to [contact us](#) to quote.

## ADDITIONAL INFORMATION

[Guide to Upgrade Cisco Access and Backbone Switch](#)

[Cisco's New Switch Selection Decision 2018](#)

## WHERE TO BUY

**Want to buy this series of products? please contact:**

- Tel: +971 42409998 / +971 503823786
- Email: [sales@gntme.com](mailto:sales@gntme.com)

**Or visit:** [Cisco Catalyst 9400 Series Switches](#)

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