

Cisco Catalyst 6509-V-E Chassis

Product Overview

Cisco® introduces the Cisco Catalyst® 6509 Enhanced Vertical Chassis as part of the Cisco Catalyst 6500 Series of enhanced (E-Series) switches, delivering chassis with up to 1440 Gbps of system bandwidth capacity (80 Gbps/slot), enhanced cable management, and front-to-back airflow optimized for hot aisle/cold aisle designs in data center and service provider colocation (NEBS-L3 compliant) deployments.

Cisco Catalyst 6500 E-Series chassis provide superior investment protection by supporting multiple generations of products on the same chassis, lowering the total cost of ownership. The Cisco Catalyst 6509-V-E chassis (Figure 1) supports both the Cisco Catalyst 6500 Supervisor Engine 32 and the Cisco Catalyst 6500 Series Supervisor Engine 720 family of supervisor engines and associated LAN, WAN, and services modules.

Figure 1. Cisco Catalyst 6509-V-E Chassis



Applications

The versatile Cisco Catalyst 6509-V-E chassis is ideal for addressing high-performance applications with front-to-back airflow requirements in the following places in the network:

- Data center with hot aisle/cold aisle requirements and or cable management needs
- Service provider colocation equipment with front-to-back airflow requirements

Features and Benefits

Table 1 lists the Cisco Catalyst 6509-V-E chassis features and benefits.

Table 1. Features and Benefits

Feature	Benefit
Scalability	
9-Slot Modular Chassis	Allows flexibility and room for future growth
1440 Gbps of System Bandwidth Capacity and 80 Gbps/Slot	Scales the system capacity for future needs
High System Power Capacity	Scales to high-density 10 Gigabit Ethernet configurations of today and tomorrow
Increased Resiliency	
Redundant Fan Tray	Increases the availability of the system with redundant fan trays in addition to redundant fans in a fan tray
Standby Fabric Hot Sync	Decreases the supervisor engine switchover time of Supervisor Engine 720-based systems to 50 ms
Redundant Control Channel	Increases resiliency to protect against backplane control channel failures
Redundant Supervisor Engine Option	Increases availability with redundant supervisor engine options
Redundant Power Supply Option	Supports redundant power supplies for increased availability
Environmental	
Front-to-Back Airflow	Supports hot aisle/cold aisle design in modern data centers
Enhanced Cable Management Kit	Eases management of Category 5e, Category 6, and Category 6a and fiber cabling in a high-density configuration
AC and DC Power Supply	Supports both AC and DC power supply options
21 RU Chassis Height	Allows two Cisco Catalyst 6509-V-E chassis to be deployed in a standard 42 RU rack in a data center.
NEBS L3 Compliant	Supports NEBS L3 compliance for deployment in demanding environments

Product Specifications

Table 2 provides the product specifications for the Cisco Catalyst 6509-V-E chassis.

Table 2. Product Specifications

Number of Slots	9
Supervisor Compatibility	Cisco Catalyst 6500 Series Supervisor Engine 720 Cisco Catalyst 6500 Series Supervisor Engine 720-3B Cisco Catalyst 6500 Series Supervisor Engine 720-3BXL Cisco Catalyst 6500 Supervisor Engine 32 Cisco Catalyst 6500 Supervisor Engine 32 with PISA
Power Supply Compatibility	AC: 3000W, 4000W, 6000W, and 8700W DC: 2500W and 4000W
Module Compatibility	Any module based on the supervisor engine in the system
Software Compatibility	Cisco IOS® Software Release 12.2(18)SX10 and later
Reliability and Availability	Calculated MTBF: 225,000 hours
MIBS	Check the corresponding supervisor engine data sheet
Network Management	Check the corresponding supervisor engine data sheet
Physical Dimensions (HxWxD)	36.75 x 17.2 x 20.7 in. (93.3 x 43.1 x 53.3 cm) 21 RU
Weight	Chassis only: 121 lbs (54.9.x Kg) Single fan tray: 13.2 lbs (6 Kg)
Power	100 to 240VAC (4000WAC supplies require 30A input circuits) –48 to –60VDC

Industry Standard (NEBS/ETSI)	<ul style="list-style-type: none"> • GR-63-Core NEBS Level 3 (pending) • GR-1089-Core NEBS Level 3 (pending) • ETS 300 019 Storage Class 1.1 • ETS 300 019 Transportation Class 2.3 • ETS 300 019 Stationary Use Class 3.1
Electromagnetic Emission Compliance (EMC)	<ul style="list-style-type: none"> • FCC Part 15 (CFR 47) Class A • VCCI Class A • EN55022 Class A • CISPR 22 Class A • CE marking • AS/NZS 3548 Class A • ETS300 386 • EN55024 • EN61000-6-1 • EN50082-1
Safety	<ul style="list-style-type: none"> UL 60950 CSA-C22.2 No. 60950 EN 60950 IEC 60950 AS/NZS 60950/TS001
Operating Environment	<ul style="list-style-type: none"> Operating temperature: 32°F to 104°F (0 to 40°C) Storage temperature: -40 to 167°F (-40 to 75°C) Relative humidity: 5% to 95% percent, noncondensing Operating altitude: -500 to 6500 ft (1981 m)

Ordering Information

Table 3 lists the ordering information for the Cisco Catalyst 6509-V-E chassis. To place an order, visit the Cisco ordering homepage.

Table 3. Ordering Information

Product Name	Part Number
Cisco Catalyst 6509 Enhanced Vertical Chassis	WS-C6509-V-E
Cisco Catalyst 6509 Enhanced Vertical Chassis Fan Tray	WS-C6509-V-E-FAN
Cisco Catalyst 6509 Enhanced Vertical Chassis Cable Management Kit	WS-C6509-V-E-CM
Cisco Catalyst 6500 3000WAC Power Supply	WS-CAC-3000W
Cisco Catalyst 6500 6000WAC Power Supply	WS-CAC-6000W
Cisco Catalyst 6500 8700W Enhanced AC Power Supply	WS-CAC-8700W-E
Cisco Catalyst 6500 4000WAC Power Supply for US	WS-CAC-4000W-US
Cisco Catalyst 6500 4000WAC Power Supply for International	WS-CAC-4000W-INT
Cisco Catalyst 6500 2500WDC Power Supply	WS-CDC-2500W
Cisco Catalyst 6500 4000WDC Power Supply	PWR-4000-DC

For More Information

For more information about the Cisco Catalyst 6509-V-E chassis, visit <http://www.cisco.com/en/US/partner/products/hw/switches/ps708>.



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