

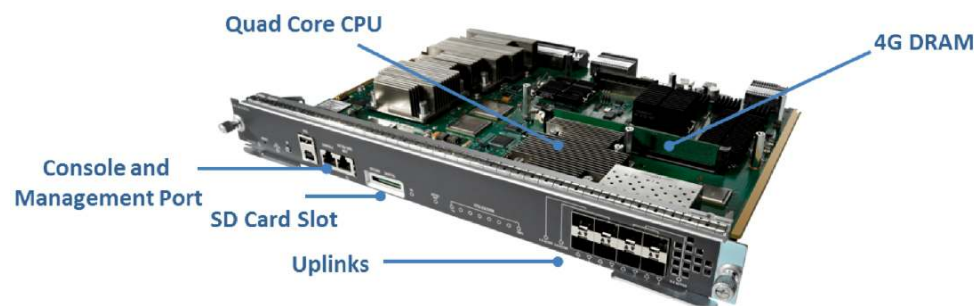
# Introducing Cisco Catalyst 4500E Supervisor Engine 8-E with Wired and Wireless Convergence

PB728329

## Overview

The new Cisco® Catalyst® 4500E Supervisor Engine 8-E (Figure 1) extends one policy, one management, one network to the world's most widely deployed modular access switch. This brings convergence of wired and wireless networks on a single platform while providing unprecedented investment protection. It ushers in a new converged architecture that is simple, resilient, and secure.

**Figure 1.** Cisco Catalyst 4500E Supervisor Engine 8-E



## Converged Wired and Wireless Access

The Cisco Catalyst 4500E Switch with Supervisor Engine 8-E is an extremely scalable and feature-rich modular access platform built to meet current and future network demand, including gigabit desktop and 802.11ac wireless:

- Built-in wireless controller with single software image for wired and wireless infrastructure
- Delivery of up to 928 Gbps system bandwidth and nonblocking 48 Gbps per slot
- Support for up to 20 G wireless throughput, 50 access points, and 2000 wireless clients on a single system and 250 access points and 4000 clients for multiswitch controllerless deployment
- Eight nonblocking 10 Gigabit Ethernet (Small Form-Factor Pluggable Plus [SFP+]) future-proofed uplinks with field-programmable gate array (FPGA) devices to support next-generation protocols
- Ability of 4500E chassis with Supervisor Engine 8-E to scale up to 384 Gigabit copper ports, 200 Gigabit fiber ports, or 104 10 Gigabit ports in non-VSS mode

## Infrastructure Services

- Maximum resiliency with redundant components, Nonstop Forwarding/Stateful Switchover (NSF/SSO), and Cisco In-Service Software Upgrade (ISSU) support
- Network virtualization through Multi-Virtual Route Forwarding (VRF) and Easy Virtual Networking (EVN) technology for Layer 3 segmentation
- Power over Ethernet Plus (PoE+; 30 W) and Cisco Universal PoE (UPOE; 60 W) capabilities on all line-card slots

## Investment Protection and Reduced Total Cost of Ownership

- Full backward compatibility with 6-, 24-, and 48-Gbps line cards with no performance degradation
- Compatibility with classic Cisco Catalyst 4500 line cards and power supplies, providing full investment protection

## Cisco Services

- Optimized application performance through deep visibility with flexible NetFlow (FNF), supporting rich Layer 2, 3, and 4 information (MAC, VLAN, and TCP flags) and synthetic traffic with IP service-level agreements
- Medianet capabilities for video quality of service (QoS), monitoring, and security

Table 1 provides ordering information.

**Table 1.** Ordering Information

Product Number	Description
<b>WS-X45-SUP8-E</b>	Cisco Catalyst 4500E Series Unified Access Supervisor, 928 Gbps
<b>WS-C4510RE-S8+96V+</b>	4510R+E Chassis, two WS-X4748-RJ-45V+E, Supervisor 8-E
<b>S845EU-33-1511XO</b>	Cisco Catalyst 4500 Supervisor Engine 8-E Cisco IOS® XE Software Release 3.3.0XO noncrypto universal image
<b>S845EUK9-33-1511XO</b>	Cisco Catalyst 4500 Supervisor Engine 8-E Cisco IOS XE Software Release 3.3.0XO crypto universal
<b>S845EULPE-33-1511XO</b>	Cisco Catalyst 4500 Supervisor Engine 8-E Cisco IOS XE Software Release 3.3.0XO universal LPE image
<b>C4500E-LB</b>	LAN BASE software license
<b>C4500E-IPB</b>	IP BASE software license
<b>C4500E-LIC=</b>	Base product ID for paper delivered software upgrade licenses
<b>C4500E-LB-IPB</b>	LAN BASE to IP BASE upgrade license (paper delivery)
<b>C4500E-LB-ES</b>	LAN BASE to Enterprise Services upgrade license (paper delivery)
<b>C4500E-IP-ES</b>	IP BASE to Enterprise Services upgrade license (paper delivery)
<b>C4500E-LIC-PAK</b>	Base product ID for paper delivered software licenses for spare Supervisor Engine 8-E
<b>C4500E-IP-ES-S</b>	IP BASE to Enterprise Services upgrade license for spare Supervisor Engine 8-E (paper delivery)
<b>C4500E-IPB-S</b>	IP BASE software license for spare Supervisor Engine 8-E (paper delivery)
<b>L-C4500-LIC=</b>	Base product ID for electronically delivered software upgrade licenses
<b>L-C4500E-LB-IP</b>	LAN BASE to IP BASE upgrade license (electronically delivered)
<b>L-C4500E-IP-ES</b>	IP BASE to Enterprise Services upgrade license (electronically delivered)
<b>L-C4500E-LB-ES</b>	LAN BASE to Enterprise Services upgrade license (electronically delivered)
<b>SD-X45-2GB-E</b>	Cisco Catalyst 4500 2 GB SD Memory Card for Supervisor 8-E

---

For additional information, visit:

- Cisco Catalyst 4500 Series homepage: <http://www.cisco.com/go/4500>
- Cisco Catalyst 4500 Series Supervisor Engine 8-E data sheet:  
[http://www.cisco.com/en/US/products/hw/switches/ps4324/products\\_data\\_sheets\\_list.html](http://www.cisco.com/en/US/products/hw/switches/ps4324/products_data_sheets_list.html)
- Cisco Catalyst 4500 Series Line Card data sheet:  
[http://www.cisco.com/en/US/prod/collateral/modules/ps2710/ps5494/product\\_data\\_sheet0900aecd802109ea\\_ps4324\\_Products\\_Data\\_Sheet.html](http://www.cisco.com/en/US/prod/collateral/modules/ps2710/ps5494/product_data_sheet0900aecd802109ea_ps4324_Products_Data_Sheet.html)
- Cisco Catalyst 4500 Series Chassis data sheet:  
[http://www.cisco.com/en/US/prod/collateral/switches/ps5718/ps4324/product\\_data\\_sheet0900aecd801792b1.html](http://www.cisco.com/en/US/prod/collateral/switches/ps5718/ps4324/product_data_sheet0900aecd801792b1.html)




---

Americas Headquarters  
Cisco Systems, Inc.  
San Jose, CA

Asia Pacific Headquarters  
Cisco Systems (USA) Pte. Ltd.  
Singapore

Europe Headquarters  
Cisco Systems International BV Amsterdam,  
The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at [www.cisco.com/go/offices](http://www.cisco.com/go/offices).

 Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: [www.cisco.com/go/trademarks](http://www.cisco.com/go/trademarks). Third party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)