

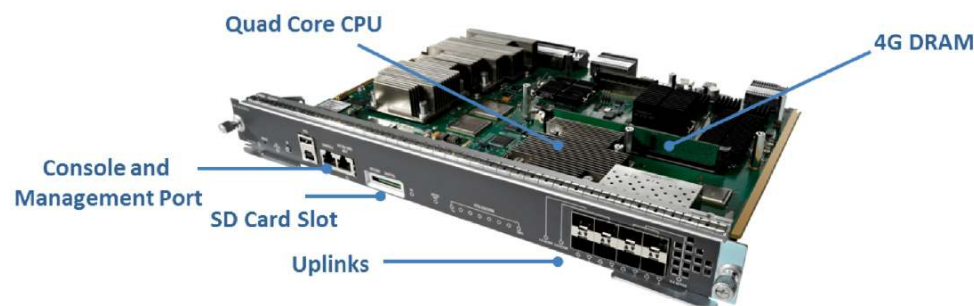
Introducing Cisco Catalyst 4500E Supervisor Engine 8-E with Wired and Wireless Convergence

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
WS-X45-SUP8-E	Cisco Catalyst 4500E Series Unified Access Supervisor, 928 Gbps
WS-C4510RE-S8+96V+	4510R+E Chassis, two WS-X4748-RJ-45V+E, Supervisor 8-E
S845EU-33-1511XO	Cisco Catalyst 4500 Supervisor Engine 8-E Cisco IOS® XE Software Release 3.3.0XO noncrypto universal image
S845EUK9-33-1511XO	Cisco Catalyst 4500 Supervisor Engine 8-E Cisco IOS XE Software Release 3.3.0XO crypto universal
S845EULPE-33-1511XO	Cisco Catalyst 4500 Supervisor Engine 8-E Cisco IOS XE Software Release 3.3.0XO universal LPE image
C4500E-LB	LAN BASE software license
C4500E-IPB	IP BASE software license
C4500E-LIC=	Base product ID for paper delivered software upgrade licenses
C4500E-LB-IPB	LAN BASE to IP BASE upgrade license (paper delivery)
C4500E-LB-ES	LAN BASE to Enterprise Services upgrade license (paper delivery)
C4500E-IP-ES	IP BASE to Enterprise Services upgrade license (paper delivery)
C4500E-LIC-PAK	Base product ID for paper delivered software licenses for spare Supervisor Engine 8-E
C4500E-IP-ES-S	IP BASE to Enterprise Services upgrade license for spare Supervisor Engine 8-E (paper delivery)
C4500E-IPB-S	IP BASE software license for spare Supervisor Engine 8-E (paper delivery)
L-C4500-LIC=	Base product ID for electronically delivered software upgrade licenses
L-C4500E-LB-IP	LAN BASE to IP BASE upgrade license (electronically delivered)
L-C4500E-IP-ES	IP BASE to Enterprise Services upgrade license (electronically delivered)
L-C4500E-LB-ES	LAN BASE to Enterprise Services upgrade license (electronically delivered)
SD-X45-2GB-E	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
- 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
- Cisco Catalyst 4500 Series Chassis data sheet:
http://www.cisco.com/en/US/prod/collateral/switches/ps5718/ps4324/product_data_sheet0900aecd801792b1.html



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