

CISCO CATALYST 6500 SUPERVISOR ENGINE 32

Cisco Systems® introduces the Cisco® Catalyst® 6500 Series Supervisor Engine 32, the next generation of supervisor engine for the Cisco Catalyst 6500 Series of modular switches targeted for the wiring closet. Supervisor Engine 32, with Policy Feature Card 3B (PFC3B), extends core innovations to the network edge. Based on the industry-leading Cisco Catalyst 6500 Series Supervisor Engine 720 technology, the Cisco Catalyst 6500 Series Supervisor Engine 32 allows customers to cost-effectively enable hardware-based security features, such as denial of service (DoS) mitigation to protect network application performance, and scalable support for multicast applications at the network edge.

PFC3B offers CPU rate limiters, hardware-based MAC learning, and user-based rate limiting. It limits threats from the Dynamic Host Configuration Protocol (DHCP) server, default gateway, or end-user IP address-spoofing using features such as DHCP Snooping, Dynamic Address Resolution Protocol (ARP) Inspection, and IP Source Guard. The supervisor engine allows close control over the end with which users can access the network and what privileges they are granted through identity-based networking with IEEE 802.1x, port-based security, and port-based access lists. These integrated security features are hardware based and can be enabled concurrently without compromising system performance as traffic levels increase.

ANNOUNCEMENT SUMMARY

- Introduction of the two versions of Cisco Catalyst 6500 Series Supervisor Engine 32.
 - Supervisor Engine 32 with 8 Gigabit Ethernet uplinks (shown in Figure 1)

Figure 1. Supervisor Engine 32 with 8 Gigabit Ethernet Uplinks



- Supervisor Engine 32 with two 10 Gigabit Ethernet uplinks (shown in Figure 2)

Figure 2. Supervisor Engine 32 with two 10 Gigabit Ethernet Uplinks



SPECIFICATIONS

Supervisor Engine 32 Highlights

Supervisor Engine 32 offers a robust feature set at a low cost entry point for the wiring closet. Because it comes standard with the PFC3B, Supervisor Engine 32 offers feature consistency with the Supervisor Engine 720. Supervisor Engine 32 comes in two versions: 8x1 Gigabit Ethernet (GE) Small Form-Factor Pluggable (SFP)-based ports or 2x10 GE XENPAK-based ports.

Supervisor Engine 32 requires the high-speed fan tray when operating in the Cisco Catalyst 6500 chassis. As such, a minimum of 2500W AC (in either 110V or 220V mode) or DC power supply is required for operation in a 6-, 9-, and 13-slot chassis. It requires a minimum of 950W in the 3-slot chassis. Supervisor Engine 32 also can operate in the E-Series chassis or a Cisco 7600 Series Router.

Supervisor Engine 32 can be installed in the same slots as Supervisor Engine 720:

- Slot 5 or 6 in 6-slot or 9-slot chassis
- Slot 7 or 8 in 13-slot chassis
- Slot 1 or 2 in 3-slot chassis

All classic line cards and all CEF 256 line cards (without a distributed forwarding card [DFC]) are supported at first customer shipment (FCS). Service modules and WAN cards will be supported post-FCS.

Product Numbers and Pricing

Table 1 gives product numbers and pricing information for the new Supervisor Engine 32.

Table 1. Product Numbers and Pricing

Product Number	Description
Supervisor Engine 32	
WS-SUP32-GE-3B	Cisco Catalyst 6500 Series Supervisor Engine 32 with 8 GE uplinks and PFC3B
WS-SUP32-10GE-3B	Cisco Catalyst 6500 Series Supervisor Engine 32 with 2 10 GE uplinks and PFC3B
Supervisor Engine 32 + Chassis Bundles*	
WS-C6503E-S32-GE	6503-E chassis + Supervisor Engine 32 (8 GE version) + fan tray
WS-C6506E-S32-GE	6506-E chassis + Supervisor Engine 32 (8 GE version) + fan tray
WS-C6509E-S32-GE	6509-E chassis + Supervisor Engine 32 (8 GE version) + fan tray
WS-C6513-S32-GE	6513 chassis + Supervisor Engine 32 (8 GE version) + fan tray
WS-C6503E-S32-10GE	6503-E chassis + Supervisor Engine 32 (10 GbE version) + fan tray
WS-C6506E-S32-10GE	6506-E chassis + Supervisor Engine 32 (10 GbE version) + fan tray
WS-C6509E-S32-10GE	6509-E chassis + Supervisor Engine 32 (10 GbE version) + fan tray
WS-C6513-S32-10GE	6513 chassis + Supervisor Engine 32 (10 GbE version) + fan tray

Product Number	Description
Memory Options for Supervisor Engine 32	
MEM-xCEF720-256M	Default memory on the Supervisor Engine 32 baseboard
MEM-xCEF720-512M	Upgrade option for the Supervisor Engine 32 baseboard
MEM-xCEF720-1GB	Upgrade option for the Supervisor Engine 32 baseboard
MEM-MSFC2-256MB	Default memory on Supervisor Engine 32 Multilayer Switch Feature Card (MSFC) 2A
MEM-MSFC2-512MB	Upgrade option for Supervisor Engine 32 MSFC2A
MEM-MSFC3-1GB	Upgrade option for Supervisor Engine 32 MSFC2A
MEM-C6K-CPTFL64M	External compact Flash memory 64 MB
MEM-C6K-CPTFL128M	External compact Flash memory 128 MB
MEM-C6K-CPTFL256M	External compact Flash memory 256 MB

* These bundles are eligible for purchase of Layer 2 SMARTnet® support

FCS SCHEDULES AND LEAD TIMES

Table 2. Orderability

Product Part Number	Date
WS-SUP32-GE-3B and WS-SUP32-GE-3B=	December 21, 2004
WS-SUP32-10GE-3B and WS-SUP32-10GE-3B=	July 1, 2005
SUP32-GE Bundles	December 21, 2004

Leadtime

- Five weeks
 - FCS for WS-SUP32-GE-3B, First week of January 2005

MINIMUM SOFTWARE REQUIREMENTS

Minimum software requirements for the new chassis are listed in Table 3.

Table 3. Minimum Software Requirements for New Chassis

Product Number	Software Release
WS-SUP32-GE-3B	<ul style="list-style-type: none">• Cisco Catalyst Operating System Release 8.4(1)• Hybrid MSFC2A release 12.2(17d)SXB7• Native Cisco IOS[®] support 2nd Half Calendar Year 2005
WS-SUP32-10GE-3B	<ul style="list-style-type: none">• Cisco Catalyst Operating System Release 8.4(4)• Hybrid MSFC2A release 12.2(17d)SXB7• Native Cisco IOS support 2nd Half Calendar Year 2005

FOR MORE INFORMATION

For more information about the Cisco Catalyst 6500 Series Supervisor Engine 32, go to:

http://www.cisco.com/en/US/products/hw/switches/ps708/products_data_sheet0900aecd801c5cab.html

CONTACT INFORMATION

If you have additional questions, contact the Catalyst 6500 Product Marketing team at ask-c6000-pm@cisco.com.

**Corporate Headquarters**

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters

Cisco Systems International BV
Haarlerbergpark
Haarlerbergweg 13-19
1101 CH Amsterdam
The Netherlands
www-europe.cisco.com
Tel: 31 0 20 357 1000
Fax: 31 0 20 357 1100

Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

Asia Pacific Headquarters

Cisco Systems, Inc.
168 Robinson Road
#28-01 Capital Tower
Singapore 068912
www.cisco.com
Tel: +65 6317 7777
Fax: +65 6317 7799

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on **the Cisco Website at www.cisco.com/go/offices.**

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia • Cyprus • Czech Republic Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia • Ireland • Israel • Italy • Japan • Korea Luxembourg • Malaysia • Mexico • The Netherlands • New Zealand • Norway • Peru • Philippines • Poland • Portugal • Puerto Rico • Romania • Russia Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa • Spain • Sweden • Switzerland • Taiwan • Thailand • Turkey • Ukraine United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

Copyright © 2005 Cisco Systems, Inc. All rights reserved. CCIP, CCSP, the Cisco *Powered* Network mark, Cisco Unity, Follow Me Browsing, FormShare, and StackWise are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn, and iQuick Study are service marks of Cisco Systems, Inc.; and Aironet, ASIST, BPX, Catalyst, CCDA, CCDP, CCIE, CCNA, CCNP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, the Cisco IOS logo, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Empowering the Internet Generation, Enterprise/Solver, EtherChannel, EtherSwitch, Fast Step, GigaStack, Internet Quotient, IOS, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, LightStream, Linksys, MeetingPlace, MGX, MICA, the Networkers logo, Networking Academy, Network Registrar, *Packet*, PIX, Post-Routing, Pre-Routing, RateMUX, Registrar, ScriptShare, SlideCast, SMARTnet, StrataView Plus, Stratm, SwitchProbe, TeleRouter, The Fastest Way to Increase Your Internet Quotient, TransPath, and VCO are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website 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. (0502R) 205309.BD_ETMG_CC_7.05

