



PRODUCT BULLETIN NO. 2597

ENHANCED CHASSIS FOR THE CISCO CATALYST 6500 SERIES AND THE SUPERVISOR ENGINE 720-3B

Cisco Systems® is introducing enhanced 3-, 6-, and 9-slot chassis for the Cisco® Catalyst® 6500 Series and the Supervisor Engine 720-3B.

The new 3-slot chassis (part number 6503-E) offers enhancements to support the Cisco Catalyst 67xx series line cards. The new 6- and 9-slot chassis (part numbers 6506-E and 6509-E) offer enhancements that increase the overall system power capacity for industry-leading power over Ethernet (PoE) port-density scalability. Continuing with the Cisco Catalyst 6500 tradition of unmatched investment protection, all existing supervisors, line cards, switch fabrics, and even software releases are supported in the new E-series chassis.

The Cisco Supervisor Engine 720-3B is a new member of the Cisco Supervisor Engine 720 Family with a modular policy feature card 3B (PFC3B) forwarding-engine daughter card as a default option. Highlights of this new supervisor engine include support for hardware-based Multiprotocol Label Switching (MPLS) and access-control-list (ACL) hit counters with 256,000 and 128,000 IPv4 and IPv6 route-table scalability.

ANNOUNCEMENT SUMMARY

- Introduction of enhanced 3-, 6-, and 9-slot chassis (part numbers 6503-E, 6506-E, and 6509-E)
- Introduction of Cisco Supervisor Engine 720-3B
- Introduction of increased default memory for the Cisco Supervisor Engine 2

NEW HARDWARE

- Cisco Catalyst 6503-E Chassis
- Cisco Catalyst 6503-E Fan Tray
- Cisco Catalyst 6506-E Chassis
- Cisco Catalyst 6506-E Fan Tray
- Cisco Catalyst 6509-E Chassis
- Cisco Catalyst 6509-E Fan Tray
- Cisco Supervisor Engine 720-3B

SPECIFICATIONS OF NEW CHASSIS

- The new chassis are similar to existing 3-, 6-, and 9- chassis, with full support for all existing supervisors, line cards, switch fabrics, and even software releases.
- The new chassis are backward-compatible with all existing software versions (details in the software requirements table). Future software releases will be available to enable new features, such as new power supplies.
- The 3-slot chassis supports CEF720 line cards such as the WS-6704-10GE, WS-6724-SFP, and WS-6748-SFP.

- The 6- and 9-slot chassis are designed to scale beyond 4000W power supply configurations. In the future they will support 6000W power supplies.
- The minimum power supply required is 2500W or higher (AC or DC) for the 6- and 9-slot chassis.

Table 1 gives the specifications of the new chassis.

Table 1. Chassis Specifications

Name	Cisco Catalyst 6503 Chassis	Cisco Catalyst 6503-E Chassis	Cisco Catalyst 6506 Chassis	Cisco Catalyst 6506-E Chassis	Cisco Catalyst 6509 Chassis	Cisco Catalyst 6509-E Chassis
Dimensions (H x W x D)	7.0 x 17.5 x 21.7 in. (17.9 x 44.5 x 55.1 cm)	7.0 x 17.5 x 21.7 in. (17.9 x 44.5 x 55.1 cm)	20.1 x 17.2 x 18.2 in. (51 x 43.7 x 46.2 cm)	19.2 x 17.5 x 18.2 in. (48.8 x 44.5 x 46.2 cm)	25.3 x 17.2 x 18.2 in. (64.3 x 43.7 x 46.2 cm)	24.5 x 17.5 x 18.2 in. (62.2 x 44.5 x 46.2 cm)
Weight (fully loaded)	75 lb (34 kg)	80 lb (36.4 kg)	153 lb (69.6 kg)	159 lb (72.3 kg)	184 lb (83.7 kg)	190 lb (86.4 kg)
Fan Trays	FAN-MOD-3 FAN-MOD-3HS	WS-C6503-E-FAN	WS-C6K-6SLOT-FAN WS-C6K-6SLOT-FAN2	WS-C6506-E-FAN	WS-C6K-9SLOT-FAN WS-C6K-9SLOT-FAN2	WS-C6509-E-FAN

The enhancement to the chassis helps enable increased power capacity and thereby scales the powered device density.

Table 2 compares the maximum number of PoE devices scaled between existing chassis and enhanced chassis (assumes one Cisco Supervisor Engine with PFC2, best-case module, and redundant power supply).

Table 2. Comparison of PoE Devices on Existing Chassis and Enhanced Chassis

Power Supply	Cisco Catalyst 6506	Cisco Catalyst 6506-E	Cisco Catalyst 6509	Cisco Catalyst 6509-E
4000W power supply	184	184	184	184
6000W power supply*	184	282**	184	279
9000W power supply*	184	310**	184	434**

* Product roadmap

** 96-port module

Check the power calculator to determine the maximum device support for different configurations.

SUPERVISOR ENGINE 720-3B HIGHLIGHTS

The Cisco Supervisor Engine 720-3B is a new member of the Cisco Supervisor Engine 720 Family that ships with PFC3B as the default daughter card. This new supervisor engine offers MPLS capabilities in hardware with route-table scalability up to 256,000 routes.

The Cisco Supervisor Engine 720-3B offers enhancements such as MPLS, including Ethernet over MPLS (EoMPLS), MAC-layer quality-of-service (QoS) enhancements, and ACL hit counters among other features.

PFC DAUGHTER CARD SPECIFICATIONS

Table 3 gives specifications of the daughter card.

Table 3. Specifications of Daughter Card

Feature	Cisco Supervisor Engine 720 (PFC3A)	Cisco Supervisor Engine 720-3B (PFC3B)	Cisco Supervisor Engine 720-3BXL (PFC3BXL)
Price	\$28,000	\$28,000	\$40,000
Memory	512 MB (on SP and RP)	512 MB (on SP and RP)	1 GB (on SP and RP)
MPLS Support	No	Yes	Yes
ACE (Access Control Entries) Counters	No	Yes	Yes
IP Routes	256,000 entries	256,000 entries	1 million entries
NetFlow Entries	128,000 entries	128,000 entries	256,000 entries

MEMORY DEFAULTS FOR CISCO SUPERVISOR ENGINES 2 AND 1A

The default memory on the Cisco Supervisor Engine 2 has changed as of August 1, 2004. Table 4 gives information about the changes.

Table 4. Default Memory for Cisco Supervisor Engine 2

Product Number	Supervisor Memory Before	Supervisor Memory Starting 8/1/04	Multilayer Switch Feature Card 2 (MSFC2) Memory Before	MSFC2 Memory Starting 8/1/04
WS-X6K-S2-PFC2 WS-X6K-S2-PFC2=	128 MB	256 MB	–	–
WS-X6K-S2-MSFC2 WS-X6K-S2-MSFC2=	128 MB	256 MB	128 MB	256 MB
WS-X6K-S2U-MSFC2 WS-X6K-S2U-MSFC2=	256 MB	256 MB	256 MB	512 MB

The default memory on the Cisco Supervisor Engine 1A has changed as of June 15, 2004. Table 5 gives information about the changes.

Table 5. Default Memory for Cisco Supervisor Engine 1A

Product Number	Supervisor Memory Before	Supervisor Memory Starting 6/15/04	Multilayer Switch Feature Card 2 (MSFC2) Memory Before	MSFC2 Memory Starting 6/15/04
WS-X6K-SUP1A-2GE WS-X6K-SUP1A-2GE=	64 MB	128 MB	–	–
WS-X6K-SUP1A-PFC WS-X6K-SUP1A-PFC=	64 MB	128 MB	–	–
WS-X6K-S1A-MSFC2 WS-X6K-S1A-MSFC2/2 WS-X6K-S1A-MSFC2=	64 MB	128 MB	64 MB	128 MB

PRODUCT NUMBERS AND PRICING

Table 6 gives product numbers and pricing information for the new chassis.

Table 6. Product Numbers and Pricing for New Chassis

Product Number	Price	Description
WS-C6509-E	\$ 9,500	Enhanced 9-slot chassis
WS-C6509-E-FAN	\$ 495	Fan tray for Cisco Catalyst 6509-E chassis
WS-C6506-E	\$ 5,500	Enhanced 6-slot chassis
WS-C6506-E-FAN	\$ 495	Fan tray for Cisco Catalyst 6506-E chassis
WS-C6503-E	\$ 2,500	Enhanced 3-slot chassis
WS-C6503-E-FAN	\$ 495	Fan tray for Cisco Catalyst 6503-E chassis
WS-SUP720-3B	\$ 28,000	Cisco Supervisor Engine 720-3B

FCS SCHEDULES AND LEADTIMES

- Orderability: August 16, 2004 for 6- and 9-slot enhanced chassis and Cisco Supervisor Engine 720-3B; September 4, 2004 for 3-slot enhanced chassis.
- Leadtimes: Three weeks for 3-, 6- and 9-slot enhanced chassis and 4 weeks for Cisco Supervisor Engine 720-3B.
- FCS for 3-slot enhanced chassis: First week of September 2004.

MINIMUM SOFTWARE REQUIREMENTS

Minimum software requirements for the new chassis are listed in Table 7.

Table 7. Minimum Software Requirements for New Chassis

Product Number	Software Release
WS-C6503-E	<ul style="list-style-type: none">• Cisco IOS® Software Release 7.4.2 and later• Cisco IOS Software Release 12.1(13)E and later• Cisco IOS Software Release 12.2(14)SX and later
WS-C6503-E-FAN	<ul style="list-style-type: none">• Cisco IOS Software Release 7.4.2 and later• Cisco IOS Software Release 12.1(13)E and later• Cisco IOS Software Release 12.2(14)SX and later
WS-C6506-E	<ul style="list-style-type: none">• Cisco IOS Software Release 6.3.6 and later• Cisco IOS Software Release 12.1(08)E and later• Cisco IOS Software Release 12.2(14)SX and later
WS-C6506-E-FAN	<ul style="list-style-type: none">• Cisco IOS Software Release 6.3.6 and later• Cisco IOS Software Release 12.1(08)E and later• Cisco IOS Software Release 12.2(14)SX and later
WS-C6509-E	<ul style="list-style-type: none">• Cisco IOS Software Release 6.3.6 and later• Cisco IOS Software Release 12.1(08)E and later• Cisco IOS Software Release 12.2(14)SX and later

Product Number	Software Release
WS-C6509-E-FAN	<ul style="list-style-type: none"> • Cisco IOS Software Release 6.3.6 and later • Cisco IOS Software Release 12.1(08)E and later • Cisco IOS Software Release 12.2(14)SX and later
WS-SUP720-3B	<ul style="list-style-type: none"> • Cisco IOS Software Release 12.2(17d)SXB and later • Cisco Catalyst Operating System Release 8.3(2)

FOR MORE INFORMATION

For more information about the Cisco Catalyst 6500 Series Switch, visit <http://www.cisco.com/en/US/products/hw/switches/ps708/index.html>.



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