

# Cisco Catalyst 6500-E Series 샤시

## 제품 개요

시스코는 시스템 대역폭 용량 초당 최대 2테라비트와 슬롯당 대역폭 80Gbps를 제공하는 Cisco® Catalyst® 6500 Enhanced Series 샤시(6500-E Series)를 출시했습니다. VSS를 위해 구성된 시스템에서 6500-E Series 샤시는 4Tbps의 시스템 용량을 지원합니다. Cisco® Catalyst® 6500 Enhanced Series 샤시는 초당 최대 4테라비트의 시스템 용량과 슬롯당 대역폭 80Gbps를 제공합니다. VSS를 위해 구성된 시스템에서 최대 8Tbps 시스템 대역폭을 제공합니다.

Cisco Catalyst 6500-E Series 스위치는 업계 최고의 성능과 고급 기능이 통합된 다양한 종류의 인터페이스 모듈을 제공합니다. 또한 높은 포트 밀도를 제공하고, 3-, 4-, 6-, 9, 9-Vertical(세로형)과 13슬롯 버전이 제공되어 다양한 구축 시나리오를 가진 고객에게 이상적입니다.

뿐만 아니라 동일한 샤시로 여러 세대의 제품을 지원할 수 있으므로 우수한 투자 보호 효과를 제공하며 총 소유 비용(TCO)을 줄여줍니다. Cisco Catalyst 6500-E Series 샤시(그림 1)는 Cisco Catalyst 6500 Supervisor Engine과 Cisco Catalyst 6500 Series Supervisor Engine 2T 그리고 이와 연결된 LAN, WAN, 서비스 모듈을 지원합니다.

그림 1. Cisco Catalyst 6500-E Series 샤시



## 적용 사례

다용도로 사용 가능한 Cisco Catalyst 6500-E Series 샤시는 네트워크의 모든 파트에서 고성능, 높은 포트 밀도, 패스트 이더넷, 기가비트 이더넷, 10 및 40기가비트 이더넷 도입에 이상적입니다. 6500-E Series는 기업 코어 및 집약 환경에 이상적으로 설계되었습니다. Cisco Catalyst 6500-E Series 샤시는 업계 최고를 자랑하는 10/100/1000 기가비트 이더넷, 10 및 40기가비트 이더넷 포트 밀도를 제공하고, 동시에 수준 높은 네트워크 안정성을 제공합니다.

## 기능 및 장점

표 1은 Cisco Catalyst 6500-E Series 사시의 주요 기능과 이점에 대해 설명합니다.

표 1. 주요 기능 및 이점

Feature	Benefit
<b>Scalability</b>	
3, 4, 6, 9, 9-V and 13-slot modular chassis	Allows flexibility and room for future growth
Delivers up to 2 terabits per second of system bandwidth capacity and 80 Gbps per-slot for all slots. A system configured for VSS has a system capacity of 4 terabits per second. Capable of delivering up to 4 terabits per second of system bandwidth and 180Gbps of per-slot bandwidth. A system configured for VSS will be capable of delivering up to 8 Tbps of system capacity.	Scales the system capacity for future needs
High interface capacity	Scales to high-density 40 Gigabit Ethernet, 10 Gigabit Ethernet and Gigabit Ethernet configurations
<b>Increased resiliency</b>	
Standby fabric hot sync	Decreases the supervisor engine switchover time of Supervisor Engine 720 and Supervisor Engine 2T based systems to between 50 and 200 ms, depending on the modules being used
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
Fan tray	Supports hot-swappable fan tray The 6509-V-E provides for redundant, hot-swappable fan trays
<b>Environmental</b>	
Side-to-side airflow (except Cisco Catalyst 6509-V-E)	Allows ease of access to ports and cables 6509-V-E has front-to-back air flow to support hot aisle or cold aisle designs
AC and DC power supply	Supports both AC and DC power supply options, including AC and DC mixing
Network Equipment Building Standards Layer 3 (NEBS L3) compliant	Supports NEBS L3 compliance for deployment in demanding environments

## 제품 사양

표 2는 Cisco Catalyst 6500-E Series 제품 사양입니다.

표 2. 제품 사양

	6503-E	6504-E	6506-E	6509-E	6509-V-E	6513-E
Number of Slots	3	4	6	9	9	13
Supervisor Compatibility	Cisco Catalyst 6500 Series Supervisor Engine 32 Cisco Catalyst 6500 Series Supervisor Engine 720-3B Cisco Catalyst 6500 Series Supervisor Engine 720-3BXL Cisco Catalyst 6500 Series Supervisor Engine 720-10G-3C Cisco Catalyst 6500 Series Supervisor Engine 720-10G-3CXL Cisco Catalyst 6500 Series Supervisor Engine 2T					
Power Supply Compatibility * Indicates EoS Power Supply	AC: 1400W, 950W* DC: 950W*	AC: 2700W DC: 2700W	AC: 2500W*, 3000W, 4000W, 6000W, 8700W DC: 2500W, 4000W, 6000W	AC: 2500W*, 3000W, 4000W, 6000W, 8700W DC: 2500W, 4000W, 6000W	AC: 2500W*, 3000W, 4000W, 6000W, 8700W DC: 2500W, 4000W, 6000W	AC: 3000W, 4000W, 6000W, 8700W DC: 2500W, 4000W, 6000W
Module Compatibility	All modules based on the software release in the system					

	6503-E	6504-E	6506-E	6509-E	6509-V-E	6513-E
<b>Software Compatibility (Minimum Software Version)</b>						
With Supervisor Engine 32	• 12.2(18)SXF	• 12.2(18)SXF	• 12.2(18)SXF	• 12.2(18)SXF	• 12.2(18)SXF10	• 12.2(33)SXI1 • 12.2(33)SXH2 • 12.2(18)SXF14
With Supervisor Engine 720	• 12.2(14)SX	• 12.2(18)SXE	• 12.2(14)SX	• 12.2(14)SX	• 12.2(18)SXF10	• 12.2(33)SXI1 • 12.2(33)SXH2 • 12.2(18)SXF14
With Supervisor Engine 720-10 GE	• 12.2(33)SXH	• 12.2(33)SXH	• 12.2(33)SXH	• 12.2(33)SXH	• 12.2(33)SXH	• 12.2(33)SXI1 • 12.2(33)SXH2
With Supervisor Engine 2T-10 GE	• 15.0(1)SY	• 15.0(1)SY	• 15.0(1)SY	• 15.0(1)SY	• 15.0(1)SY	• 15.0(1)SY
Reliability and Availability Calculated Mean Time Between Failure (MTBF)	860,868	677,643	441,418	348,935	330,888	311,778
MIBS	Check the corresponding supervisor engine 데이터 시트					
Network Management	Check the corresponding supervisor engine 데이터 시트					
<b>Physical Dimensions</b>						
Inches	7 x 17.37 x 21.75	8.75 x 17.5 x 21.75	19.2 x 17.5 x 18	24.5 x 17.5 x 18.2	36.75 x 17.2 x 20.7	33.3 x 17.3 x 18.1
Centimeters	17.8 x 44.1 x 55.2	22.2 x 44.45 x 55.25	48.8 x 44.5 x 46.0	62.2 x 44.5 x 46.0	93.3 x 43.1 x 53.3	84.6 x 43.9 x 46
Rack Units (RU)	4	5	12	15	21	20
<b>Weight</b>						
Chassis Only (lbs)	33	40	50	60	121	102
Fully Configured (lbs)	85.4	97	159	190	270	280
Input Voltage	100 to 240 VAC -48 to -60 VDC					
Safety	UL 60950 Second Edition CAN/CSA-C22.2 No. 60950 Second Edition EN 60950 Second Edition IEC 60950 Second Edition AS/NZS 60950					
EMC	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					
NEBS/ETSI	GR-1089-Core NEBS Level 3 ETS 300 019 Storage Class 1.1 ETS 300 019 Transportation Class 2.3 ETS 300 019 Stationary Use Class 3.1					

	6503-E	6504-E	6506-E	6509-E	6509-V-E	6513-E
ATIS Pb free and Energy Efficiency	ATIS-0600020.2010 Pb Free circuit packs ATIS-0600015-2009 General Energy Efficiency Requirements (TEER) ATIS-0600015.03-2009 Switch and Router Energy Efficiency ATIS-0600015.01-2009 Server Energy Efficiency VZ.TPR.9205 Verizon Energy Efficiency Requirements for Telecommunication Equipment (TEER)					
Operating Environment						
Operating Temperature	32F to 104F (0 to 40°C)					
Storage Temperature	-4 to 149F (-20 to 65°C)					
Thermal Transition	0.5°C per minute (hot to cold) 0.33°C per minute (cold to hot)					
Relative Humidity	Ambient (noncondensing) operating: 5% to 90% Ambient (noncondensing) nonoperating and storage: 5% to 95%					
Operating Altitude	Certified for operation: 0 to 6500 ft (0 to 2000 m) Designed and tested for operation: -200 to 10,000 ft (-60 to 3000 m)					

## 주문 정보

표 3은 Cisco Catalyst 6500-E Series 샤시의 주문 정보입니다. 주문을 하시려면 [시스코 주문 홈 페이지](#)를 이용하십시오.

표 3. 주문 정보

Product Name	Part Number
Cisco Catalyst 6503 Enhanced Chassis	WS-C6503-E
Cisco Catalyst 6503 Enhanced Chassis Spare	WS-C6503-E=
Cisco Catalyst 6503 Enhanced Chassis Fan Tray Spare	WS-C6503-E-FAN=
Cisco Catalyst 6504 Enhanced Chassis	WS-C6504-E
Cisco Catalyst 6504 Enhanced Chassis Spare	WS-C6504-E=
Cisco Catalyst 6504 Enhanced Chassis Fan Tray Spare	WS-C6504-E-FAN=
Cisco Catalyst 6506 Enhanced Chassis	WS-C6506-E
Cisco Catalyst 6506 Enhanced Chassis Spare	WS-C6506-E=
Cisco Catalyst 6506 Enhanced Chassis Fan Tray Spare	WS-C6506-E-FAN=
Cisco Catalyst 6509 Enhanced Chassis	WS-C6509-E
Cisco Catalyst 6509 Enhanced Chassis Spare	WS-C6509-E=
Cisco Catalyst 6509 Enhanced Chassis Fan Tray Spare	WS-C6509-E-FAN=
Cisco Catalyst 6509 Vertical Enhanced Chassis	WS-C6509-V-E
Cisco Catalyst 6509 Vertical Enhanced Chassis Spare	WS-C6509-V-E=
Cisco Catalyst 6509 Vertical Enhanced Chassis Fan Tray Spare	WS-C6509-V-E-FAN=
Cisco Catalyst 6513 Enhanced Chassis	WS-C6513-E
Cisco Catalyst 6513 Enhanced Chassis Spare	WS-C6513-E=
Cisco Catalyst 6513 Enhanced Chassis Fan Tray Spare	WS-C6513-E-FAN=
Cisco Catalyst 6500 1400 W AC Power Supply	PWR-1400-AC=
Cisco Catalyst 6500 2700W AC Power Supply	PWR-2700-AC/4=
Cisco Catalyst 6500 3000W AC Power Supply	WS-CAC-3000W=
Cisco Catalyst 6500 6000W AC Power Supply	WS-CAC-6000W=
Cisco Catalyst 6500 8700W Enhanced AC Power Supply	WS-CAC-8700W-E=
Cisco Catalyst 6500 4000W AC Power Supply for US	WS-CAC-4000W-US=

Product Name	Part Number
Cisco Catalyst 6500 4000W AC Power Supply for International	WS-CAC-4000W-INT=
Cisco Catalyst 6500 2500W DC Power Supply	WS-CDC-2500W=
Cisco Catalyst 6500 2700W DC Power Supply	PWR-2700-DC/4=
Cisco Catalyst 6500 4000W DC Power Supply	PWR-4000-DC=
Cisco Catalyst 6500 6000W DC Power Supply	PWR-6000-DC=

## 추가 정보

Cisco Catalyst 6500-E Series 사시에 대한 자세한 정보는 아래 웹 페이지를 참조하십시오.

<http://www.cisco.com/en/US/partner/products/hw/switches/ps708>



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