Cisco C1-C4503-E

Datasheet

Product Overview

- The Cisco Catalyst 4500 Series is engineered for enterprises needing scalable, high-performance network switching solutions.

- Targeted at mid-to-large organizations, educational institutions, and managed service providers seeking advanced campus or branch connectivity.

- This model delivers a centralized forwarding architecture, supports up to 10GE uplinks, and enables flexible PoE+/UPOE deployment for modern devices.

- Enhanced with features like supervisor engine redundancy, hot-swappable fans, and comprehensive software-based fault tolerance for maximum uptime.

- It allows for seamless network management, rapid roll-out, and superior long-term investment protection through cross-generational compatibility.

- Ideal for evolving networks, the C1-C4503-E boosts agility, security, and operational efficiency across distributed office and campus environments.

Product Highlights

- **Borderless Network Performance:** Delivers reliable, secure Layer 2-4 switching for high-speed mobile and data applications.

- **Centralized Forwarding Architecture:** Enables easy scaling, enhanced collaboration, and efficient virtualization with simplified operations.

- **Flexible PoE/UPOE Support:** Supports PoE+ and Universal PoE for powering diverse connected devices and future-proofing deployments.

- **Embedded Hardware & Software Resiliency:** Minimizes downtime with redundant supervisors, fans, and advanced fault-tolerant features.

Detailed Features

C1-C4503-E

Quote | Help

Component	Specification
Total Slots	3
Line-card Slots	2
Supervisor Engine Slots	1
Maximum PoE per Slot	1500W

Intelligent Edge Services

The Cisco Catalyst 4500E Series brings advanced services such as QoS, efficient traffic shaping, and security directly to the edge. Its rich set of control features ensures policies can be enforced close to users and devices, providing flexibility and responsiveness to dynamic business requirements while maintaining robust performance.

Scalable TCAM Resources

With up to 384,000 TCAM entries, this switch delivers consistent, high-capacity feature support. The TCAM architecture supports wire-speed routing and switching regardless of enabled security or quality features, allowing organizations to deploy advanced controls without sacrificing throughput or latency.

Flexible Chassis and Supervisor Options

The 4500E Series offers four different chassis and supervisor module options, scaling up to 388 ports. This modular approach ensures investment protection by supporting both new and existing line cards, allowing for phased upgrades and easy expansion as business needs evolve.

Nonstop Availability

High availability is delivered through dual supervisor engine capability, subsecond switchover, and full image in-service software upgrades (ISSUs). Nonstop forwarding with stateful switchover (NSF/SSO) keeps critical applications connected and running, even during outages or updates.

Comprehensive Management

Integrates with Cisco network management platforms to provide centralized monitoring, configuration, and troubleshooting. SNMP, CLI, and web-based access make it suitable for various operational environments, offering efficiency and visibility to IT teams managing distributed networks.

Resilient Architecture

Redundant fans, dual power supply options, and robust software-based fault tolerance safeguard uptime. Combined hardware and software resiliency mechanisms minimize network interruptions, maximizing workforce productivity and reducing downtime impact.

Investment Protection

Forward and backward compatibility across supervisor engines and line cards secures customer investments. The ability to reuse modules across generations enables scalable growth without extensive re-purchasing, aligning technology investments with long-term IT strategies.

Enterprise & Branch Scalability

Ideal for campus and branch deployments, the switch uses the proven Catalyst architecture to support evolving collaboration and VoIP needs. Its platform flexibility and performance provide enterprises with reliable, scalable options for expanding network workloads and user expectations.

Technical Specifications

Product Specifications

Feature	Value
Device Type	Switch
Enclosure Type	Rack-mountable 7U
Expansion Slots	3 (total) / 3 (free) x expansion slot
Installed Modules Qty (Max)	0 (installed) / 3 (max)
Power Device	Internal power supply - hot-plug
Installed Qty	0 (installed) / 2 (max)
Power Redundancy	Optional
Power Redundancy Scheme	1+1 (with optional power supply)
Rack Mounting Kit	Included
MTBF	1,064,279 hours

Feature	Value
Compliant Standards	NEBS level 3, FCC Class A certified, CISPR 22 Class A, EN 60950, EN 61000-3-2, EN55022, IEC 60950, EN 61000-3-3, EN55024, EN55022 Class A, UL 60950, EN50082-1, CSA 22.2 No. 60950, EN 61000-6-1, ACA TS001, AS/NZS 3260, FCC Part 68, AS/NZ 3548 Class A, JATE, ICES-003 Class A, CS-03, FCC CFR47 Part 15, VCCI Class A
Width	17.3 in
Depth	12.5 in
Height	12.2 in
Weight	32.19 lbs

Product Comparison

Feature	C1-C4503-E	C1-C4510RE-S7+96V+	C1-C4500X-16SFP+
Chassis Slots	3	10	1
Supervisor Engine Slots	1	2	1
Max Line-Card Slots	2	8	N/A
Maximum Ports	96 (with modules)	384 (with modules)	16x 10GE SFP+
Maximum PoE per Slot	1500W	Not specified	Not supported
Power Redundancy	Optional 1+1	1+1 Supervisor and power	Redundant power
Main Uplink Options	10GE uplinks	10GE/40GE uplinks	16x 10GE SFP+
Resiliency Features	Redundant fans, hot-swap PSU	Supervisor redundancy, full ISSU	Fixed, redundant PSU
Primary Application	Campus/branch core	Large campus core	Data center/core aggregation

Accessories

Category	Accessories
Included Accessories	- Power Adapter - Rack Mount Kit - Quick Installation Guide
Optional Accessories	- SFP Transceiver Modules - Spare Power Supply - Additional Line Cards

Support & Warranty

24/7 Online Service

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Professional Technical Support
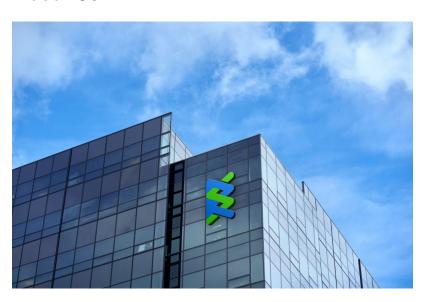
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References

[1] Cisco. (2023). Cisco Catalyst 4500 Series Switches Data Sheet. Retrieved from https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-4500-series-switches/product_data_sheet0900aecd801792b1.html