



Cisco C1-C4507R+E Datasheet

Product Overview

- Cisco Catalyst 4500 Series delivers high-performance, reliable switching for enterprise core and distribution environments.
- This platform is ideal for organizations needing secure, scalable networks to support mobile users, video, and advanced applications.
- The C1-C4507R+E offers a 7-slot modular chassis, up to 10 GE uplinks, and versatile PoE+/UPOE support for future-ready deployment.
- Critical features include integrated software and hardware resiliency, 1+1 supervisor redundancy, and flexible power configurations.
- Efficient centralized management and forward/backward compatibility help reduce TCO and simplify upgrades for growing networks.
- With robust performance and borderless scalability, the C1-C4507R+E is a trusted solution to ensure productivity and investment protection.

Product Highlights

- **High-Performance Switching:** Delivers enterprise-grade Layer 2-4 switching for seamless borderless network access across all users.
- **Flexible Chassis Options:** Supports four E-Series chassis with 24/48 Gbps per line-card slot, matching diverse deployment needs.
- **Integrated Resiliency:** Redundant supervisor engines, fans, and 1+1 power ensure always-on service and minimized network downtime.
- **Future-Proof Uplink and PoE:** 10 Gigabit Ethernet uplinks with PoE+/UPOE prepare networks for evolving application and device requirements.

Detailed Features



C1-C4507R+E

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Component	Specification
Form Factor	7-slot modular chassis
Rack Units (RU)	11RU
Supervisor Engine Slots	2 (Slots 3 & 4)



Intelligent Network Services

The C1-C4507R+E brings high-end intelligent services like advanced QoS, deterministic performance, and security to the network edge. Its comprehensive management features ensure easy monitoring, while built-in resiliency keeps critical services running for both users and IT teams.

Dedicated TCAM Resources

Built-in ternary content-addressable memory (TCAM) with up to 384,000 entries ensures high feature capacity. This hardware guarantees wire-speed routing and peace of mind, with no performance drops when activating advanced services such as QoS or security policies.

Common, Scalable Architecture

The 4500E Series offers a unified architecture across four chassis and supervisor engine choices. Organizations can expand up to 388 ports, delivering flexibility from branch to enterprise core without changing platforms or management tools.

High Availability Redundant Design

R+E chassis provide full 1+1 supervisor redundancy and subsecond failover, ensuring continuous service. Features such as In-Service Software Upgrades (ISSU) and Nonstop Forwarding (NSF/SSO) minimize disruption, ensuring voice and collaboration stay online during updates.

ISSU and NSF/SSO for Zero Downtime

The combination of ISSU and stateful switchover keeps forwarding uninterrupted, even during system or supervisor engine maintenance. This safeguards business-critical applications and continuous communication, meeting stringent uptime requirements.

Seamless Line Card Compatibility

The switch accepts both existing and new line cards from the 4000 and 4500 series, enabling smooth migration and protection of legacy hardware investments. This reduces upgrade costs and simplifies multi-phase deployment across sites.

Optimized for Collaboration and VoIP

NSF/SSO support strengthens voice and real-time collaboration reliability by providing instant failover. This design is ideal for regional headquarters, call centers, and verticals reliant on uninterrupted communications.

Affordable Scalability for Growth

With a commitment to cost-effectiveness, the C1-C4507R+E makes enterprise expansion straightforward. Flexible slot architecture, power, and supervisor options offer reliable scaling from SMB deployments to large campuses and metro rollouts.

Technical Specifications

Product Specifications

Feature	Value
Device Type	Switch
Enclosure Type	Rack-mountable 11U
Expansion Slots	7 (total) / 7 (free) x expansion slot
Installed Modules Qty (Max)	0 (installed) / 7 (max)
Power Device	Internal power supply - hot-plug
Installed Power Supply Qty	0 (installed) / 2 (max)
Power Redundancy	Optional
Power Redundancy Scheme	1+1 (with optional power supply)
Rack Mounting Kit	Included
MTBF	248,630 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	19.2 in
Weight	44.53 lbs
Countries we Sold	200+
Customers Trusted	18,000+
Inventory Available	\$20,000,000
Discount Range	50%-98% Off Global List Price
Safe Online Shopping	100%
Manufacturer Warranty	Limited warranty - advance hardware replacement - lifetime - response time: 10 days
Min Operating Temperature	32 °F
Max Operating Temperature	104 °F
Operating Humidity Range	10 - 90% (non-condensing)
Min Storage Temperature	-40 °F
Max Storage Temperature	167 °F

Product Comparison

Feature	C1-C4507R+E	C1-WS3650-48PD/K9	C1-WS3650-48TD/K9
Form Factor	7-slot modular chassis	Fixed, 1RU	Fixed, 1RU
Total Ports Supported	Up to 388	48	48
Supervisor Engine Slots	2 (Slots 3 & 4)	N/A	N/A
Line Card Slots	5 (Slots 1-2 & 5-7)	N/A	N/A
PoE / UPOE	Supported (PoE+/UPOE)	PoE+ (Full 48 ports)	No PoE



Feature	C1-C4507R+E	C1-WS3650-48PD/K9	C1-WS3650-48TD/K9
Redundant Power Support	Optional 1+1	Yes	Yes
Uplink Ports	10GE supported	4 x 10GE SFP+	4 x 10GE SFP+
Stacking Capability	Chassis modular with redundancy	StackWise, up to 9 units	StackWise, up to 9 units
Management	Centralized, modular	Web/CLI/SNMP	Web/CLI/SNMP
Dimensions (W x D x H)	17.3 in x 12.5 in x 19.2 in	17.5 in x 17.7 in x 1.73 in	17.5 in x 17.7 in x 1.73 in
Weight	44.53 lbs	~17 lbs	~17 lbs

Accessories

Category	Accessories
Included Accessories	- Rack Mounting Kit - Power Slot Blank - Documentation Set
Optional Accessories	- Supervisor Engine Module - SFP Transceiver - Redundant Power Supply



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References

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