



Cisco

C6807-XL-S6T-BUN

Datasheet



Product Overview

- The Cisco Catalyst 6807-XL Modular Switch is designed for next-generation enterprise networks demanding high scalability and performance.
- Ideal for deployment in campus core and aggregation layers, it is perfect for large enterprises, service providers, and organizations planning for network growth.
- This switch features up to 11.4 Tbps system bandwidth, supports up to 440 Gbps per slot, and is optimized for high-density 10GE and 40GE support.
- It offers advanced redundancy with dual supervisor engine support, 1+1 fans, and N+1 power supply redundancy for maximum uptime.
- Centralized management and investment protection enable easy upgrades from Catalyst 6500-E, streamlining network transitions and reducing operational risk.
- The C6807-XL ensures future-ready campus networks by delivering powerful performance, simplified management, and reliable uptime for business continuity.

Product Highlights

- **High-Performance Core Aggregation:** Delivers robust support for Gigabit and 10 Gigabit Ethernet in high-density deployment scenarios.
- **6500 Series DNA Compatibility:** Built on trusted Cisco Catalyst 6500 DNA, ensuring smooth software and feature continuity.
- **Compact and Expandable Chassis:** 10RU form factor is smaller yet features an extra slot compared to previous 6506-E models.
- **Flexible Supervisor Engine Support:** Supports Supervisor Engine 6T and 2T, enabling easy upgrades and scalable backbone deployment.

Detailed Features



C6807-XL-S6T-BUN

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Component	Specification
Chassis Type	7-slot modular switch
Form Factor	10RU



High-Density Chassis Design

The 7-slot modular chassis of the Catalyst 6807-XL maximizes port capacity while maintaining a compact 10RU footprint. It supports up to 440 Gbps of bandwidth per slot, ensuring businesses can scale port density without sacrificing rack space or performance. This makes it suitable for large-scale enterprises where every rack unit and port counts, offering future-proof expansion options and investment protection throughout evolving network demands.

Unmatched Bandwidth Performance

With up to 11.4 Tbps of system bandwidth capacity, and up to 22.8 Tbps in a VSS configuration, the Catalyst 6807-XL delivers exceptional throughput. Each slot can support up to 440 Gbps of bandwidth, accommodating the most demanding traffic loads in today's enterprise environments. This enables seamless support for growing numbers of devices and applications without compromising network responsiveness or reliability.

Flexible Module and Supervisor Compatibility

This switch supports the latest Supervisor Engine 6T and 2T as well as a comprehensive range of high-speed line cards and service modules. It ensures a smooth migration path from the Catalyst 6500-E Series, letting organizations upgrade incrementally and protecting hardware investments. The support for both new and legacy modules increases deployment flexibility and mitigates replacement costs.

High 10GE and 40GE Density

The 6807-XL is engineered for high-density 10 Gigabit Ethernet and is fully ready for 40 Gigabit Ethernet expansion. This prepares businesses for escalating traffic from cloud, IoT, and mobile device growth. It supports diverse high-performance card options, making it a solid platform for demanding aggregation and data center core scenarios, where ultra-fast connectivity is vital.

Resilient Redundancy Architecture

The Catalyst 6807-XL provides integrated 1+1 supervisor engine redundancy, redundant fan assemblies, and N+1 power supply redundancy. This robust system design ensures minimal network downtime and reliable performance, even during component swaps or maintenance. Enterprises benefit from uninterrupted application and service availability across business-critical operations.

Consistent Operating System and Features

Running the same Cisco IOS Software as the Catalyst 6500 series, the 6807-XL eliminates interoperability concerns and facilitates seamless feature parity. Network operators can leverage familiar management tools, commands, and policies, which streamlines change management and reduces learning overhead. This operational consistency accelerates onboarding and supports easier network scaling.

Comprehensive Network Management Tools

Network administrators benefit from advanced management, monitoring, and automation capabilities. The switch offers flexible CLI, SNMP, and web-based management options, optimizing both on-site and remote maintenance. Built-in support for major protocols and robust MIBs enhances integration into existing network infrastructure and simplifies long-term operations.

Future-Proof Investment and Scalability

With architectural support for both current and next-generation supervisor engines, modules, and service blades, the Catalyst 6807-XL shields enterprises from premature obsolescence. Its high-capacity, adaptable chassis is purpose-built for evolving networking demands, empowering organizations to scale efficiently and safely in response to continuous business growth.

Technical Specifications

Product Specifications

Feature	Value
Chassis Type	7-slot modular switch
Form Factor	10RU
Supervisor Engine	C6800-SUP6T-XL (bundled)
Supervisor Slots	2
Module Slots	5
Per-Slot Bandwidth	Up to 440 Gbps



Feature	Value
Power Supply	AC 3000W (supports up to 4 power supplies)
Input Voltage	AC: 100–240V / DC: -48V to -60V
Hot-Swappable Components	Supervisor engines, line cards, power supplies, fan tray
MTBF	Calculated (see Cisco documentation)
40G Module Compatibility	C6800-8P40G-XL
10G Module Compatibility	C6800-32P10G-XL, C6800-16P10G-XL, C6800-8P10G-XL, WS-X6908-10G-2TXL, WS-X6816-10G-2TXL, WS-X6848-SFP-2TXL, WS-X6824-SFP-2TXL, WS-X6848-TX-2TXL
Dimensions (HxWxD)	17.45 x 17.37 x 18.1 in (44.3 x 44.1 x 46 cm)
Operating Temperature	32°F to 104°F (0°C to 40°C)
Humidity	5% to 90%, non-condensing
Altitude (Certified)	0–6,500 ft (0–2,000 m)
Altitude (Tested)	-200 to 10,000 ft (-60 to 3,000 m)
Safety Standards	UL 60950, CAN/CSA-C22.2 No. 60950, EN 60950, IEC 60950, AS/NZS 60950
EMC Compliance	FCC Part 15 (Class A), VCCI Class A, EN55022 (Class A), CISPR 22 (Class A), CE Marking
Minimum Software Requirement	See supervisor engine datasheet
Network Management/MIBs	See supervisor engine datasheet

Product Comparison

Feature	C6807-XL-S6T-BUN	C1-C6816-X-LE	C9404R-48U-BNDL-E
Chassis Type	7-slot modular	16-slot modular	4-slot modular
Form Factor	10RU	13RU	7RU
Supervisor Engine	C6800-SUP6T-XL	C6816-X Supervisor	Supervisor 1/2/3E
Per-Slot Bandwidth	Up to 440 Gbps	Up to 800 Gbps	Up to 480 Gbps
Total System Bandwidth	Up to 11.4 Tbps	Up to 25.6 Tbps	Up to 7 Tbps
Module Support	Supervisor 6T/2T, legacy 6500-E modules	C6816-X, high-density 10/40/100GE cards	C9400X/XS modules



Feature	C6807-XL-S6T-BUN	C1-C6816-X-LE	C9404R-48U-BNDL-E
Power Supply	Up to 4× AC 3000W	Up to 5× AC/2400W	Up to 4× AC/3200W
Redundancy	1+1 supervisors, N+1 power, redundant fans	1+1 supervisors, redundant PSUs	Multiple supervisors, redundant PSUs and fans

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none">- AC Power Supply (3000W)- Fan Tray- Basic Module Blank Slot Covers
Optional Accessories	<ul style="list-style-type: none">- C6800-8P40G-XL 40GE Module- C6800-32P10G-XL 10GE Module- Additional Power Supply Units



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References

[1] Cisco Systems. (2014). Catalyst 6807-XL Switch Datasheet. Retrieved from <https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-6807-xl-switch/datasheet-c78-728229.html>