

Cisco
C6807-XL-S2T-BUN
Datasheet



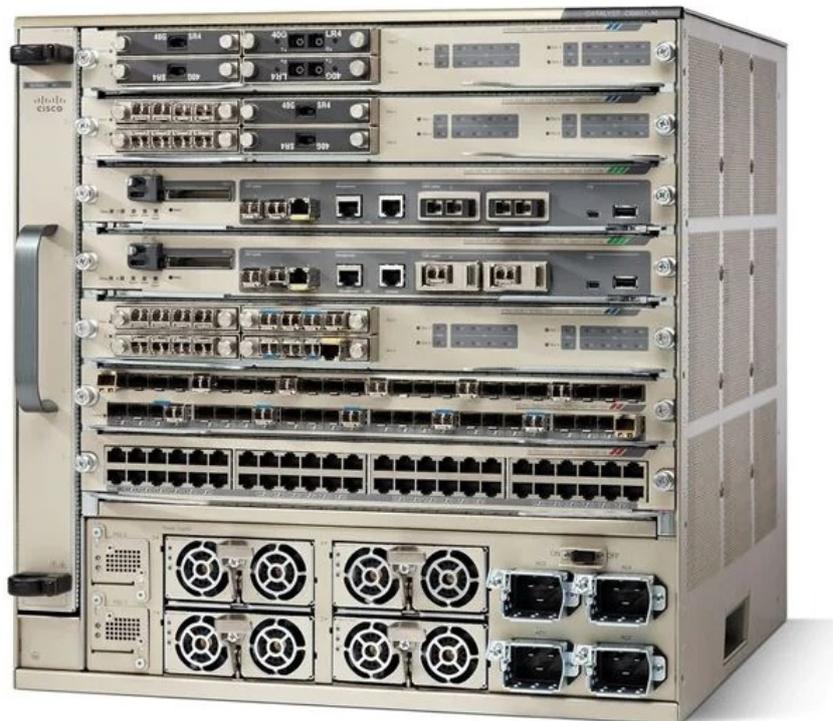
Product Overview

- The Cisco Catalyst 6807-XL Modular Switch is part of the trusted Cisco brand and is designed for next-generation campus networks.
- This modular switch targets enterprise network cores and aggregation areas, ideal for organizations scaling up their infrastructure.
- It features a 7-slot chassis, offers system bandwidth up to 11.4 Tbps, and delivers per-slot bandwidth up to 440 Gbps for intensive tasks.
- With support for 1+1 supervisor redundancy and N+1 power supply redundancy, the 6807-XL reduces downtime and boosts reliability.
- The platform brings strong management value through IOS parity with Catalyst 6500, making migrations and upgrades simple for IT teams.
- This modular switch ensures high performance and investment protection, supporting the growing traffic needs of large and evolving networks.

Product Highlights

- **High-Density Ethernet Support:** Provides industry-leading Gigabit Ethernet and 10 Gigabit Ethernet capabilities for fast campus connections.
- **6500 Series Compatibility:** Built on Cisco Catalyst 6500 DNA and runs the same Cisco IOS, ensuring seamless interoperability.
- **Ready for 40GE:** Fully supports 40 Gigabit Ethernet for future-proof network expansion and data-heavy workloads.
- **Space-Efficient Design:** 10RU chassis offers more slots than the 6506-E in a smaller footprint for flexible deployment.

Detailed Features



C6807-XL-S2T-BUN

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



Core Scalability

The Catalyst 6807-XL is engineered for campus core and aggregation networks, supporting large enterprise traffic and rapid scaling. With high slot capacity and robust performance, it ensures stable core operations as demands increase.

Superior Bandwidth Performance

This switch delivers up to 11.4 Tbps system bandwidth and 440 Gbps per slot. By supporting VSS, its total system capacity doubles to 22.8 Tbps, meeting the challenging requirements of modern data centers and large campuses.

Investment Protection

Backward support for Supervisor Engine 6T, Supervisor Engine 2T, legacy line cards, and modules secures your existing hardware investments. This extends lifecycle value and reduces migration costs during scaling or infrastructure refresh.

Modular Architecture

Flexible chassis allows users to choose modules for their current and future needs, with support for various 10G and 40G line cards. The modular approach facilitates incremental upgrades and long-term technology adoption without disruption.

Redundant Resiliency

Features 1+1 supervisor redundancy, redundant fans, and N+1 power supplies, reducing network downtime and boosting business continuity. This approach maximizes uptime and user productivity even during hardware failures.

Advanced Management

The shared IOS operating system with Catalyst 6500 Series offers unified management, simplifying deployments and operations. Network teams benefit from a familiar setup, reducing learning curves and operational errors.

High-Density Ethernet

The 6807-XL supports module options for both dense 10GE and emerging 40GE requirements, enabling organizations to deploy advanced networking without a complete system overhaul.

Efficient Upgrade Path

The compact 10RU design with an extra module slot versus 6506-E allows easy expansion with limited rack space. Upgrades to Supervisor Engine 6T and new modules require minimal effort, speeding up campus backbone evolution.

Technical Specifications

Product Specifications

Feature	Value
Chassis Type	7-slot modular switch
Form Factor	10RU
Supervisor Engine	Includes VS-S2T-10G-XL (bundled)
Supervisor Slots	2
Module Slots	5
Per-Slot Bandwidth	Up to 440 Gbps
Power Supply (AC)	3000W (supports up to 4 power supplies)
Input Voltage	AC: 100–240V / DC: -48V to -60V
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 (H × W × D)	Inches: 17.45 × 17.37 × 18.1 / Centimeters: 44.3 × 44.1 × 46



Feature	Value
Operating Temperature	32°F to 104°F (0°C to 40°C)
Humidity	5% to 90% non-condensing
Altitude (Certified/Tested)	Certified: 0–6,500 ft (0–2,000 m) / Tested: -200–10,000 ft (-60–3,000 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
Hot-Swappable Components	Supervisor Engines, Line Cards, Power Supplies, Fan Tray
MTBF	Calculated (refer to Cisco documentation)
Minimum Software Requirement	Check supervisor engine datasheet
Network Management / MIBs	Refer to supervisor engine datasheet

Product Comparison

Feature	C6807-XL-S2T-BUN	C1-N3K-C3172TQ	C9300-24P-A
Chassis Type	7-slot modular switch	Fixed 48 x 10GBASE-T + 6 x 40G QSFP+	Fixed 24 x 1G with PoE+ + 4 x 1G/10G SFP+
Form Factor	10RU	1RU	1RU
System Bandwidth Capacity	Up to 11.4 Tbps	1.28 Tbps	208 Gbps
Per-Slot Bandwidth	Up to 440 Gbps	N/A	N/A
Supervisor Engine	VS-S2T-10G-XL (bundled), redundant	N/A	N/A
Redundant Power	Supported (N+1)	Supported	Supported
Hot Swappable Components	Supervisor, Line Card, Power Supply, Fan	Power Supply, Fan	Power Supply, Fan
40G Support	C6800-8P40G-XL module	6 x 40G QSFP+	Not supported
10G Support	Multiple line cards	48 x 10GBASE-T	4 x 10G SFP+
Network OS	Cisco IOS	NX-OS	Cisco IOS XE



Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none">- Power Cords- Rack Mount Kit- Console Cable
Optional Accessories	<ul style="list-style-type: none">- 40G Line Card Modules- Supervisor Engine 6T- Additional Power Supply Units



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References

[1] Cisco Systems. (2023). Cisco Catalyst 6807-XL Modular Switch Datasheet. Retrieved from <https://www.cisco.com/c/en/us/products/collateral/switches/catalyst-6807-xl-switch/datasheet-c78-728229.html>