

Cisco C6807-XL

Datasheet

Product Overview

- The Cisco Catalyst 6807-XL is a modular switch platform designed to power the next generation of enterprise campus networks.
- It is ideal for enterprise core and aggregation, supporting global deployments in large businesses, academic, and service provider environments.
- The chassis delivers up to 11.4 Tbps of system bandwidth and up to 440 Gbps per-slot throughput, with support for high-density 10G and 40G Ethernet.
- Key features include robust supervisor engine redundancy, seamless module compatibility with the Catalyst 6500-E, and advanced power resiliency.
- Simplified operation is delivered through hot-swappable supervisor engines, fans, and power supplies for ensured uptime and easy management.
- For large campuses and data hubs, the C6807-XL combines scalability, resilience, and investment protection into an agile modular core and aggregation backbone.

Product Highlights

- **Enterprise-Ready Core Switching:** Ideal for campus core and aggregation, offering Gigabit and 10 Gigabit Ethernet at industry-leading performance.
- **Seamless DNA OS Consistency:** Runs Cisco IOS, providing feature parity and migration ease from Catalyst 6500-E platforms.
- **Compact High-Density Design:** 10RU chassis, smaller than previous 6-slot models, but with an extra module slot for superior scalability.
- **Future-Proof Expansion:** Supports Supervisor Engine 6T/2T and full module backward compatibility, simplifying upgrades and maximizing investments.

Detailed Features



C6807-XL

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Component	Specification
Supervisor Slots	2
Module Slots	5 (supports 40G/10G modules)



Modular Architecture for Core Scalability

The C6807-XLs 7-slot chassis is purpose-built for high-capacity aggregation and core deployments. It enables businesses to scale network infrastructure alongside organizational growth, supporting both high-density 10G and 40G Ethernet across all slots. The modular design facilitates flexible upgrades and investment longevity.

Industry-Leading Switching Capacity

Delivering up to 11.4 Tbps of switching capacity, with each slot supporting up to 440 Gbps, the switch confidently manages modern enterprise traffic volumes. In Virtual Switching System (VSS) mode, total bandwidth doubles for improved network resilience and seamless failover capability.

Resilient Redundancy and Failover

Integrated 1+1 supervisor redundancy, N+1 power supply support, and dual fan redundancy minimize the risk of downtime. These features enhance network uptime, reinforce business continuity, and protect productive operations in mission-critical environments.

Backward-Compatible Hardware Ecosystem

The C6807-XL enables direct migration from Catalyst 6500-E platforms. It preserves existing investments by supporting Supervisor Engine 6T, Supervisor Engine 2T, legacy line cards, and service modules, reducing total cost of ownership by protecting hardware value and operational familiarity.

Smaller Footprint, Greater Expansion

At just 10 rack units high, the switch occupies less space than the 6506-E yet adds one more line card slot. It combines compactness with expanded module support, increasing port density and network design flexibility for demanding campus and data center cores.

Unified IOS Operation

Running the same Cisco IOS Software as predecessor switches, the 6807-XL delivers uniform feature sets, policy controls, and network protocols. This supports smoother transitions, lowers training needs, and simplifies ongoing network management.

Advanced Module Compatibility

Full support for multiple 10G and 40G line cards, plus legacy Catalyst 6500 modules, provides deployment options for every traffic and capacity scenario. Businesses gain the flexibility to mix module generations and application-specific service blades as required.

Efficient Deployment & Simplified Upgrades

Hot-swappable supervisor engines, power supplies, and fan trays allow for minimal-interruption maintenance and scalable hardware expansion. CLI-based management and a modular OS further streamline integration into existing Cisco environments.

Technical Specifications

Product Specifications

Feature	Value
Chassis Type	7-slot modular switch
Form Factor	10RU
Supervisor Slots	2 (supports C6800-SUP6T, C6800-SUP6T-XL, VS-S2T-10G, VS-S2T-10G-XL)
Module Slots	5 (supports 40G/10G modules)
Per-Slot Bandwidth	Up to 440 Gbps
System Bandwidth	Up to 11.4 Tbps
VSS System Capacity	Up to 22.8 Tbps
Power Supply	AC 3000W (supports up to 4 power supplies)
40G Module Compatibility	C6800-8P40G, C6800-8P40G-XL



Feature	Value
10G Module Compatibility	C6800-32P10G, C6800-32P10G-XL, C6800-16P10G, C6800-16P10G-XL, C6800-8P10G, C6800-8P10G-XL, WS-X6908-10G-2T, WS-X6908-10G-2TXL, WS-X6816-10G-2T, WS-X6816-10G-2TXL, WS-X6848-SFP-2T, WS-X6848-SFP-2TXL, WS-X6824-SFP-2T, WS-X6824-SFP-2TXL, WS-X6848-TX-2T, WS-X6848-TX-2TXL
Legacy Module Compatibility	WS-X6704-10GE, WS-X6748-GE-TX, WS-X6748-SFP, WS-X6724-SFP, WS-X6716-10G-3C, WS-X6716-10G-3CXL, WS-X6716-10T-3C, WS-X6716-10T-3CXL (with CFC/DFC4)
Hot-Swappable Components	Supervisor engines, line cards, power supplies, fan tray
MTBF	Calculated (refer to Cisco documentation)
Physical Dimensions	17.45 × 17.37 × 18.1 in (44.3 × 44.1 × 46 cm)
Input Voltage	AC 100–240V; DC -48 to -60V
Operating Temperature Min	32°F (0°C)
Operating Temperature Max	104°F (40°C)
Operating Humidity Range	5% to 90% (non-condensing)
Altitude Certified	0–6,500 ft (0–2,000 m)
Altitude 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

Product Comparison

Feature	C6807-XL	C9500-24Q-E	C9500-40X-A
Chassis Slots	7	Fixed (1U)	Fixed (1U)
Supervisor Modules	2 (hot swappable, redundant)	Not applicable	Not applicable
Switching Capacity	Up to 11.4 Tbps	2.4 Tbps	2.4 Tbps
Per-Slot Bandwidth	Up to 440 Gbps	N/A	N/A
Module Slots	5 (40G/10G support)	24 x 40G QSFP+	40 x 10G/1G SFP+



Feature	C6807-XL	C9500-24Q-E	C9500-40X-A
Redundant Power	Up to 4x 3000W AC PSUs	2 x 1500W AC PSUs	2 x 1500W AC PSUs
Hot-swap Fans/PSU	Supported	Supported	Supported
Backward Module Support	Supports Catalyst 6500 line cards	No	No
Layer 3 Routing	Full Cisco IOS, advanced enterprise routing	Full Cisco IOS XE	Full Cisco IOS XE
Chassis Height	10RU	1RU	1RU
Application Scenario	Large campus core, aggregation	Aggregation/core, compact	Aggregation/core, compact

Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> - Power Cable - Mounting Kit - Documentation Set
Optional Accessories	<ul style="list-style-type: none"> - Supervisor Engine 6T Module - 40G Line Card - Spare Fan Tray



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References

[1] Cisco Systems. (2023). Cisco 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>