



Cisco

C1-C6807XL-S2T-BUN

Datasheet



Product Overview

- Cisco’s Catalyst 6800 series sets the benchmark for modular switching in scalable and resilient enterprise networks.
- The Catalyst 6807-XL targets the core and aggregation layers in large campuses and data centers, supporting enterprises and service providers.
- Key hardware includes up to 11.4 Tbps bandwidth, 440 Gbps per-slot capacity, and support for the latest Supervisor Engine modules.
- Integrated 1+1 supervisor, redundant fans, and N+1 power supply options reduce downtime and maximize system reliability.
- Comprehensive management ensures simple deployment and flexible migration from Catalyst 6500-E, facilitating seamless upgrades.
- The 6807-XL delivers scalable networking for modern businesses, protecting your investment against future bandwidth growth.

Product Highlights

- **High-Density Core & Aggregation:** Designed for enterprise core environments, offering Gigabit, 10GE, and supporting 40GE for high traffic needs.
- **Proven System Compatibility:** Built upon the Catalyst 6500 DNA, ensuring reliable performance and familiar Cisco IOS® management.
- **Compact, Flexible Chassis:** 10RU size adds an extra slot versus previous models, saving rack space while enhancing scalability.
- **Seamless Upgrade Path:** Full support for Supervisor Engine 6T/2T and line cards, simplifying core upgrades and safeguarding investments.

Detailed Features



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Component	Specification
Number of Slots	7
Rack Units (RU)	10



High System Scalability

The Catalyst 6807-XL handles up to 11.4 terabits per second of system bandwidth and 440 Gbps per-slot capacity, enabling networks to expand in line with growing data and user demands. VSS configuration allows for a system bandwidth of up to 22.8 Tbps for scalability.

Robust Interface Density

Supports high-density Gigabit and 10 Gigabit Ethernet, with readiness for 40 Gigabit Ethernet, making the switch ideal for core aggregation and high-traffic campus environments. The architecture ensures sustained high throughput at every slot and line card.

Superior Network Resiliency

Featuring standby fabric hot sync, the switch decreases supervisor switchover times to between 50 and 200 ms. Redundant control channels and supervisor engine options increase reliability, protecting against hardware or backplane failures.

Power and Cooling Redundance

N+1 power supply redundancy secures higher availability. Hot-swappable fan trays with variable speed fans maintain optimal cooling even with individual fan failures, sustaining performance and prolonging hardware lifespan.

Flexible Growth with AC Power

Up to 4 AC power supplies are supported, scalable incrementally as requirements evolve. Flexible voltage input (110V/220V) allows easy deployment across global standards, fitting diverse power environments.

Investment Protection

The architecture aligns with previous Catalyst 6500-E chassis, supporting existing supervisor engines, line cards, and service modules. This extends prior investments and ensures minimal disruption during migration or expansion.

Operational Efficiency

Side-to-side airflow matches 6500 Series designs, facilitating rapid upgrades without changing rack layout. Online Insertion and Removal (OIR) for key components, including supervisor engines and line cards, minimizes service outages.

Environmentally Ready Design

Engineered for demanding environments, operating from 0 to 40°C and up to 2000 meters altitude. EMC and safety certifications provide assurance for reliable operation in diverse global installations.

Technical Specifications

Product Specifications

Feature	Value
Number of Slots	7
Number of Supervisor Engine Slots	2
Number of Module Slots	5
Supervisor Compatibility	C6800-SUP6T, C6800-SUP6T-XL, VS-S2T-10G, VS-S2T-10G-XL
Chassis Bandwidth	Up to 440 Gbps per slot
System Bandwidth Capacity	Up to 11.4 Tbps; 22.8 Tbps with VSS
Power Supply Compatibility	AC: 3000W (up to 4 power supplies)
Reliability and Availability	Online Insertion and Removal (OIR) of supervisor engines, line card modules, power supplies, and fan tray
MIBs	Check the supervisor engine data sheet
Network Management	Check the supervisor engine data sheet
Physical Dimensions (H x W x D)	Inches: 17.45 x 17.37 x 18.1; Centimeters: 44.3 x 44.1 x 46



Feature	Value
Rack units (RU)	10
Weight Chassis Only (lbs)	62
Weight Fully Configured (lbs)	185
Input Voltage	100 to 240 VAC, -48 to -60 VDC
Safety	UL 60950 Second Edition, CAN/CSA-C22.2 No. 60950 Second Edition, EN 60950 Second Edition, IEC 60950 Second Edition, AS/NZS 60950
EMC	ETSI
Operating Temperature	32°F to 104°F (0 to 40°C)
Storage Temperature	-4 to 149°F (-20 to 65°C)
Thermal Transition	0.5°C per minute (hot to cold); 0.33°C per minute (cold to hot)
Relative Humidity (Op.)	5% to 90% (noncondensing)
Relative Humidity (Non-op.)	5% to 95% (noncondensing)
Operating Altitude	Certified: 0 to 6500 ft (0 to 2000 m); Designed: -200 to 10,000 ft (-60 to 3000 m)
EMI/EMC Compliance	FCC Part 15 (CFR 47) Class A, VCCI Class A, EN55022 Class A, CISPR 22 Class A, CE Marking, AS/NZS 3548 Class A, ETS300 386
Immunity	EN55024, EN61000-6-1, EN50082-1
Environmental	ETS 300 019 Storage Class 1.1, Transportation Class 2.3, Stationary Use Class 3.1

Product Comparison

Feature	C1-C6807XL-S2T-BUN	C1-N9K-C93108-B18Q	C1-N3K-C3548X
Switching Capacity	Up to 11.4 Tbps (22.8 Tbps with VSS)	2.16 Tbps	1.28 Tbps
Slots (Total/ Sup/ Modules)	7 (2/5)	N/A (Fixed)	N/A (Fixed)
Supervisor Engines	Supported (6T/2T)	N/A	N/A
Ethernet Port Density	Modular, high-density 1G/10G/40G	48 × 10/25G SFP28 + 6 × 100G QSFP28	48 × 10G SFP+ + 4 × 40G QSFP+
Redundant Power/Fans	Yes (N+1, hot-swap)	Yes	Yes



Feature	C1-C6807XL-S2T-BUN	C1-N9K-C93108-B18Q	C1-N3K-C3548X
Layer 3 Routing	Yes	Yes	Yes
Chassis Size	10RU	1RU	1RU
Online Insertion & Removal	Supported	Not supported	Not supported
Management	Cisco IOS®	NX-OS	NX-OS
Best Fit	Enterprise core/aggregation	Cloud-scale data centers	Access/aggregation, top-of-rack

Accessories

Category	Accessories
Included Accessories	- AC Power Supply Module - Rack Mount Kit - Console Cable
Optional Accessories	- Supervisor Engine 6T Module - 40GE Line Card Module - Spare Fan Tray



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