



Cisco

C1-N7706-B26S2E

Datasheet

Product Overview

- The Cisco Nexus 7000 Series offers a core network switching solution for agile enterprise data centers and large-scale IT infrastructure.
- Built for mission-critical environments, it addresses the needs of financial institutions, telecom operators, and large service providers.
- With more than 83 Tbps system switching capacity, the Nexus 7700 supports up to 768 × 10G, 384 × 40G, or 192 × 100G Ethernet ports.
- Consistent architecture across the Nexus 7000 Series enables common operations with shared ASIC technology and uniform NX-OS software.
- Centralized management, advanced virtualization, and robust reliability features streamline deployment and ensure stable data center performance.
- Deployed in diverse industries, the Nexus 7700 enables digital transformation by delivering scalable, reliable, and high-performance switching.

Product Highlights

- **High Port Density and Flexibility:** Up to 192 x 10G, 96 x 40G, and 48 x 100G ports, ideal for small to medium data center deployments in a compact 9RU chassis.
- **Efficient Cooling Architecture:** Front-to-back airflow with three fan trays and optional air filters ensures NEBS compliance and cools the system effectively.
- **Redundant Design and Hitless Upgrade:** Dual supervisors enable full redundancy, stateful failover, and in-service software upgrades without downtime.
- **Flexible Power Options and Easy Maintenance:** Supports up to four power supplies; all modules are front/rear accessible for seamless operation and hot swapping.

Detailed Features



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Component	Specification
Rack Space	9RU
Module Slots	2 supervisors + 4 I/O modules
Fabric Module Slots	6



Versatile Modular Chassis Options

Cisco Nexus 7000 Series is available in four chassis forms, supporting up to 18 module slots and offering flexible airflow and integrated cable management for diverse deployment requirements. Each chassis is designed for easy module access and efficient rack utilization.

Robust Passive Midplane Architecture

Every Nexus 7000 chassis uses a passive midplane that physically connects fabric and I/O modules, enabling direct data transfer and reducing signal loss. The architecture delivers greater reliability and reduces maintenance downtime.

High-Performance Distributed Fabric

Combining up to five fabric modules with the chassis midplane, the Nexus 7000 supports per-slot throughput up to 550 Gbps for high overall system capacity. This allows 8.8 Tbps to 18.7 Tbps capacity depending on chassis size, ideal for data centers scaling needs.

Future-Proof Technology Upgrades

The midplane and backplane design across chassis models allow technology updates or expansion without major hardware replacement, protecting long-term IT investments and supporting business growth.

Energy-Efficient Power System

Nexus 7000 uses power supplies rated up to 90% efficiency, which reduces heat and waste while providing more usable power for system operation. This saves on both utility and cooling costs in large deployments.

Adaptive Cooling Management

Intelligent fan modules automatically adjust speed and power based on system temperature changes and slot usage. In the 9-slot chassis, selective fan shutdown when slots are inactive further optimizes energy use.

Integrated Virtualization and Reliability

The Nexus 7000's high density, device virtualization, and nonstop operation features allow for switch consolidation. This boosts efficiency, reduces wasted energy, and enhances overall system uptime in highly available networks.

Comprehensive IPv6 and Layer 3 Support

Offering advanced support for IPv6, BGP, OSPF, IS-IS, and device migration features, the Nexus 7000 ensures seamless integration into hybrid IP networks. It guarantees readiness for evolving enterprise and service provider requirements.

Technical Specifications

Product Specifications

Feature	Value
Chassis Type	6-Slot Modular Switch (Nexus 7706)
Supervisor Modules	2 × SUP2E (Active/Standby)
Fabric Modules	6 × Fabric-2 Modules (Included)
Power Supplies	Not Included (Supports 3.5kW HV AC/DC)
Rack Units	9RU
10G Ports	192
40G Ports	96
100G Ports	48
System Forwarding Capacity	21 Tbps
Max Local Switching Capacity	2.4 Tbps
Max Inter-Slot Switching Capacity	2.4 Tbps
Dimensions (H × W × D)	15.6 × 17.3 × 32 in. (39.62 × 43.9 × 81.3 cm)
Chassis Depth (with Cable Management)	38 in. (96.52 cm)



Feature	Value
Fan Tray (Gen2)	7.75 lb (3.5 kg)
Operating Temperature	32 to 104°F (0 to 40°C)
Humidity	5% to 90% Noncondensing
Altitude	-500 to 13,123 ft. (Certified 0-6,500 ft.)
Heat Dissipation	Max 26,280 BTU/hr (Configuration-Dependent)
Seismic Rating	Zone 4 per GR-63
Floor Loading	92 lbs/sq. ft.
Minimum NX-OS Version	6.2.6 or Later
Network Management	Cisco DCNM
Programming Interfaces	XML, Python, OpenFlow, Cisco OnePK, TCL
Hot-Swap Components	Power Supplies, Fabric Modules, Fan Trays, Supervisor Engines
MIB Support	SNMPv3, v2c, v1
Compliance (EMC)	FCC Part 15 Class A, EN55022 Class A, VCCI Class A
Compliance (Safety)	UL/CSA/IEC/EN 60950-1
NEBS	SR-3580 Level 3 (Validation in Progress)
Options	Door Air Filter, Lockable Front Module Doors, Power Supply Center Cable Management

Product Comparison

Feature	C1-N7706-B26S2E	C1-N7004-S2E	C1-N9K-C9372PX-E
Chassis Type	6-Slot Modular Switch	4-Slot Modular Switch	Fixed Port Switch
Switching Capacity	21 Tbps	8 Tbps	2.56 Tbps
10G Ports	192	96	48
40G Ports	96	24	6
100G Ports	48	8	6
Supervisor Modules	2 × SUP2E (Active/Standby)	2 × Supervisor	N/A (Fixed)
Fabric Modules	6 × Fabric-2 Modules	4 × Fabric Modules	N/A



Feature	C1-N7706-B26S2E	C1-N7004-S2E	C1-N9K-C9372PX-E
Rack Units	9RU	7RU	1RU
Power Supplies	Up to 4 (3.5kW HV AC/DC)	Up to 2 (AC/DC)	2 (AC)
Hot-Swap Components	Yes	Yes	Yes
Advanced Virtualization	Supported	Supported	Supported
Management Interface	Cisco DCNM, XML, Python	Cisco DCNM, XML, Python	Cisco DCNM, CLI
Application Scenario	Large/Medium Data Center Core	Medium Data Center Core	High-Density 10G/40G Access

Accessories

Category	Accessories
Included Accessories	- Installation Rail Kit - Fan Tray - Documentation Kit
Optional Accessories	- Supervisor Module - Fabric Module - Door Air Filter



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References

[1] Cisco Systems. (2023). Cisco Nexus 7000 Series Switches Data Sheet. Retrieved from https://www.cisco.com/c/en/us/products/collateral/switches/nexus-7000-series-switches/data_sheet_c78-728187.html