



Cisco

C1-N7706-B26S2E-R

Datasheet



Product Overview

- The Cisco Nexus 7000 Series is Cisco's flagship data center switch family, offering robust networking for critical enterprise environments.
- Ideal for large-scale data centers and cloud infrastructures, the Nexus 7000 addresses needs of service providers, integrators, and enterprise IT.
- Key metrics include up to 83 Tbps switching capacity, options for 10/40/100GbE ports, and support for up to 768 native 10-Gbps connections.
- Innovative features such as a unified fabric architecture and common ASIC platform deliver seamless integration and operational consistency.
- Integrated Cisco NX-OS ensures extensive management and automation, making deployment and system upgrades simple and efficient.
- Designed for demanding growth, the Nexus 7700 delivers high resiliency and scalability, empowering users to future-proof their core infrastructure.

Product Highlights

- **Flexible High-Density Design:** Up to 192 x 1G/10G, 96 x 40G, and 48 x 100G Ethernet ports in a compact 9RU chassis, ideal for diverse data center sizes.
- **Redundant Supervision & ISSU:** Dual half-slot supervisors enable full redundancy, stateful switchovers, and in-service software upgrades for continuous reliability.
- **Parallel Forwarding Fabric:** Six fabric module slots ensure active channels to every I/O and supervisor module, achieving 10.5 Tbps or more for demanding throughput.
- **Efficient Cooling & Maintenance:** Front-to-back airflow, redundant fan trays with hot-swap ability, and optional air filtration enable optimal operation and easy field maintenance.

Detailed Features



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Component	Specification
Rack Space	9RU
Module Slots	6 (2 supervisor, 4 I/O)



Versatile Modular Architecture

The Cisco Nexus 7000 Series features a choice of chassis with variable slot counts, all supporting high-density configurations and integrated cable management. Each chassis is designed for space optimization in different deployment scenarios and ensures flexible, future-proofing infrastructure.

High-Performance Mid-Plane Architecture

A passive mid-plane connects fabric and I/O modules, providing direct data transfer and eliminating bottlenecks. Crossbar fabric ASICs on every I/O and fabric module deliver wire-speed intermodule switching, essential for today's rapidly expanding data center traffic.

Scalable Distributed Fabric Design

A fully distributed fabric architecture with support for up to five fabric modules enables up to 550 Gbps per slot. Total system forwarding capacities scale up to 18.7 Tbps, catering to large cloud and virtualization environments with flexible upgrades for growing bandwidth demands.

Energy Efficiency and Cooling Optimization

Power supplies reach up to 90 percent efficiency, minimizing energy waste and reducing operational costs. Modular fan trays adjust speed automatically for optimal thermal performance and can be selectively powered off for additional energy savings in partially populated chassis.

Advanced Redundancy and Availability

The Nexus 7000 architecture delivers nonstop operation, leveraging hot-swappable modules for power supplies, fans, and supervisors. Redundant components and in-service software upgrade capability minimize planned and unplanned downtimes.

Comprehensive Device Virtualization

Device virtualization features enable the consolidation of multiple network functions into a single chassis. This simplifies topology and increases overall power efficiency by reducing the number of partially loaded systems, improving ROI and flexibility.

Future-Proof Technology Adoption

Midplane and backplane designs support easy technology refreshes, extending product lifecycle and minimizing forklift upgrades. This ongoing investment protection ensures deployment agility and readiness for emerging standards in data center networks.

Robust Management and Compliance

Cisco Nexus 7000 Series supports advanced DCNM management, industry protocols, and rich diagnostic tools. Regulatory compliance (EMC, NEBS, safety) and support for secure device interfaces enable streamlined, standards-based operations in global environments.

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



Feature	Value
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)
Operating Temperature Range	32 to 104°F (0 to 40°C)
Min Operating Temperature	32°F (0°C)
Max Operating Temperature	104°F (40°C)
Humidity Range	5 to 90% Noncondensing
Altitude Range	-500 to 13,123 ft.
Altitude Certification	Certified 0-6,500 ft.
Max 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
EMC Compliance	FCC Part 15 Class A, EN55022 Class A, VCCI Class A
Safety Compliance	UL/CSA/IEC/EN 60950-1
NEBS Compliance	SR-3580 Level 3 (Validation in Progress)
Optional Accessories	Door Air Filter, Lockable Front Module Doors, Power Supply Center Cable Management

Product Comparison

Feature	C1-N7706-B26S2E-R	C1-N7706-B23S2E	C1-N7710-B26S2E-R
Chassis Type	6-Slot Modular (Nexus 7706)	6-Slot Modular (Nexus 7706)	10-Slot Modular (Nexus 7710)
10G Ports	192	192	384
40G Ports	96	96	192
100G Ports	48	24	96



Feature	C1-N7706-B26S2E-R	C1-N7706-B23S2E	C1-N7710-B26S2E-R
System Forwarding Capacity	21 Tbps	10.5 Tbps	42 Tbps
Power Supply Support	Up to 4 x 3.5kW HV AC/DC	Up to 4 x 3kW HV AC/DC	Up to 6 x 3.5kW HV AC/DC
Rack Units	9RU	9RU	14RU
Supervisor Engines	2 × SUP2E	2 × SUP2E	2 × SUP2E
Fabric Modules	6 Fabric-2 Modules	6 Fabric-1/2 Modules	10 Fabric-2 Modules
Management	Cisco DCNM, CLI, APIs	Cisco DCNM, CLI	Cisco DCNM, CLI, APIs
Hot-Swap Components	Power/Fabric/Fan/Supervisor	Power/Fabric/Fan/Supervisor	Power/Fabric/Fan/Supervisor
Target Deployment	Medium & large DC	Medium & large DC	Large scale & high-density DC

Accessories

Category	Accessories
Included Accessories	- Chassis Enclosure - Mounting Brackets - Documentation Kit
Optional Accessories	- Door Air Filter - Lockable Front Module Doors - Power Supply Center Cable Management



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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