



Cisco

C1-N7710-B26S2E

Datasheet

Product Overview

- Cisco Nexus 7000 Series defines core networking for enterprise and service provider data centers.
- This modular solution targets mission-critical cloud and core networks for large enterprises, operators, and cloud providers.
- Distinctive features include proven NX-OS software, ASIC-powered forwarding, and operational consistency across the Nexus range.
- Optimal for scalable high-performance networks, the Nexus 7710 boosts reliability, speed, and energy efficiency for modern data centers.

Product Highlights

- **Scalable High-Density Switching:** Supports up to 384 × 1/10G, 192 × 40G, or 96 × 100G Ethernet ports, making it suitable for large-scale deployments.
- **Redundant Supervision:** Equipped with two dedicated half-slot supervisor engines, provides full redundancy and stateful failover.
- **Active Fabric Architecture:** Six fabric slots create parallel forwarding, enabling over 21 Tbps forwarding with minimal latency or bottlenecks.
- **Energy-Efficient Cooling:** Front-to-back airflow, three redundant fan trays, and hot-swappable fans adapt for efficient operation and power savings.

Detailed Features



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Component	Specification
Module Slots	10 (2 supervisor, 8 I/O)



Chassis Form Factor Flexibility

The series is available in four chassis variants: 18-slot, 10-slot, 9-slot, and 4-slot, each tailored for different density and layout needs. The 10-slot chassis offers 10 vertical, front-access modules and efficient cable management, making it ideal for deployers seeking scalable expansion with organized connectivity.

Passive Mid-Plane Architecture

A passive mid-plane design interconnects fabric and I/O modules for direct internal data transfer, ensuring high bandwidth and robust physical reliability. In 9-/10-/18-slot models, this layout delivers direct crossbar ASIC communication for low-latency, high-throughput switching.

Scalable, Distributed Fabric

Up to five fabric modules can combine with the chassis midplane, delivering up to 550 Gbps/slot. Depending on the chassis, total forwarding capacity reaches 8.8 Tbps, 9.9 Tbps, or 18.7 Tbps, while the 4-slot model achieves 1.92 Tbps. This ensures future-proof scaling for heavy data loads.

Future-Proof Technology Investment

The midplane/backplane supports seamless upgrades to emerging technologies, safeguarding network investments as performance needs and protocols evolve. Modular slot designs facilitate flexible hardware refreshes with minimal downtime or disruption.

High-Efficiency Power Design

Power supplies deliver up to 90% efficiency, significantly reducing energy loss as heat compared to standard units, and maximizing usable power for system components and network loads.

Intelligent Thermal Control

Fan speed automatically adapts to thermal conditions. In partially populated 9-slot chassis, unused fans are powered down, minimizing waste and lowering overall power consumption.

Data Center Virtualization Support

The consolidation of high-density ports, support for device virtualization, and robust reliability features enable IT to reduce hardware count, streamline management, and optimize overall energy efficiency.

Consistent Reliability & Availability

Redundant modules, advanced supervision, and proactive thermal management deliver consistently high uptimes, critical for modern, always-on data center services.

Technical Specifications

Product Specifications

Feature	Value
Chassis Type	10-Slot Modular Switch (Nexus 7710)
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	14RU
10G Ports	384
40G Ports	192
100G Ports	96
System Forwarding Capacity	42 Tbps
Max Local Switching Capacity	2.4 Tbps
Max Inter-Slot Switching Capacity	2.4 Tbps
Dimensions (H × W × D)	24.35 × 17.3 × 34 in. (61.85 × 43.9 × 86.4 cm)



Feature	Value
Chassis Depth (with Cable Management)	40 in. (101.6 cm)
Operating Temperature	32 to 104°F (0 to 40°C)
Min Operating Temperature	32°F (0°C)
Max Operating Temperature	104°F (40°C)
Humidity	5% to 90% noncondensing
Altitude	-500 to 13,123 ft (Certified 0–6,500 ft)
Min Altitude	-500 ft
Max Altitude	13,123 ft (Certified 0–6,500 ft)
Heat Dissipation	Max 52,500 BTU/hr (configuration-dependent)
Seismic Rating	Zone 4 per GR-63
Floor Loading	122 lbs/sq. ft.
Minimum NX-OS Version	6.2.2 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)
Options	Door Air Filter, Lockable Front Module Doors, Power Supply Center Cable Management

Product Comparison

Feature	C1-N7710-B26S2E	C1-N7706-B26S2E-R	C1-N9K-C9332PQ
Slots	10 (2 supervisors, 8 I/O)	6 (2 supervisors, 4 I/O)	32 fixed ports
10G Ports	384	192	32
40G Ports	192	96	32
100G Ports	96	24	0
Max System Forwarding	42 Tbps	21 Tbps	6.4 Tbps



Feature	C1-N7710-B26S2E	C1-N7706-B26S2E-R	C1-N9K-C9332PQ
Rack Units	14RU	9RU	1RU
Management	Cisco DCNM, SNMP	Cisco DCNM, SNMP	NX-OS, SNMP
Hot-Swap Support	Power, fabric, supervisor, fan	Power, fabric, supervisor, fan	Power, fan
Power Supply Slots	8	4	2
Airflow	Front-to-back	Front-to-back	Front-to-back
Best Use	Large cloud, data center core	Medium data center core	Leaf, ToR/aggregation

Accessories

Category	Accessories
Included Accessories	- Power Supply Bay Blank - Fan Tray - Cable Management Arm
Optional Accessories	- Door Air Filter - Lockable Front Module Doors - Additional Supervisor Modules



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References

[1] Cisco. (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