



Cisco

C1-N7710-B26S2E-R

Datasheet



Product Overview

- The Cisco Nexus 7000 Series is Cisco's flagship modular data center switch, designed for mission-critical core applications.
- With more than 83 Tbps of switching capacity, up to 768 10G, 384 40G, or 192 100G Ethernet ports, it ensures robust scaling.
- The Nexus 7700 extends the proven architecture with dedicated supervisors for redundancy and ISSU for uninterrupted upgrades.
- Rich NX-OS features and unified management simplify operation, ensuring high uptime for evolving cloud or virtualized deployments.

Product Highlights

- **High Port Density:** Supports up to 384 × 10G, 192 × 40G, or 96 × 100G Ethernet ports for large-scale deployments.
- **Redundant Supervisors:** Dual half-slot supervisor modules provide full redundancy and stateful switchover with ISSU support.
- **Advanced Fabric Architecture:** Six fabric module slots and a parallel switching fabric deliver up to 21 Tbps forwarding capacity.
- **Optimized Airflow and Cooling:** Front-to-back airflow, redundant hot-swappable fan trays, and optional air filter for effective cooling.

Detailed Features



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Component	Specification
Switch Module Slots	10 (2 supervisors, 8 I/O modules)



Modular Chassis Design

The Cisco Nexus 7000 Series offers multiple chassis options, including versatile 18-slot, 10-slot, 9-slot, and 4-slot models, each designed for scalable deployment in different data center sizes and architectures. The modularity ensures support for growing network demands and future expansion needs.

Innovative Passive Mid-Plane

A passive mid-plane architecture connects fabric and I/O modules directly, providing robust internal data pathways and reducing the complexity of intermodule switching, which improves reliability and supports fast, efficient direct data transfer across all slots.

High-Density Switching Performance

With a fully distributed fabric of up to five modules and a powerful integrated midplane, the series delivers up to 550 Gbps per slot. This results in total switching capacities of 8.8 Tbps to 18.7 Tbps, meeting the needs of today's high-bandwidth applications and virtualization workloads.

Integrated Cable Management

Purpose-built cable management systems, regardless of chassis form factor, ensure clean and organized deployments. Cable organization not only speeds up maintenance but also supports secure and stable connectivity, particularly vital in large-scale enterprise and cloud environments.

Flexible Technology Upgrades

Flexible mid-plane and backplane designs on different chassis support seamless technology upgrades. This allows investment protection by enabling new features and line cards without the need to replace the chassis, helping businesses keep pace with changing networking standards.

Energy Efficient Power and Cooling

With power supplies offering up to 90% efficiency, less energy is lost as heat. Intelligent fan modules adapt to thermal demands, lowering power usage, and optimizing cooling based on real-time operational requirements, which improves system longevity and lowers OPEX.

Advanced Virtualization Capability

The combination of high density, robust performance, device virtualization, and comprehensive reliability features allows consolidation of multiple switches. This boosts energy efficiency, simplifies management, and enhances redundancy for even the largest data center environments.

Reliability and Scalability

Designed for nonstop operation, the series delivers high availability with redundant components, fabric modules, scalable slot capacities, and advanced NX-OS features. This architecture supports mission-critical applications where downtime is not an option and growth is continuous.

Technical Specifications

Product Specifications

Feature	Value
Chassis Type	10-Slot Modular Switch
Supervisor Modules	Dual SUP2E (Active/Standby)
Fabric Modules	6 × Fabric-2 Modules Included
Rack Units	14RU
Forwarding Capacity	42 Tbps
Local Switching Capacity	2.4 Tbps
10G Port Density	384 × 10G
40G Port Density	192 × 40G
100G Port Density	96 × 100G
Dimensions (W×H×D)	24.35 × 17.3 × 34 in (61.85 × 43.9 × 86.4 cm)
Dimensions Width	24.35 in / 61.85 cm
Dimensions Height	17.3 in / 43.9 cm



Feature	Value
Dimensions Depth	34 in / 86.4 cm
Power Support	Supports 3.5 kW HV AC/DC (PSUs not included)
Minimum NX-OS Version	6.2.2
Management	Cisco DCNM
Operating Temperature	0°C to 40°C (32°F to 104°F)
Min Operating Temperature	0°C (32°F)
Max Operating Temperature	40°C (104°F)
Altitude	-500 to 13,123 ft
Min Altitude	-500 ft
Max Altitude	13,123 ft

Product Comparison

Feature	C1-N7710-B26S2E-R	C1-N7706-B26S2E	C1-N7010-B2S2E
Chassis Type	10-Slot Modular Switch	6-Slot Modular Switch	10-Slot Modular Switch
Supervisor Modules	Dual SUP2E (Active/Standby)	Dual Supervisor Modules	Dual Supervisor Modules
Fabric Modules	6 × Fabric-2 Modules Included	4 × Fabric-2 Modules Included	6 × Fabric Modules Supported
Switching Capacity	42 Tbps	23 Tbps	11.4 Tbps
10G Port Density	384 × 10G	192 × 10G	192 × 10G
40G Port Density	192 × 40G	72 × 40G	48 × 40G
100G Port Density	96 × 100G	24 × 100G	24 × 100G
Rack Units	14RU	9RU	14RU
Management	Cisco DCNM	Cisco DCNM	Cisco DCNM
Minimum NX-OS Version	6.2.2	6.2.2	6.2.2



Accessories

Category	Accessories
Included Accessories	- Supervisor Modules - Standard Power Cables - Chassis Rail Kit
Optional Accessories	- Fabric Modules - Additional Power Supply Units - Air Filter Module



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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