



Cisco

C1-N7010-B2S2-R

Datasheet

Product Overview

- Cisco Nexus 7000 Series Switches deliver core modular switching for demanding, mission-critical data center environments.
- Ideal for large enterprises, cloud providers, and service operators needing robust, scalable networking foundations.
- Key features include seamless, uninterrupted service, virtualization capabilities, and advanced NX-OS system upgrades.
- The Nexus 7000 boosts network reliability, scalability, and rapid deployment, meeting the evolving needs of high-performance data centers.

Product Highlights

- **High-Density Ethernet Ports:** Supports up to 384 × 1/10G, 48 × 40G, and 16 × 100G Ethernet ports for large-scale deployments.
- **Redundant Supervisors:** Equipped with two dedicated supervisor slots, ensuring continuous operation and full system redundancy.
- **Intelligent Cooling:** Dual system and fabric fan trays offer redundancy, variable-speed fans, and hot-swap capability for optimal efficiency.
- **Easy Access and NEBS Compliance:** Front access for I/O and supervisors, back access for fabric/power/fans, plus optional air filter for NEBS standards.

Detailed Features



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Component	Specification
Chassis Slots	10-slot: 2 supervisor, 8 I/O



Scalable Chassis Options

The Nexus 7000 series provides 18-slot, 10-slot, 9-slot, and 4-slot chassis, each optimized for different data center sizes and layouts. This modular flexibility allows adaptation to rapid business changes while maintaining high performance.

Passive Mid-Plane Architecture

All chassis utilize a passive mid-plane to connect fabric and I/O modules, enabling nonblocking data transfer via crossbar fabric ASICs for optimal throughput and minimal latency without electrical failures from active components.

High-Capacity Fabric Design

Up to five fabric modules, paired with a robust chassis midplane, deliver forwarding capacity up to 18.7 Tbps on 18-slot units. The design supports 8.8 Tbps on 9-slot and 9.9 Tbps on 10-slot models, meeting the heaviest traffic demands.

Flexible Technology Upgrades

Midplane/backplane designs allow seamless technology upgrades for changing network requirements. This provides ongoing protection for your network investments by enabling smooth transitions to future standards or bandwidth demands.

Energy-Efficient Operation

Up to 90% efficient power supplies and smart fan modules that lower speeds when not required reduce total energy consumption and heat output, which is vital for cost-effective, eco-friendly operations.

Dynamic Fan Management

Fan trays automatically adapt to the switches thermal profile, and unused rows can be powered down. Hot-swappable fans and redundancy further minimize downtime and maintain operating efficiency.

Network Consolidation

Enables consolidation of multiple legacy switches into a single Nexus 7000 chassis by leveraging density and virtualization. This lowers power use, operational costs, and physical footprint while boosting reliability.

Comprehensive Virtualization Support

Device virtualization and comprehensive Layer 2/3 features are built in, with nonstop operation for uninterrupted network services and robust availability. This ensures seamless service delivery for demanding enterprise network environments.

Technical Specifications

Product Specifications

Feature	Value
Chassis	1 × Nexus 7010
Supervisory Engines	2 × SUP2
Fabric Modules	5 × FAB2
Power Supplies	Not included
Rack Units	21RU
System Memory	8 GB DRAM
Flash Memory	2 GB
Supervisor Engine CPU	Dual-core 2.13 GHz, Intel Xeon
Virtual Output Queues	64,000 per system
Ethernet Ports	Up to 512 1/10/40 GbE interfaces
MPLS Support	Yes
PoE/PoE+ Support	No
Layer 2 & 3 Support	Yes
High Availability Features	Yes



Feature	Value
Management Ports	1 × 10/100/1000 Mbps Ethernet
Airflow	Front-to-back

Product Comparison

Feature	C1-N7010-B2S2-R	C1-N7706-B23S2E	C1-N7718
Chassis Slots	10	6	18
Supervisors Supported	2	2	2
Fabric Module Slots	5	3	6
Max 1/10G Ports	384	192	576
Max 40G Ports	48	48	96
Max 100G Ports	16	24	72
Power Supply Slots	3	2	4
Rack Units	21RU	9RU	24RU
Airflow	Front-to-back	Front-to-back	Side-to-side
Redundancy	Supervisor, fan, fabric	Supervisor, fan	Supervisor, fan, fabric

Accessories

Category	Accessories
Included Accessories	- Mounting Bracket - Console Cable - Documentation Kit
Optional Accessories	- Supervisor Module - Additional Fan Tray - Fabric Module



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Expert Technical Support: ccie-support@router-switch.com

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Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK



References

[1] Cisco. (2024). 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_C78-437762.html