

Cisco C1-N7018

Datasheet



Product Overview

- Cisco Nexus 7000 Series Switches represent Cisco's high-performance modular platform for core data center networks.
- With up to 18 slots, 1/10/40/100G Ethernet support, and a switching fabric scaling beyond 17 Tbps, it delivers strong throughput.
- Designed around continuous operation, these switches offer virtualized services and integrated reliability for demanding deployments.
- Cisco NX-OS software enables real-time upgrades, simplified management, and high availability across mission-critical environments.

Product Highlights

- **Massive Port Density:** Supports up to 768 x 1/10GbE, 96 x 40GbE, and 32 x 100GbE ports, fitting the needs of the largest deployments.
- **Redundant Supervisor Slots:** Two dedicated supervisor slots guarantee high availability and resilient system operation.
- **Optimized Rack Utilization:** Side-to-side airflow and a 25RU footprint maximize free rack space for superior cable management.
- **Service-Friendly Maintenance:** Front access for I/O/supervisor modules, rear access for fabrics, fans, and power simplifies upgrades and repairs.

Detailed Features



C1-N7018

[Quote](#) | [Help](#)

Component	Specification
Chassis Slots	18 (2 supervisor + 16 I/O)



Flexible Chassis Options

The Nexus 7000 Series is available in multiple chassis forms, such as 18-slot, 10-slot, 9-slot, and 4-slot, each optimized for varying scale and layout. This flexibility enables precise matching to real-world data center requirements and evolving workloads.

Passive Mid-Plane Design

A passive mid-plane architecture connects fabric and I/O modules directly with high-integrity copper traces, eliminating data transfer bottlenecks and enhancing fault isolation. The design ensures low power loss and supports scalable high-speed switching fabrics.

Distributed Fabric Architecture

Up to five fabric modules work with the midplane to deliver scalable bandwidth per slot up to 550 Gbps per slot and total system capacity up to 18.7 Tbps on the 18-slot. This supports latency-sensitive applications and high throughput.

Investment Protection

Modular chassis midplane and backplane architectures enable future technology upgrades without replacing the entire platform. This offers ongoing protection for IT investments and adaptation to networking advances.

Power Efficiency

Power supplies are up to 90% efficient, reducing total heat output and energy cost. The intelligent fan system adjusts speeds and deactivates zones when not required, further decreasing unnecessary power consumption.

Cable Management and Density

Integrated cable management with side-to-side airflow permits high-density deployments. This leaves extra rack space for future expansion and simplifies installation in both new and retrofitted data centers.

Device Virtualization

Integrated device virtualization and high feature availability eliminate the need for multiple standalone switches. This consolidation cuts down equipment overhead, boosts system resilience, and streamlines network administration.

Continuous Operations

The combination of redundant modules, hot-swappable fans, and supervisor slots ensures system availability. Maintenance and upgrades can occur with minimal service disruption, aligning with the 24/7 demands of modern data centers.

Technical Specifications

Product Specifications

Feature	Value
Number of Slots	18
Rack Units	21U
Power Supplies	Not included
Cooling System	Fans included
Network Architecture	Modular
Switching Capacity	15 Tbps
Forwarding Rate	720 Mpps
Layer Support	Layer 2 and Layer 3
Redundancy	Supported
Height	36.5 in (92.7 cm)
Width	17.3 in (43.9 cm)
Depth	29.2 in (74.2 cm)
Initial Configuration	CLI, XML API, SNMP



Feature	Value
Operating Temperature	32°F to 104°F (0°C to 40°C)
Storage Temperature	-40°F to 158°F (-40°C to 70°C)
Relative Humidity	5% to 95% non-condensing
Vibration	1.0G at 2 to 200 Hz
Certifications	FCC, UL, CE, VCCI

Product Comparison

Feature	C1-N7018	C1-N9K-C9504-B3	C1-N7010-B2S2-R
Chassis Slots	18 (2 supervisor + 16 I/O)	4	10
Switching Capacity	15 Tbps	6.4 Tbps	8.8 Tbps
Forwarding Rate	720 Mpps	2.4 Bpps	550 Mpps
Ethernet Port Support	768 x 1/10GbE, 96 x 40GbE, 32 x 100GbE	192 x 1/10/25GbE	384 x 1/10GbE
Form Factor	21U	7U	14U
Redundancy	Supported (dual supervisor, dual PSU)	Supported	Supported
Layer Support	Layer 2 & Layer 3	Layer 2 & Layer 3	Layer 2 & Layer 3
Initial Configuration	CLI, XML API, SNMP	CLI/SNMP	CLI/SNMP
Network Architecture	Modular	Modular	Modular
Fan Design	Hot-swappable, redundant	Hot-swappable	Hot-swappable
Target Usage	Large DC Core/Aggregation	High-capacity DC Spine	Medium/Large DC, Aggregation

Accessories

Category	Accessories
Included Accessories	- Fan Modules - Mounting Kit - Documentation Guide



Category	Accessories
Optional Accessories	- Supervisor Module - Fabric Module - Power Supply Unit



Support & Warranty



24/7 Online
Service



3-Year Premium
Warranty



Professional
Technical Support



100% Low Price
Guarantee



100% Quality
Assurance



100% Money
Back Guarantee

About Us



Router-switch.com, headquartered in Hong Kong since 2002, has been a trusted global leader in ICT distribution for 23 years. We provide cutting-edge networking, cybersecurity, data center, and AI solutions to meet evolving business needs. Our wide range includes products from top brands like Cisco, Arista, Aruba, Fortinet, Mellanox, and Huawei, ensuring access to the latest technology and innovations.

18,000+

global customers

600,000+

end-users

200+

countries & regions

23

years experience

500+

global vendors

100,000+

SKUs available

700+

local sales experts

50-98%

off global list prices

Contact Us

Email

High Connectivity: sales@router-switch.com

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

Cooperative Partnerships: ccie-support@router-switch.com

Phone

USA: +1-626-655-0998

Hong Kong: +852-25925389 / +852-25925411

Follow Us

Facebook: [@Routerswitchdotcom](https://www.facebook.com/Routerswitchdotcom)

LinkedIn: [Router-switch.com](https://www.linkedin.com/company/router-switch.com)

X: [@routerswitchcom](https://twitter.com/routerswitchcom)

Instagram: [@routerswitchdotcom](https://www.instagram.com/routerswitchdotcom)

Global Footprint

Global Warehouses & Service Centers Across Continents.



Global Branches

Headquarters (Hong Kong)

Rm 605, 6/F, Fa Yuen Comm Bldg, 75-77 Fa Yuen St, Mongkok, Kowloon, Hong Kong, China

USA Branch

3592 Rosemead Blvd, B #220, Rosemead, CA 91770, USA

Shenzhen Branch

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

UK Branch

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



References

[1] Cisco. (2023). Cisco Nexus 7000 Series Switches Datasheet. Retrieved from https://www.cisco.com/c/en/us/products/collateral/switches/nexus-7000-series-switches/Data_Sheet_C78-437762.html