

# Cisco 8202-SYS

## Datasheet

## Product Overview

- The Cisco 8202-SYS is part of Cisco's 8000 series routers, designed to deliver high performance and reliability in enterprise networks.
- It's optimized for data centers, service providers, and high-demand enterprise environments that require secure, intelligent routing.
- The 8202-SYS features a 12.8 Tbps switching capacity, 2 RU form factor, and 32 QSFP56-DD 400GbE ports with MACsec for secure and high-speed connectivity.
- This router supports flexible port rate configurations and breakout options, catering to diverse networking needs.
- With advanced automation capabilities for onboarding and monitoring, it enhances network efficiency and simplifies management tasks.
- Ideal for complex network deployments, the 8202-SYS ensures robust performance and seamless integration with existing infrastructure.

## Product Highlights

- **High Performance:** Supports up to 12.8 Tbps with 32 QSFP56-DD 400GbE ports, offering impressive data transfer speeds and reliability.
- **Flexible Port Configuration:** Allows for varied port configurations, including 800G, 400G, 100G, and more, accommodating diverse networking requirements.
- **Advanced Security:** Integrated MACsec encryption provides secure data transmission across all ports, ensuring data integrity and protection.
- **Enhanced Automation:** Features for automated onboarding, service provisioning, and network monitoring reduce operational complexity and increase efficiency.

## Detailed Features



8202-SYS

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Component	Specification
Switching Capacity	12.8 Tbps
Form Factor	2 RU
Ports	32 QSFP56-DD 400GbE with MACsec



## Integrated Interfaces

The Cisco 8202-SYS supports flexible port rate configurations, including 800G (8x 100G, 2x 400G), 400G, 100G, 40G, 25G, and 10G. This versatility ensures the router can adapt to various network demands and future-proof deployments.

## Breakout Support

Breakout options for 2x 400G and 8x 100G on 8212-48FH-M provide enhanced port density and flexibility. This allows for more granular bandwidth allocation and efficient fiber utilization in dense network environments.

## Routed Optical Network Ready

Supports 400G DCO optics, making it ready for routed optical networks. This feature significantly enhances the router's capability to handle high-capacity optical networks and improve network scalability.

## Cisco Pluggable Interface

Compatible with a diverse range of optical modules, including QSFP+, QSFP28, QSFP56-DD, and QSFP-DD800. This compatibility ensures optimal performance and flexibility in module selection for various network scenarios.

## Enhanced Automation

Offers enhanced automation features for onboarding, service provisioning, and network monitoring. These capabilities reduce manual intervention, accelerate deployments, and improve overall network management efficiency.

## Programmable Infrastructure

With support for segment routing (SR, SRv6) and Ethernet VPN (EVPN), the 8202-SYS provides a programmable infrastructure that adapts to changing network requirements and optimizes traffic flow.

## Redundant Design

Equipped with N+1 redundant fans and 1+1 redundant AC or DC power supplies, ensuring high availability and reliability in mission-critical environments.

## Advanced CPU Capabilities

Powered by an Intel Broadwell 4-core 2.4 GHz CPU with 32 GB of DRAM, it offers robust processing power for complex networking tasks and high-capacity data handling.

# Technical Specifications

## Product Specifications

Feature	Value
Model	8202-SYS
Brand	Cisco
Operating temperature	32 to 104°F (0 to 40°C)
Nonoperating temperature	-40 to 158°F (-40 to 70°C)
Humidity	5% to 95% (noncondensing)
Altitude	0 to 9842 ft. (0 to 3000 m)
Feature	Intel Broadwell 4-core 2.4 GHz CPU with 32 GB of DRAM
Power Supply	2 power supplies
Typical system power	750 W
Dimension	H: 3.45 in. x W: 17.3 in. x D: 20.1 in.
Regulatory compliance	CE Markings according to directives 2004/108/EC and 2006/95/EC
Safety	UL 60950-1 Second Edition, CAN/CSA-C22.2 No. 60950-1 Second Edition, EN 60950-1 Second Edition, IEC 60950-1 Second Edition



Feature	Value
EMC: Emissions	47CFR Part 15 (CFR 47) Class A, AS/NZS CISPR22 Class A, CISPR22 Class A, EN55022 Class A
EMC: Immunity	EN55024, CISPR24, EN300386, KN 61000-4 Series
RoHS	RoHS-6 compliant with exceptions for BGA balls and lead press-fit connectors

## Product Comparison

Feature	8202-SYS	ASR1004-10G-SHA/K9	Juniper ACX5448-DC-AFO
Switching Capacity	12.8 Tbps	20 Gbps	2.88 Tbps
Ports	32 QSFP56-DD 400GbE	4x 10GE	48x 10GE + 8x 100GE
Form Factor	2 RU	4 RU	1 RU
Redundant Power	Yes	Yes	Yes
MACsec	Yes	No	No
Programmable Infrastructure	Yes	No	Yes
Typical Power Consumption	750 W	350 W	500 W

## Accessories

Category	Accessories
Included Accessories	<ul style="list-style-type: none"> <li>- 2 Power Supplies</li> <li>- Mounting Kit</li> <li>- Console Cable</li> </ul>
Optional Accessories	<ul style="list-style-type: none"> <li>- SFP Transceivers</li> <li>- Advanced Network Modules</li> </ul>



## Support & Warranty



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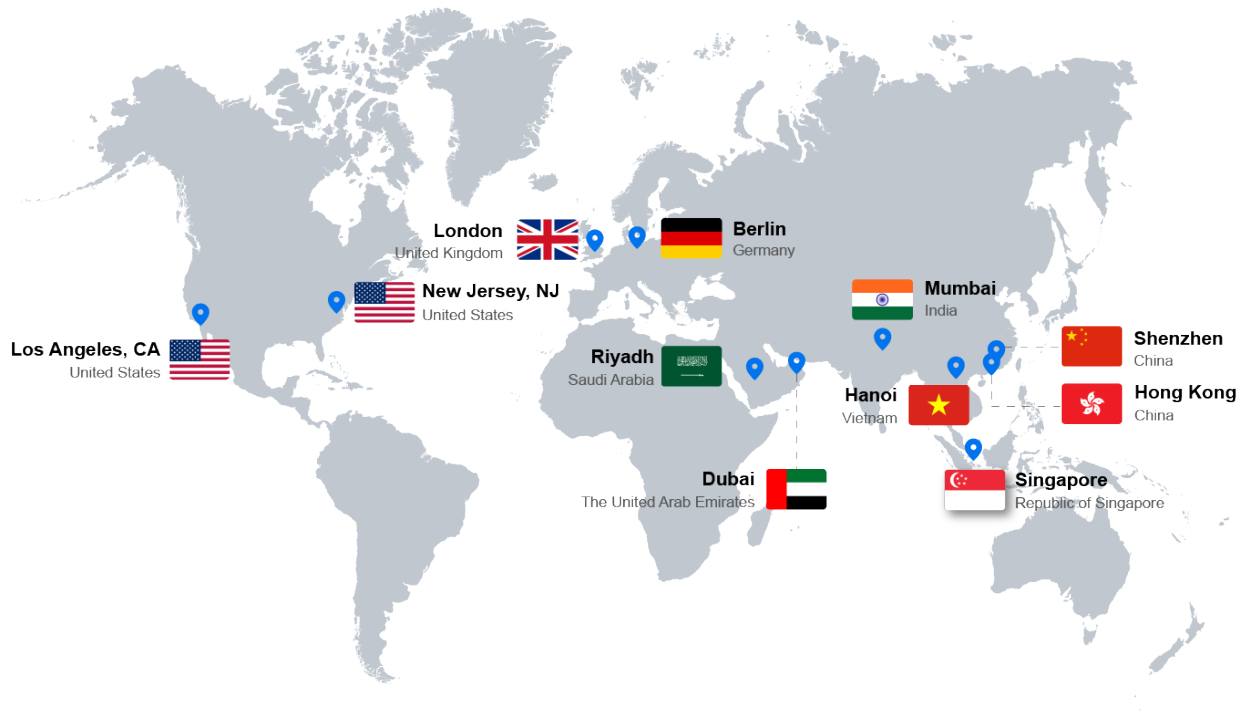
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## References

[1] Cisco Systems. (2023). 8200 Series Routers Datasheet. Retrieved from <https://www.cisco.com/c/en/us/products/collateral/routers/8000-series-routers/8200-series-routers-ds.html#ProductsSpecifications>