

# CS92-64OPA | Technical Datasheet



Data Center Switch

## Overview

The **CS92-64OPA** is a purpose-built 800GbE Ethernet switch, designed for spine/leaf layer deployment in hyperscale datacenter networks.

Housed in a 2RU chassis, the switch delivers 64-port 800GbE interfaces with support for up to 102.4Tbps non-blocking switching capacity and full L2/L3 features.

Pre-installed with ONIE (Open Network Installation Environment), CS92-64OPA supports open-source SONIC and multiple commercial NOS.

## Application

Artificial Intelligence, Machine Learning, High Performance Computing

## Product Features

### Ultra-Large Capacity

- 2RU design with 64x800G ports delivers 102.4T non-blocking switching capacity (full duplex)
- Packet forwarding rate 21000 Mpps
- Latency of 600 nanosecond
- High power efficiency

### High-Performance Design

- PHYless architecture ensures superior signal integrity
- Air-cooling support

### OS Compatibility

- Pre-loaded with Open Network Install Environment (ONIE), supporting open-source SONIC and multiple commercial NOS

## CS92-64OPA Data Center Switch Technical Specifications

Hardware Specifications	
Service port	64x OSFP112 (8x112G PAM4)
Service port indication	OSFP112: 1 LED/Port
Switching chip	Broadcom BCM78900 (Tomahawk5)
Switching Capacity	102.4Tbps full-duplex
Packet forwarding rate	21000 Mpps
Management port	1x 10/100/1000Base-T MGMT
	1x USB 2.0 Type A
	1x RJ45 Console
	2x SFP28
	3x Status LED (Yellow-Green Bi-Color)
CPU	CPU: Intel Ice lake-D 8C16T (D-1734NT)
	2x SODIMM DDR4 16GB (up to 32GB), w/ECC
	480GB M.2 SSD
BMC	Run BMC, AST2620
Power source	1+1 redundancy, 3200W CRPS PSU
	AC: 90~264VAC, HVDC: 180V~300VDC
Fan	N+1 redundancy, 4 fan modules
	Airflow: F2B
Operating temperature	0°C to 40°C, 10% to 90% RH
Size	440mm x 780mm x 87.5mm
Weight	~ 30kg
Certified	CQC, CE

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Software Specifications	
<b>System and Platform Infrastructure Features</b>	<ul style="list-style-type: none"> <li>• Dynamic Port Breakout</li> <li>• DOM Information Display</li> <li>• System Locator LED Support (Beacon)</li> <li>• CMIS 4.0 Optics Support</li> <li>• CoPP (Control Plane Policing)</li> <li>• Transceiver Parameter Tuning</li> <li>• Third-Party Container Management</li> <li>• PDDF and PDK Framework</li> <li>• Maintenance Mode                             <ul style="list-style-type: none"> <li>◦ LACP Graceful Shut</li> <li>◦ BGP Graceful Shut</li> <li>◦ OSPFv2 Maximum Metrics</li> </ul> </li> <li>• Multi-Instance Redis DB</li> <li>• Zero Touch Provisioning (ZTP)</li> <li>• ZTP Provisioning using a USB Drive</li> <li>• Auto Negotiation and Link Training</li> <li>• Forwarding Plane Drop Counters</li> <li>• Time Zone Command Support</li> <li>• Broadcom Debug Tool</li> <li>• Interface Beacon LED</li> </ul> <p>Support Option to Bind the Third-Party Container to the Management VRF</p> <ul style="list-style-type: none"> <li>• Limiting CPU/Memory/Disk Usage for Third Party Containers</li> <li>• Option to Send Audit Log Messages to Syslog Server</li> <li>• Multi-Site Data Center Interconnect(DCI)</li> <li>• Warm Reboot, Fast Reboot</li> </ul>
<b>Layer 2 Features</b>	<ul style="list-style-type: none"> <li>• VLAN</li> <li>• Interface Hold-Down</li> <li>• Static LAG</li> <li>• LACP Graceful Shutdown</li> <li>• LACP Fast Rate and LACP Fallback</li> <li>• LLDP</li> <li>• UDLD</li> <li>• PVST and RPVST+</li> <li>• STP, MSTP</li> <li>• DHCP snooping</li> <li>• link Tracking</li> </ul>

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# CS92-64OPA Data Center Switch Technical Specifications

Software Specifications	
<b>Layer 3 Features</b>	<ul style="list-style-type: none"> <li>• IPv4,IPv6</li> <li>• IGMP</li> <li>• IPV6 Routing</li> <li>• Virtual Routing and Forwarding</li> <li>• Border Gateway Protocol</li> <li>• Next Hop Group (NHG) Support</li> <li>• IPv4 ARP</li> <li>• OSPFv2</li> <li>• Route-Maps</li> <li>• Static Routes</li> <li>• Policy-Based Routing</li> <li>• Virtual Router Redundancy Protocol</li> <li>• Network Address Translation</li> <li>• ECMP load Sharing</li> <li>• IP Helper</li> <li>• RPVST, PVST, and MSTP over MC-LAG</li> </ul>
<b>ACL and Flow-Based Services</b>	<ul style="list-style-type: none"> <li>• PBR Enhancements for Service Chaining</li> <li>• ACL-based CoPP</li> <li>• ACL DSCP Map/Remarking</li> <li>• ACL Rate Limiting</li> <li>• Control Plane ACL</li> <li>• Policy-based Routing (IPv4 and IPv6)</li> <li>• ACL-based Packet Replication</li> <li>• ACL Consistency Checker</li> </ul>
<b>Security Features</b>	<ul style="list-style-type: none"> <li>• RADIUS and TACACS</li> <li>• RADIUS/TACACS Password Obfuscation</li> <li>• NTP Server and NTP Authentication</li> <li>• NTP Prefer Option</li> <li>• LDAP Integration</li> <li>• AAA Authorization support with TACACS+</li> </ul>
<b>Manageability Features</b>	<ul style="list-style-type: none"> <li>• Industry Standard CLI (IS-CLI)</li> <li>• REST and gNMI Interfaces via OpenConfig YANG (OC-YANG)</li> <li>• Role-Based Access Control (RBAC)</li> <li>• RBAC and HAMd Enhancements</li> <li>• SNMP Configuration Traps and OIDs</li> <li>• gNMI Subscription Support for Limited YANG Paths (OnChange, Interval, Once, Poll, Target defined)</li> <li>• Bulking support in both REST(YANG patch) and gNMI</li> <li>• Query parameter for REST and filtering support for gNMI</li> <li>• Scalar encoding support for gNMI</li> <li>• Support to Read Service Tag via SNMP</li> <li>• SNMP Trap Enablement on Interface Instead of Global</li> </ul>

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## CS92-64OPA Data Center Switch Technical Specifications

### Software Specifications

<b>Debuggability/ Serviceability features</b>	<ul style="list-style-type: none"><li>• In-memory Debug Logging</li><li>• Audit Logging and Syslogs</li><li>• Command to Return Interfaces to the Default Configuration</li><li>• Port Mirroring on Port Channel and VLAN</li></ul>
<b>QoS</b>	<ul style="list-style-type: none"><li>• Flow-Based QoS</li><li>• Scheduler Policy</li><li>• Port Shaping</li><li>• Qos Maps</li><li>• Control Plane Policing</li><li>• Priority Flow Control</li><li>• Storm Control</li><li>• Buffer Management</li></ul>
<b>Telemetry</b>	<ul style="list-style-type: none"><li>• sFlow</li><li>• GRPC</li><li>• Inband Flow Analytics</li><li>• Packet Drop Monitoring</li></ul>

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