

# Innovative Datacenter Switch

48 x 25GE SFP28 & 16 x 100GE QSFP28 Ports



## High-density, high performance innovation.

As customer demands for bandwidth continue to grow, datacenters require the flexibility to continually enhance the existing density of their networking environments. With its unparalleled performance and reliability, the S8900-64XC switch is a 25GE/100GE switch product that offers datacenters the flexibility they need to meet customers' ever increasing data switching demands. The S8900-64XC provides a total of forty-eight 25GE and sixteen 100GE ports in a single compact switch, making orchestration and automation easier and faster than ever. Its innovative architecture and extensive datacenter-ready features, including its low-latency, high-density ports, gives the S8900-64XC all the power it needs to simplify datacenter network infrastructures, making scale-out easy and thus giving datacenters unmatched flexibility to meet whatever bandwidth demands the future may bring. Flexible, reliable, powerful – maximize your return on investment with the next-generation S8900-64XC.

## Key applications

- High-density 25GE/100GE ToR server aggregation for high-performance datacenter environments.
- Enables cost-effective application of 25GE/100GE uplinks through small-scale implementation in Spine-Leaf networks.
- VXLAN/NVGRE capable hardware supporting virtual machine mobility.
- Superior management and security through console and out-of-band interface options.
- High-speed Layer 2 deployment support to connect nonvirtualized infrastructure with hyper visor-based overlay networks.

## Key features

- 48 x 25GE SFP28 & 16 x 100GE QSFP28 ports for downlinking and uplinking capability.
- Modular dual power supply and fan assembly with overcurrent, overvoltage, and overheating protection.
- Next-generation spine-leaf network architecture, enhancing capacity and optimizing scaling.
- CPU: Intel® Rangeley C2558 2.4G 4-Core.
- Specifically designed for utilization in high-performance datacenter environments.
- Hot and cold backup switching without system reboot or reconfiguration ensuring uninterrupted data processing and operation.

# Specifications

## Physical

- Compact full featured modular 25GE/100GE datacenter switch
- 1 RJ45 console/management port with RS232 signaling
- 1 10/100/1000 Base-T Ethernet for Out-of-Band management
- 1 USB 2.0 Type-A port

<b>Processor</b>	Intel® Rangeley C2558 2.4G 4-Core
<b>Memory</b>	DDR3 8GB w/ ECC SODIMM
<b>Storage</b>	M.2 SSD 64GB
<b>ASIC</b>	Broadcom BCM56960
<b>Built-in Interfaces</b>	Total 25GE: 48 Total 100GE: 16
<b>LED</b>	Power, system, link & activity, fan & PSU status
<b>Chassis</b>	1 RU, 440w x 44h x 520d mm (17.32" x 1.73" x 20.47")  Weight (including 2 x PSUs & 5 x fans): 10.9 kg (24.03 lb)
<b>Redundancy</b>	Two hot swappable power supplies with integrated fans and trays

## Environmental

- Fresh air compliant to 45°C (113°F)
- Rack mounting kit

<b>Power supply</b>	AC input: 100-240V, 10-5A, 60/50Hz DC input: 190-310V, 5-3A (For China only.) Typical/Max power draw: 360/440 Watts
<b>Max. operating Specs.</b>	Operating temperature: 0°C to 45°C (32°F to 113°F) Operating humidity: 10% to 90% (RH), noncondensing
<b>Max. non-operating Specs.</b>	Storage temperature: -40°C to 70°C (-40°F to 158°F) Storage humidity: 5% to 95% (RH), non-condensing

## Performance

<b>Switching Capacity</b>	5.6Tbps
<b>Packet throughput</b>	2678Mpps

## Regulatory compliance

<b>EMC</b>	EN55032 Class A EN61000-3-2/EN61000-3-3 EN55024 FCC P15B Class A BSMI (CNS 13438) Class A CCC (GB9254) Class A RoHS: RoHS 6 UL
<b>Safety</b>	IEC/EN 60950-1/A2 BSMI (CNS 14336-1) CCC (GB4943)

## S8900-64XC Views



S8900-64XC front view



S8900-64XC rear view

## Supported Accessories

<b>Transceiver</b>	10GE, SR SFP+   10GE, LR SFP+   25GE, CR SFP28   25GE, SR SFP28   40GE, SR4 QSFP+   40GE, LR4 QSFP+   100GE, CR4 QSFP28   100GE, SR4 QSFP28   100GE, LR4 QSFP28
<b>Cable types</b>	10GE, SFP+ to SFP+, AOC   10GE, SFP+ to SFP+, DAC   25GE, QSFP28 to QSFP28, AOC   25GE, QSFP28 to QSFP28, DAC   40GE, QSFP+ to QSFP+, AOC   40GE, QSFP+ to QSFP+, DAC   40GE, MTP to 4 x LC optical breakout   40GE, 4 x 10GE, QSFP+ to 4 x SFP+, DAC   100GE, QSFP28 to QSFP28, AOC   100GE, QSFP28 to QSFP28, DAC   100GE, MTP to 4 x LC optical breakout   100GE, 4 x 25GE, QSFP28 to QSFP28, DAC
<b>Power supply types</b>	CRPS650W-AC-FTB, 650W AC/DC PSU, airflow from panel to rear side (front to rear) CRPS650W-AC-BTF, 650W AC/DC, airflow from rear to panel side (rear to front)
<b>Fan types</b>	Fan normal airflow from panel to rear side Fan reverse airflow from rear side to panel Fan spare supports normal and reverse airflow operations