

S8901-54XC

Data Center ToR Switch

Next-generation cloud service applications not only generate more data but also require service providers to build more flexible, agile, and scalable networks to meet growing customer demands. The S8901-54XC is a white-box data center switch with open networking capabilities.

This high-performance switch offers a comprehensive set of features, multi-protocol support, and runtime programmability, ensuring optimal performance in even the most demanding environments.

With its compact form factor and high-density configurations, the S8901-54XC can serve as a Top-of-Rack (ToR) or leaf switch, providing versatile connectivity and traffic management.



KEY BENEFITS

- Monitoring link status to re-assign traffic flow dynamically
- Optimization for the east-west traffic pattern
- Flexible and efficient data processing
- Centralize and adaptive packet memory management architecture
- On-chip packet buffers minimize the data latency
- Dynamic load balancing enhances ECMP
- Enhanced network telemetry with programmable support
- Enable real-time network status visibility
- Versatile connectivity as a data center leaf or ToR.

KEY FEATURES

- High density 48 x 25G + 6 x 100G service interfaces
- 2.0Tbps switching capacity
- Intel® Denverton 4-Cores
- Broadcom Trident3-X5 Silicon
- Individual BMC for monitoring and managing equipment health status
- Hot swappable power supplies with 1+1 redundancy support
- Hot swappable fan modules with 4+1 redundancy support

SPECIFICATIONS

PHYSICAL

- ◆ 6 x 40/100G QSFP28 ports
- ◆ 48 x 1/10/25G SFP28 ports
- ◆ 1 x 100/1000M RJ45 management port
- ◆ 1 x RJ45 serial console port
- ◆ 1 x USB 3.0 Type-A port

Processor Intel Denverton 4-Core @ 1.6GHz

Memory 8GB DDR4 (Up to 32GB)

Storage 32GB SSD

ASIC Broadcom Trident3-X5 BCM56770

BMC AST2620

LED Power and System status LEDs per unit
Link and Activity LEDs per port
FAN Status LED per FAN
PSU Status LED per PSU

Chassis (WxDxH) 1RU, 440 x 440 x 43.8 mm or
17.32" x 17.32" x 1.72"
Weight: 8.7kg or 19.18lbs

Redundancy Hot swappable, 1+1 redundant PSU
Hot swappable, 4+1 redundant Fans

ENVIRONMENTAL

Power Specs. AC input: 100 to 240V, 6A
DC input: -36 to -75V, 16A
Typical power: 120 Watts (no transceiver)

Max. Operating Specs. Operating temperature: 0°C to 45°C (32°F to 113°F)
Operating humidity: 5% to 95% (RH), non-condensing

Max. Non-Operating Specs. Storage temperature: -40°C to 70°C (-40°F to 158°F)
Storage humidity: 5% to 95% (RH), non-condensing

PERFORMANCE

Switching Capacity 2.0 Tbps

Packet Buffer 32 MB

REGULATORY COMPLIANCE

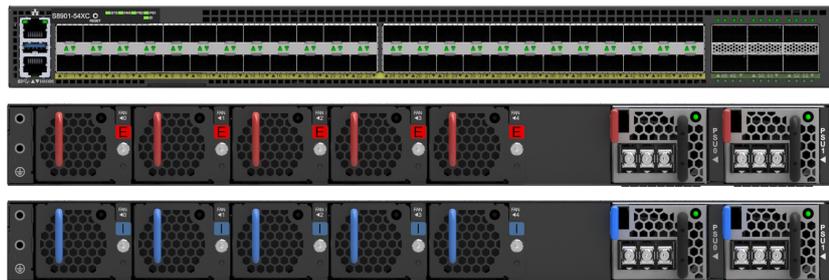
Safety	UL 62368-1	EMC	FCC Part 15, Subpart B, Class A
	IEC 62368-1		ICES-003, Class A
Environment	WEEE		EN 55032, Class A
			EN 300 386
			EN 55035
			VCCI CISPR 32, Class A

Specifications are subject to change without notice.
Contact our sales team for current configuration options.

S8901-54XC

Cloud &
Data Center
Solutions

S8901-54XC Front and Back Views



Front to Back Airflow

Back to Front Airflow

ACCESSORIES

Compatible Transceivers Types

25G SFP28 SR, 25G SFP28 LR, 25G SFP28 ER, 100G QSFP28 SR, 100G QSFP28 LR, 100G QSFP28 ER

Available to Order

Power Supply Types

PSU-401-DESR, 400W DC, exhaust air flow
PSU-401-DISB-1, 400W DC, intake air flow
PSU-401-AESR, 400W AC, exhaust air flow
PSU-401-AISB, 400W AC, intake air flow

Fan Types

FAN-402825-HD, exhaust air flow
FAN-402825-CD, intake air flow

