

## S7801-54XS

### Data Center ToR Switch

Next generation cloud service applications not only consume more data, it requires service providers to build more flexible, agile and scalable networks in order to meet the increasing demands of their customers. The S7801-54XS is a white box data center switch with open network capabilities. It is a high quality switch that provides data centers with a rich set of features, multiple protocol support, and run-time programmability, which will enable high switching performance in the most demanding environments. Designed with a small form factor and high-density configurations, the S7801-54XS can be positioned as a ToR (Top-of-Rack) or leaf switch to enable 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 10G + 6 x 100G service interfaces
- 1.28Tbps 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 100M/1/10G SFP+ 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

Storage 32GB SSD

ASIC Broadcom Trident3-X5 BCM56771

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 1RU, 440 x 440 x 43.8 mm or  
(WxDxH) 17.32" x 17.32" x 1.72"  
Weight: 8.9kg or 19.62lbs

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: 109 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 Storage temperature: -40°C to 70°C (-40°F to 158°F)  
Storage humidity: 5% to 95% (RH), non-condensing

## PERFORMANCE

Switching Capacity 1.28 Tbps

Packet Buffer 32 MB

## REGULATORY COMPLIANCE

Safety UL 62368-1 IEC 62368-1 EMC FCC Part 15, Subpart B, Class A  
VCCI CISPR 32, Class A

Environment WEEE

Specifications are subject to change without notice.

# S7801-54XS

Cloud &  
Data Center  
Solutions

## S7801-54XS Front and Back Views



Front to Back Airflow



Back to Front Airflow

## ACCESSORIES

### Compatible Transceivers Types

10G SFP+ SR, 10G SFP+ LR, 10G SFP+ 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

