Innovative Datacenter Switch

48 x 10GE SFP+ & 6 x 40GE QSFP+ Ports



High-density, datacenter optimized server switching.

The demand for bandwidth is ever increasing, requiring datacenters to continually enhance the density of their networking environments. The S7810-54QS switch is a datacenter-class 10GE/40GE switch product designed to meet customers' large capacity data switching needs with superior performance and unsurpassed reliability. By providing a high number of 10GE and 40GE ports in a single compact switch, the S7810-54QS makes automation and orchestration easier than ever, simplifying datacenter network infrastructure through its innovative architecture and extensive datacenter-ready features. With its low-latency, high-density ports, the S7810-54QS makes scale-out easy, giving datacenters unmatched flexibility to meet whatever demands the future may bring . Flexible, reliable, powerful - maximize your return on investment with the next-generation S7810-54QS.

Key applications

- High-density 10/40GE ToR server aggregation for high-performance datacenter environments.
- Enables cost-effective application of 10/40GE uplinks through small-scale implementation in Spine-Leaf networks.
- VXLAN/NVGRE capable hardware supporting virtual machine mobility.
- Extensive transition technologies for IPv4, IPv6, and dual stack management functions.
- 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 10GE SFP+ & 6 x 40GE QSFP+ 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.



Cloud & Data Center Solution

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Specifications

Physical

- Compact full featured modular 10GE/40GE datacenter switch
- 1 Mini USB serial console port with mini-USB to RJ45 converter cable
- 1 10/100/1000 Base-T Ethernet for Out-of-Band management
- 1 USB 2.0 Type-A port

Intel® Rangeley C2558 2.4G 4-Core **Processor**

DDR3 8GB w/ ECC SODIMM **Memory**

Storage M.2 SSD 64GB

Broadcom BCM56854 (Trident 2) **ASIC**

Total 10GE: 48 **Built-in Interfaces** Total 40GE: 6

Power, system, link & activity, fan & PSU status **LED**

Chassis 1 RU, 440w x 44h x 406d mm

(17.32" x 1.73" x 15.98")

Weight (including 2 x PSUs & 4 x fans):

9.68 kg (21.34 lb)

Two hot swappable power supplies with Redundancy

integrated fans and trays

Environmental

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

AC input: 100V-240V, 7-3.5A 60/50Hz **Power supply**

DC input: 240V, 2.75A (240Vdc China only)

Typical/Max power draw: 285/370 Watts

Specs.

Max. operating Operating temperature: 0°C to 45°C (32°F to 113°F) Operating humidity: 10% to 90% (RH), noncondensing

Max. non-operating Storage temperature: -40°C to 70°C (-40°F to 158°F)

Storage humidity: 5% to 95% (RH), non-condensing

Specs.

Performance

Switching Capacity

1440Gbps

Packet throughput 1070Mpps

Regulatory compliance

EMC 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

IEC/EN 60950-1/A2 Safety

BSMI (CNS 14336-1)

CCC (GB4943)

S7810-54QS Views





S7810-54QS rear view

Supported Accessories

10GE, SR SFP+ | 10GE, LR SFP+ **Transceiver**

40GE, SR4 QSFP+ | 40GE, LR4 QSFP+

10GE, SFP+ to SFP+, AOC | 10GE, SFP+ to SFP+, DAC Cable types

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

Power supply types CRPS550W-AC-FTB, 550W AC/DC PSU, airflow from panel to rear side (front to rear) CRPS550W-AC-BTF, 550W AC/DC PSU, airflow from rear to panel side (rear to front)

> Fan types Fan normal airflow from panel to rear side

> > Fan reverse airflow from rear side to panel

Fan spare supports normal and reverse airflow operations