LS3048-SN1 10G Top-of-Rack (TOR) Switch

10G TOR Switch for Data Center and Cloud Computing

Product Highlights

- High Density 10GbE System with 100/40GbE uplink
- X86 CPU Board Support
- Ultra-low Latency
- Maximum Layer 2 or Layer 3 forwarding of 2.16 Tbps
- Hot-swappable, Load-Sharing, redundant power supply
- 4 + 1 redundant, hot-swappable fan modules.
- ONIE Ready
- SONiC comply

Product Overview

The LS3048-SN1 is a switch of 48-Port 10GbE(SFP+) with 6-Port 100/40GbE QSFP28/QSFP+ suitable for TOR and Datacenter Application. It is ideally suited for deployment at the server access layer in large enterprise data centers, also designed for deployment at the core layer of data centers at medium-size enterprises. The switch designed with symmetric downlink and uplink bandwidth, without backplane bottleneck to keep the wired speed forwarding performance.

The huge benefit saves the space in the datacenter application with the maximum connectivity to the servers. It also features the best CP per 10G & 100G bandwidth and the best power consumption efficiency.

LS3048-SN1 is designed with flexible Redundant Power Supplies to fulfill different user scenarios. 400W RPUS for the most datacenter application is good enough to supply more than 220W for the application needs to connect with Fiber transceivers.
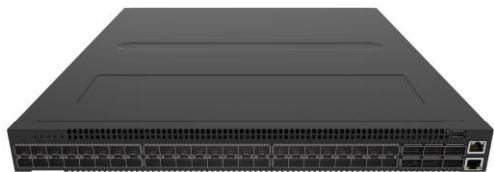
Best Performance

The LS3048-SN1 provides excellent performance as following :

- Line speed switching on all ports, with up to 2.16 terabits per second (Tbps).
- With a four-core CPU and 8 GB of DRAM, make the switch excellent for massively scalable data centers and big data applications.

High Availability

The LS3048-SN1 enables scaling of the server edge with 10GbE TOR deployments to new heights with high density 48-port solutions delivered in a 1RU design, the high server port density is formed by 100/40GbE QSFP28/QSFP+ uplinks to deliver the availability of required bandwidth for applications. The key features include :

- 1 + 1 Hot-swappable power supplies (400W)
- 4 + 1 Hot-swappable fan modules
- Reversible airflow (Front to back or Back to front)

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Product Specification

Description	Specification
Physical	• 48-port 10GbE SFP+ • 6-port 100GbE QSFP28 • 1 USB Type-A port • 1 RJ-45 Console Port • 1 RJ-45 Out-of-Band GbE Management Port
Performance	• Switch Fabric Capacity : 2.16Tbps (Full-Duplex) ; 1.08Tbps (Half-Duplex) • Packet Buffer Memory: 20MB • Switch Silicon : Nephos Taurus NP8363
CPU Board	• Memory : DDR4 8GB • CPU : Intel Denverton C3538 (4 Cores/2.1GHz) • Storage : BIOS 16MB * 2
Supported Optics	• SFP : 1000BASE-SX, 1000BASE-LX, 1000BASE-EX • SFP+ : 10GBASE-SR, 10GBASE-LR, 10GBASE-ER, 10GBASE-AOC (3, 5, 7, 10, 15, 20, 25, 30m lengths), 10GBASE-CR DAC cable (Passive cable up to 5m, Active cable up to 10m) • QSFP28 : 100GBASE-SR4, 100GBASE-LR4, 100GBASE-ER4, 100GBASE-CR4 (DAC cable (Passive cable up to 5m, Active cable up to 10m)
Mechanical	• Dimension (WxLxH) : 1RU, 441.5 x 470 x 44mm (17.38 in. x 18.50 in. x 1.73 in.) • Weight : 9 Kg
Environmental	• Operating Temperature : 0°C to 45°C • Storage Temperature : -20°C to 70°C • Operating Humidity : 5% to 95% (RH), non-condensing • Storage Humidity : 5% to 95% (RH), non-condensing
Electrical	• Power Requirement : 100~240VAC, 50/60Hz
Certification	• Safety : UL/CSA 60950; EN60950 • EMC : FCC Part 15 Class A; EN55022 Class A

About LITE-ON Networking

We are committed to providing customers and market with the professional products and services that drive productivity across applications. With long-term years of operations in Taiwan and China, our products and solution offer significant and diverse values to meet market requirements and advances in networking connectivity technology.