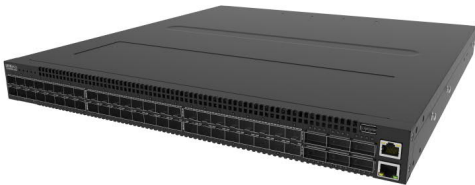


## LS4048-SB3 25G Top of Rack Switch



The Next Generation 25G ToR Switch for Data Center and Cloud Computing

### ◆ Product Highlights

- ◆ High Density 25G System
- ◆ Ultra-low Latency
- ◆ Maximum Layer 2 or Layer 3 forwarding of 3.6 Tbps
- ◆ Hot-swappable, Load-Sharing, redundant power supply
- ◆ 4 + 1 Redundant, Hot-swappable fan modules
- ◆ ONIE Ready



### Product Overview

The LS4048-SB3 is a switch of 48-Port 25GbE(SFP28) with 6-Port 100GbE(QSFP28) 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.

### Best 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 25G & 100G bandwidth and the best power consumption efficiency.

### High Availability

LS4048-SB3 is designed with flexible Redundant Power Supplies to fulfill different user scenarios. 400W RPUS for the most datacenter application is good enough to supply the more than 350W for the application needs to connect with Fiber transceivers.



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## Product Specification

Description	Specification
<b>Physical</b>	<ul style="list-style-type: none"> <li>• 48-port 25GbE SFP28</li> <li>• 6-port 100GbE QSFP28</li> <li>• 1 USB 2.0 Type-A USB port</li> <li>• 1 RJ-45 console port</li> <li>• 1 RJ-45 Out-of-Band GbE Management Port</li> </ul>
<b>Performance</b>	<ul style="list-style-type: none"> <li>• Switch fabric capacity: 3.6Tbps</li> <li>• Packet buffer memory: 32MB</li> <li>• Switch Silicon : BCM56873</li> </ul>
<b>Mechanical</b>	<ul style="list-style-type: none"> <li>• Dimension (WxLxH) : 1RU, 438 x 470 x 44mm (17.24 in. x 18.50 in. x 1.73 in.)</li> <li>• Weight : 9kg</li> <li>• Power Supply : 1+1 Hot-swappable 400W redundant power supplies</li> <li>• Cooling Fan : 4+1 Hot-swappable fan modules</li> <li>• Airflow : Front to back or Back to front</li> </ul>
<b>Environmental</b>	<ul style="list-style-type: none"> <li>• Operating Temperature : 0~45°C</li> <li>• Storage Temperature : -20°C to 75°C</li> <li>• Operating Humidity : 90% maximum relative humidity</li> <li>• Storage Humidity : 90% maximum relative humidity</li> </ul>
<b>Electrical</b>	<ul style="list-style-type: none"> <li>• Power requirement: 100~240VAC, 50/60Hz</li> </ul>
<b>Certification</b>	<ul style="list-style-type: none"> <li>• CE</li> <li>• FCC</li> </ul>
<b>L2 Features</b>	<ul style="list-style-type: none"> <li>• Flow control: IEEE 802.3x</li> <li>• Switching mode: store-and-forward</li> <li>• Spanning Tree Protocol (802.1w, &amp; 802.1s)</li> <li>• VLANs (802.1Q tagged based and port-based up to 4093)</li> <li>• QinQ</li> <li>• Storm control (Broadcast, Unknown multicast, Unknown unicast )</li> <li>• IGMP snooping</li> <li>• Ling Aggregation: LACP and Cisco EtherChannel Liked (load balance support)</li> </ul>

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<b>QoS</b>	<ul style="list-style-type: none"> <li>• Priority queues: 8 queues</li> <li>• Scheduling for priority queue: WRR, Strict and hybrid (WRR+Strict)</li> <li>• COS: 802.1p, IP Precedence, &amp; DSCP</li> <li>• DiffServ</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>• Static and dynamic port security (MAC-locking)</li> <li>• 802.1x: port-based, MAC-based, auto VLAN assignment, guest VLAN, unauthenticated VLAN</li> <li>• ACL: L2/L3/L4</li> <li>• IPv6 ACL: L3/L4</li> <li>• RADIUS &amp; TACACS+</li> <li>• SSH 1.5/v2.0</li> <li>• Local and remote authentication</li> <li>• DHCP snooping</li> <li>• IP Source Guard</li> <li>• Dynamic ARP inspection (DAI)</li> </ul>
<b>L3 Features IPv4*</b>	<ul style="list-style-type: none"> <li>• Multinetting</li> <li>• CIDR</li> <li>• Unicast routing               <ul style="list-style-type: none"> <li>- Static routes</li> <li>- OSPFv2</li> <li>- BGP4+</li> <li>- ECMP</li> </ul> </li> <li>• Multicast routing               <ul style="list-style-type: none"> <li>- PIM-SM</li> <li>- IGMP v1/v2/v3</li> </ul> </li> <li>• Redundancy : VRRP</li> <li>• DHCP Relay</li> </ul>
<b>L3 Features IPv6*</b>	<ul style="list-style-type: none"> <li>• IPv6 Unicast routing               <ul style="list-style-type: none"> <li>- Static routes</li> <li>- OSPFv3</li> <li>- BGP4+</li> <li>- ECMP</li> </ul> </li> <li>• Multicast routing               <ul style="list-style-type: none"> <li>- PIMv6-SM</li> <li>- MLD v1/v2</li> </ul> </li> <li>• DHCPv6 Relay</li> </ul>

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<b>Data Center Features</b>	<ul style="list-style-type: none"> <li>• PFC</li> <li>• ETS</li> <li>• DCBX</li> <li>• VXLAN (unicast mode)</li> <li>• Openflow (Version 1.0 and 1.3, Hybrid mode, Single table)</li> </ul>
<b>Management</b>	<ul style="list-style-type: none"> <li>• CLI/SNMP v1/v2c/v3</li> <li>• Telnet/SSH</li> <li>• Software and configuration file download/upload : TFTP/FTP/SCP/SFTP</li> <li>• Dual image supported</li> <li>• RMON 1, 2, 3 &amp; 9</li> <li>• DHCP : Client / Relay</li> <li>• Event/error log: local flash and remote server (RFC3164)</li> <li>• Remote PING</li> <li>• DNS Client</li> <li>• SNTPv4</li> <li>• LLDP (802.1ab)</li> <li>• UDLD</li> <li>• SPAN/RSPAN</li> <li>• sFlow v5</li> <li>• Auto-Installation</li> <li>• IPv6 management</li> </ul>

\* : Future Release

### 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.