

CSL3LB-04Q16XG-S

Layer 3 Lite Managed Ethernet Switch

16x10/100/1000M/2.5G/5G/10G RJ45, 4x40G QSFP+



Overview

CSL3LB-04Q16XG-S is a high-performance switch featuring 16 × 10G RJ45 ports and 4 × 40G ports, delivering powerful switching capacity and flexible networking options. It integrates comprehensive security control policies and CPU protection mechanisms to enhance fault tolerance, ensuring stable network operations and efficient link load balancing. The device supports automatic DoS attack prevention, as well as key industry protocols including SNMP, IEEE 802.1, Spanning Tree (STP), Rapid Spanning Tree (RSTP), and link aggregation, making it an ideal choice for scalable and reliable enterprise networks.

Features

Outstanding Performance

- 760 Gbps switching capacity with up to 565.44 Mpps packet forwarding

- Supports Ethernet/IEEE 802.3 packet sizes from 64 to 1522 bytes
- Jumbo frame supports up to 9216 bytes for efficient large-packet handling

Secure and Reliable

- Advanced protection against DoS/DDoS, spoofing, and virus attacks
- IEEE 802.1x port-based authentication for secure user access control
- Link aggregation and per-port host limitation for improved bandwidth utilization and redundancy
- Policy-based traffic shaping and control lists for fine-grained network management

Simplified Management

- Flexible management through Web interface, SNMP, and other standard methods
- Supports firmware and BootRom upgrades via TFTP, ZMODEM, or XModem

Advanced Traffic Control

- Automatic detection and suppression of broadcast storms
- IGMP snooping for efficient multicast and broadcast flood prevention
- Full-duplex/half-duplex flow control support
- Per-port bandwidth control in 1 Mbps increments for precise traffic shaping

Specifications

Model	CSL3LB-04Q16XG-S
Fixed Port	16*10G RJ45 Ethernet Ports 4*40G QSFP+ Fiber Ports 1*Console Port 1*OOB Management Port
Backplane Bandwidth	760Gbps
Forwarding Rate	565.44Mpps
Processor	Broadcom BCM56170 chip Integrated with high-speed Arm Cortex-A9 & embedded Cortex-R5 processor
Flash Memory	32MB
RAM Capacity	256M
MAC	32768
Layer 2 Management	
Port Configuration	Port Auto-Negotiation Flow Control Port Mirroring Traffic Statistics
Link Aggregation	Static Link Aggregation Load Balancing Link Backup Source/Destination MAC-Based Algorithm

	Source/Destination IP-Based Algorithm Dynamic Link Aggregation
MAC	Aging Time Configuration Dynamic MAC Address Management MAC Address Binding and Filtering Static MAC Address
VLAN	802.1Q Tagged VLAN MAC Address-Based VLAN Protocol-Based VLAN
Spanning Tree	802.1D Spanning Tree Protocol (STP) 802.1w Rapid Spanning Tree Protocol (RSTP) 802.1s Multiple Spanning Tree Protocol (MSTP)
ERPS	Ethernet Ring Protection Switching
LLDP	Link Layer Discovery Protocol
Multicast Management	IGMP v1/v2/ IGMP Snooping Fast Leave IGMP statistics
Layer 3 Management	
Static Routing	IPv4/6
RIP	RIPv1/2
RIPng	RIP for IPv6
OSPF	OSPF v1/2 for IPv4
OSPF6	OSPFv3 for IPv6
ISIS	ISIS
BGP	BGP+
PIM	SM/SSM
VRRP	V1/2 for IPv4 V3 for IPv6
QoS	4/8 Priority Queues Port-Based COS 802.1p-Based COS DSCP-Based COS Priority Rules: SP, WRR, SP+WRR Storm Control (Broadcast, Multicast, Unknown Unicast) Port and Traffic-Based Ingress/Egress Rate Limiting
Security	Port Security Port Isolation Loopback Detection Access Control List (ACL)

	Management Session Timeout
	IP-Based Web-GUI Access Restriction
Equipment Management	SNMP v1/v2c/v3
	Public MIBs
	SSH server
	Web-GUI (http/https):
	Telnet
	Firmware Web Page Upgrade
	Configuration Save and Upload
	DHCP Server
	ONVIF Discovery
IPv6	NTP Client
	Dual IPv4/IPv6 Stack
	Multicast Listener Discovery Protocol (MLD)
	IPv6 Neighbor Discovery (ND)
	Path Maximum Transmission Unit (MTU) Discovery
	Internet Control Message Protocol (ICMP) Version 6
	TCPv6/UDPv6: TCPv6/UDPv6
	Ping6
	Tracert6
	Telnet (v6)
	HTTP/HTTPS
	Static Routing
Maintenance	IPv6 TFTP (Trivial File Transfer Protocol)
	Diagnostic Tools
	System Logs
	Firmware Upgrade
	Configuration Backup and Restore
	Performance Monitoring
	Error Reporting
	Health Check
	Loopback Testing
Physical Characteristics	Traffic Testing
	Auto Recovery
Product Size	440x400x44mm
Power Supply	AC110 ~240V Adaptive, 47-63Hz, Supports Dual AC Power Supply (Optional)
Power Consumption	<130W
Indicator Light	Power Indicator, System Indicator
Operation Temperature	0°C~50°C
Storage Temperature	-40°C~70°C

Humidity	0-90% non-condensing
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Certificates	CE/FCC/RoHS
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Warranty	1 year
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Ordering Information

PART NO	DESCRIPTION
CSL3LB-04Q16XG-S	Layer 3 Lite Managed Ethernet Switch (Broadcom) 16x10/100/1000M/2.5G/5G/10G RJ45, 4x40G QSFP+



<https://www.lanaotek.com>



Specifications & design are subject to change without prior notice.

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