

CSL3LB-16X16XG-S

Layer 3 Lite Managed Ethernet Switch

16x10/100/1000M/2.5G/5G/10G RJ45, 16x10G SFP+



Overview

CSL3LB-16G16XG-S is a high-performance switch designed for next-generation enterprise and data center networks. It provides 16 × 10G RJ45 ports, 12 × 10G SFP+ ports, and 4 × 10/25G ports, delivering flexible deployment options and scalable bandwidth. With advanced security policies, CPU protection, link load balancing, and automatic DoS defense, the switch ensures stable and secure network operations. Supporting SNMP, IEEE 802.1 protocols, STP/RSTP, and link aggregation, the CSL3LR-16G16XG-S offers robust performance and reliability for demanding applications.

Features

High Performance

- 760 Gbps switching capacity with up to 565.44 Mpps forwarding
- Supports jumbo frames up to 9216 bytes for efficient large-packet transmission

- Flexible port configuration with 10G/25G adaptability

Secure and Reliable

- Built-in protection against DoS/DDoS, spoofing, and virus attacks
- IEEE 802.1x port-based authentication for secure access control
- Link aggregation and redundancy mechanisms for enhanced fault tolerance

Easy Management

- Intuitive Web, CLI, and SNMP management options
- Supports firmware and BootRom upgrades via TFTP, ZMODEM, or XModem
- Comprehensive policy control lists and traffic shaping tools

Advanced Traffic Control

- Automatic detection and suppression of broadcast storms
- IGMP snooping for efficient multicast management
- Precise bandwidth control with 1 Mbps rate limiting per port

Specifications

Model	CSL3LB-16X16XG-S
Fixed Port	16*10G RJ45 Ethernet Ports 16*10G SFP+ 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

NTP Client

IPv6	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

IPv6 TFTP (Trivial File Transfer Protocol)

Maintenance	Diagnostic Tools
	System Logs
	Firmware Upgrade
	Configuration Backup and Restore
	Performance Monitoring
	Error Reporting
	Health Check
	Loopback Testing
	Traffic Testing

Auto Recovery

Physical Characteristics

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
Certificates	CE/FCC/RoHS

Warranty

1 year

Ordering Information

PART NO	DESCRIPTION
CSL3LB-16G16XG-S	Layer 3 Lite Managed Ethernet Switch (Broadcom) 16x10/100/1000M/2.5G/5G/10G RJ45, 16x10G SFP+



<https://www.lanaotek.com>



Specifications & design are subject to change without prior notice.

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