CSL3R-02X02XG16MG-U-Z

Layer 3 Managed Ethernet Switch 16*10/100/1000/2500M RJ45,

2*1G/2.5G/5G/10G RJ45, 2*1G/10G SFP+

Overview

CSL3R-02X02XG16MG-U-Z is a layer 3 managed switch, designed for high-performance campus networks, data center access, and enterprise aggregation applications. It features 16 × 10/100/1000/2500 Mbps adaptive RJ45 ports, 2 × 1/2.5/5/10 Gbps RJ45 ports, and 2 × 10G SFP+ uplink ports, providing flexible multi-rate access and high-capacity uplinks. All RJ45 ports support auto MDI/MDIX and wire-speed forwarding.

The switch employs a store-and-forward architecture and incorporates advanced QoS technologies to ensure efficient bandwidth allocation across all ports. With a robust power design and reliable data transmission, it guarantees stable operation and consistent network performance under demanding workloads.

Features

- Input Voltage: AC100~240V, 50-60Hz
- Operating Temperature: -10°C to +50°C
- Cooling Method: Fan cooling
- Certification: CE / FCC / RoHS
- Anti-Static Protection: 8KV–15KV
- MTBF (Mean Time Between Failures): 100,000 hours
- Layer 3 Management

Specifications

Provider Mode Ports	
Fixed Port	16*10/100/1000/2500M RJ45 2*1G/2.5G/5G/10G RJ45, 2*1G/10G SFP+
Management Port	Support Console
Power Interface	AC Interface
LED Indicators	PWR, SYS, Link/ACT LED
Cable Type & Transmission Distance	
Twisted-pair	0-100m (CAT5e, CAT6)
Single Mode Fiber	20/40/60/80/100KM
Multimode Optical Fiber	550m
Network Topology	
Ring Topology	Support
Star Topology	Support
Bus Topology	Support
Tree Topology	Support
Hybrid Topology	Support
Electrical Specifications	
Input Voltage	AC100~240V 50/60Hz
Total Power Consumption	≤60W
Main Board Power	≤45W
Layer 2 Switching	
Switching Capacity	160Gbps
Packet Forwarding Rate	119.04Mpps
MAC Address Table	32K
Buffer	16M bit
Forwarding Delay	<10us
MDX/MIDX	Support
VLAN	4000
GVRP	Support
Protocol VLAN	Support
Voice VLAN	Support

Surveillance VLAN	Support
MAC VLAN	Support
EtherChannel/ 802 .3ad	Support
LACP	Support
Interface Speed	Support
Duplex Mode	Support
Flow Control	Support
Jumbo Frame	Support
DHCP Server	Support
DHCP Client	Support
DNS Client	Support
SNTP Client	Support
Port Statistics	Support
Protected Ports	Support
EEE	Support
ERPS (Ethernet Ring Protection Switching)	Support
LLDP	Support
LLDP 802.1 TLV	Support
MSTP/RSTP/STP	Support
STP BPDU Filter	Support
STP BPDU Guard	Support
STP Port Fast	Support
IGMP Snooping	Support
MLD Snooping	Support
MVR	Support
DHCP Interface Priority IP Binding	Support
Device Scan	Support
Layer 3 Route	
IPv4 Management Address	Support
IPv6 Management Address	Support
IPv4 Dynamic Routing	OSPF, RIP
Static Routes IPv6	Support

VRRP	Virtual Router Redundancy Protocol
ARP	Support
Loopback Interface	Support
Convergence	
ACL	Support MAC standard/expand ACL Support IPv4 standard/expand ACL Support IPv6 standard/expand ACL
QoS	Support QoS remarking Support port trust Support port rate limiting Support egress queue rate limiting Support SP (Strict Priority) and WRR (Weighted Round Robin) scheduling algorithms Support CoS mapping, DSCP mapping, and IP precedence mapping
Management	
User Management	Support
System Log	Support
Upgrade Firmware	Support
Configuration File Download/Upload	Support
SNMP	Support SNMP V1/V2/V3
WEB Management	Support
Console	Support
CLI	Support
Telnet/SSH	Support
RMON	Support
Security	
Management Channel Configuration	Support
AAA Authentication	Support
802.1X Authentication	Support
MAC-Based Authentication	Support
WEB-Based Authentication	Support
DoS Anti-attack	Support
Dynamic ARP Check	Support
DHCP Snooping	Support

IP Source Guard	Support
Port Security	Support
Protected Ports	Support
Storm Control	Support
Equipment Diagnosis	
Console Log	Support
RAM Log	Support
Flash Log	Support
Port Mirroring	Support 1:1 or M:1
Ping	Support
Traceroute	Support
DDM	Support
UDLD Protocol	Support
Environment	
Operating Temperature	-10°C~+50°C
Storage Temperature	-40°C~+75°C
Operating Humidity	10%~90% RH
Storage Humidity	5%~90% RH
Thermal Methods	Fan cooling
MTBF	100,000 hours
Mechanical Dimensions	
Product Size	440*280*44mm
Installation Method	Rack-mount
Weight	3KG
EMC & Ingress Protection	
Surge Protection of Power	Common mode 6 kV / Differential mode 2 kV
Surge Protection of Ethernet port	Common mode 4 kV / Differential mode 2 kV
ESD	±8 kV (contact), ±15 kV (air)
Free fall	0.5m
Certification	
Certificates	CE, FCC, RoHS
Warranty	1 year

Dimension

Rear View

Left View   Top View   Right View

280mm

440mm
44mm

Front View
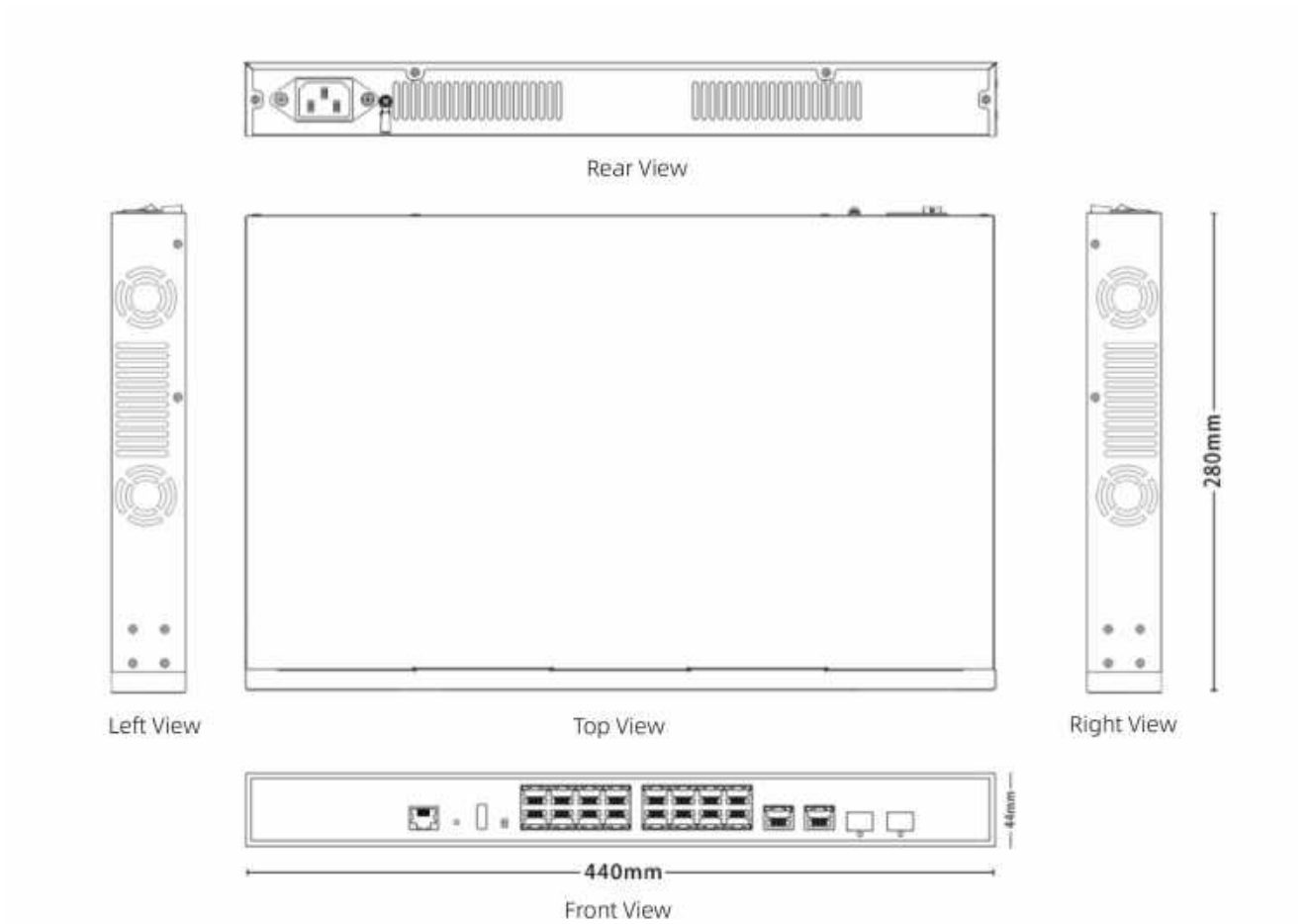
Ordering Information

PART NO.	DESCRIPTION
CSL3R-02X02XG16MG-U-Z	Layer 3 Managed Ethernet Switch (Realtek) 16*10/100/1000/2500M RJ45, 2*1G/2.5/5G/10G RJ45, 2*1G/10G SFP+ Internal Power Supply AC100~240V Support USB for Firmware Upgrade and Configuration Import/Export

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Specifications & design are subject to change without prior notice.

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