

# CSL3R-06X24MG-U-Z

Layer 3 Managed Ethernet Switch 24\*10/100/1000/2500M RJ45, 6\*1G/10G SFP+



## Overview

CSL3R-06X24MG-U-Z is a L3 managed switch, engineered to deliver high-performance connectivity for campus networks, data center access layers, and enterprise aggregation scenarios. It integrates 24 × 10/100/1000/2500 Mbps adaptive RJ45 ports and 6 × 10G SFP+ uplink ports, providing flexible multi-rate access and high-capacity uplinks. Each RJ45 port supports auto MDI/MDIX and wire-speed forwarding. Based on a store-and-forward switching architecture and enhanced with advanced QoS capabilities, the switch ensures efficient bandwidth utilization and optimized traffic handling. With a robust power design and reliable forwarding mechanism, it guarantees stable operation and consistent service delivery 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 24\*10/100/1000/2500M RJ45, 6\*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 240Gbps

Packet Forwarding Rate 178.56Mpps

MAC Address Table 32K

Buffer 16M bit

Forwarding Delay <10us

MDX/MIDX Support

VLAN 4000

GVRP Support

Protocol VLAN Support

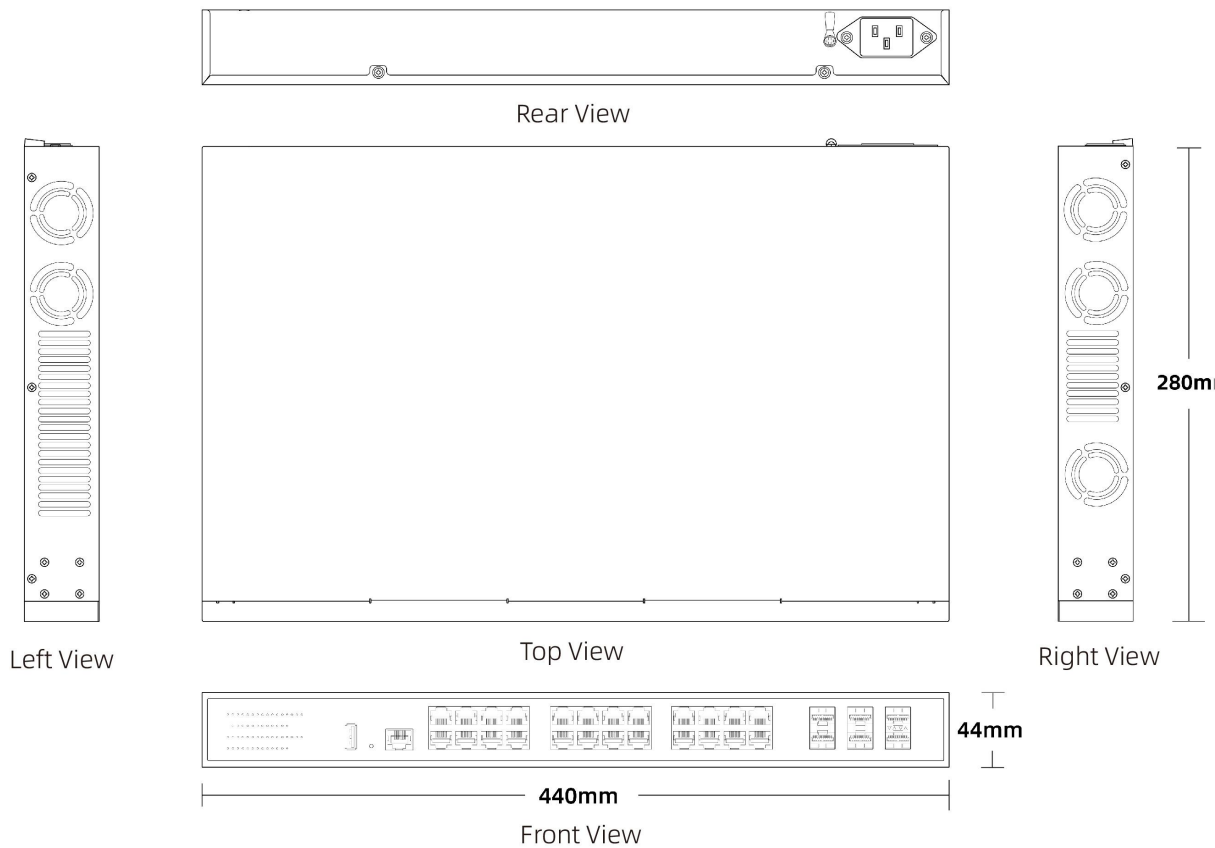
Voice VLAN Support

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
<b>Layer 3 Route</b>	
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
<b>Convergence</b>	
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
<b>Management</b>	
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
<b>Security</b>	
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
<b>Equipment Diagnosis</b>	
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
<b>Environment</b>	
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
<b>Mechanical Dimensions</b>	
Product Size	440*280*44mm
Installation Method	Rack-mount
Weight	3.3KG
<b>EMC &amp; Ingress Protection</b>	
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
<b>Certification</b>	
Certificates	CE, FCC, RoHS
Warranty	1 year

Dimension



Ordering Information

PART NO.	DESCRIPTION
CSL3R-06X24MG-U-Z	Layer 3 Managed Ethernet Switch (Realtek) 24*10/100/1000/2500M RJ45, 6*1G/10G SFP+ Internal Power Supply AC100~240V Support USB for Firmware Upgrade and Configuration Import/Export



<https://www.lanaotek.com>



Specifications & design are subject to change without prior notice.

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