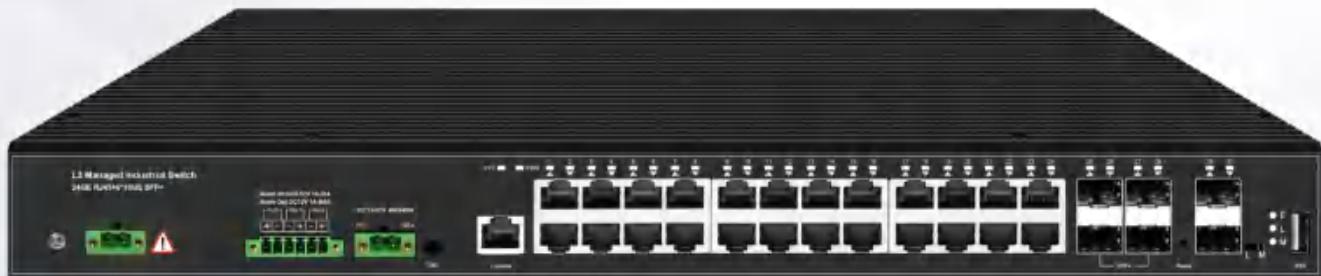


IRSL3R-06X24G-S

Industrial Rackmount Layer 3 Managed Switch

24Port 10/100/1000M RJ45, Uplink 6Port 10G SFP+

Redundant Dual Power Input AC100-240V and DC12-57V



Overview

IRSL3R-06X24G-S is a high-performance L3 Managed Rackmount Switch designed for reliable, scalable network deployments, featuring 24x10/100/1000M RJ45 access ports and 6x10Gbps SFP+ uplink ports. It supports dual redundant power inputs (AC100-240Vac/DC12-57V, max 35W each) and operates stably in extreme environments (-40°C~75°C operating temperature) with 6KV lightning protection and IP40 rating.

Equipped with 512MB FLASH, 512MB RAM, 168Gbps bandwidth, and 124.99Mpps packet forwarding rate, it ensures smooth data transmission. A key highlight is its comprehensive monitoring system—tracking real-time power metrics, temperature/humidity, and port status with customizable alarms—plus full SNMP support for integration into large network platforms. It is ideal for enterprise, industrial, or campus networks needing advanced L3 routing, robust security, and proactive management.

Features

- Ports & Interfaces: 2410/100/1000M RJ45, 610Gbps SFP+, 1 console port, 1 reset key; 2 alarm inputs, 1 alarm output (12V 1A), 1 temp/humidity sensor input; RTC (requires 3V-5032 battery).

- **Hardware & Performance:** 512MB FLASH/512MB RAM, 12Mbit SRAM buffer; 168Gbps bandwidth, 124.99Mpps forwarding rate; 16K MAC table, jumbo frames up to 12KB (16KB via features).
- **Power & Environment:** Dual redundant AC/DC input; operating temp -40°C~75°C, storage -45°C~80°C; 5%~90% RH (operating, non-condensing); 6KV lightning protection, IP40.
- **Transmission:** 10BASE-T (\leq 250m, Cat3-5), 100BASE-TX (\leq 150m, Cat5+), 1000BASE-TX (\leq 150m, Cat6+); SFP+ (\leq 120km, depends on module).
- **L3 & L2 Functions:** Static routes, RIP v1/v2, OSPFv2; 4K VLANs (802.1q/MAC/IP/protocol-based), QinQ; STP/RSTP/MSTP, EAPS, ERPS (G.8032).
- **Monitoring & Alarms:** Real-time voltage/current/power/temp/humidity detection; customizable alarms (port status, temp, alarm input triggers); SNMP integration.
- **QoS & Security:** 8 port queues (WRR/RR/WDRR/SP); IP/MAC/port binding, DHCP Snooping, 802.1x/RADIUS, ACLs; CPU attack protection.
- **Port Management:** Auto-negotiation, flow control, storm control; port mirroring, rate limiting; 32 link aggregation groups (8 ports/group).
- **Management:** CLI (Console/Telnet/SSH), WEB (HTTP/HTTPS), SNMP v1/v2c; RMON 1/2/3/9, cluster management (NDP/NTDP); config upload/upgrade.
- **Mechanical & Warranty:** 44020046mm (product), 55029594mm (packing); 3.15kg (N.W.)/3.66kg (G.W.); rack-mount (includes lugs); 1-year warranty (excl. accessories).
- **Certifications:** CE-EMC EN55032, CE-LVD EN62368, FCC Part 15 Class B, RoHS.

Specifications

Model	IRSL3R-06X24G-S
Network Port	24x10/100/1000M RJ45 Port, 6x10Gbps SFP+
Management Port	1xConsole, 1xReset
RTC	Support(need to install a 3V-5032 battery yourself)
Functional Interfaces	<p>Supports 2 sets of alarm input interface</p> <p>Supports 1 set of buzzer warnings</p> <p>Supports 1 set of alarm output interface (max output: 12V 1A)</p> <p>1 set of environmental temperature and humidity sensor input interfaces</p> <p>Unique exchange comprehensive monitoring interface:</p> <p>1: Real time detection and display of input voltage, current, and power</p> <p>2: Real time detection and display of system temperature, ambient temperature, and humidity</p> <p>3: Support multiple custom port controls and intelligent management</p> <p>4: Supporting port network as trigger conditions for alarm output</p> <p>5: Support alarm input as trigger condition for alarm output</p> <p>6: Support alarm input to connect network ports</p> <p>7: Support temperature and temperature as alarm linked network ports</p> <p>8: Fully functional support for SNMP nodes, easy access to large network monitoring platforms</p>
Featured Features	
Bandwidth	168Gbps
Packet Forwarding	124.99Mpps

MAC Address	16K
Buffer	12Mbit SRAM Packet Buffer
Jumbo Frames	Jumbo frame up to 12KB
	10BASE-T:Cat3,4,5 UTP(\leq 250 meter)
	100BASE-TX:Cat5 or later UTP(150 meter)
Transmission Distance	1000BASE-TX:Cat6 or later UTP(150 meter)
	SFP:10G single-mode multi-mode optical module, the maximum distance is \leq 120km (depending on the optical module)
FLASH	512M
RAM	512M
LED Indicator	PWR: power LED(Master power LED:yellow)(Slave power LED:green) SYS: SYS LED 1-24:link LED,1G speed LED 25-30:link LED,10G speed LED
Power Input	Dual power redundant input: 1:2P*5.08mm AC Input Built in power: AC100-240Vac 50-60Hz 0.4A MAX35W 2: 2P*5.08mm DC Input DC12-57V; MAX 3A ; MAX35W Power(only full network on): 30W
Use Environment	Operating temperature: -40°C-75°C Storage temperature: -45°C-80°C Operating humidity: 5%-90% RH Non coagulation Storage humidity: 5%-95% RH Non coagulation
Product/Packaging	Product Size:440mm*200mm*46mm
Size(L*W*H)	Package Size:550mm*295mm*94mm
N.W/G.W(kg)	3.15kg/3.66kg
Chassis Board	Base made of 1mm high-quality galvanized steel plate+ 3mm with added heat dissipation aluminum upper cover
Lightning Protection Level	6KV 8/20us; IP30
Installation	Rackmount
Certificate	CE-EMC EN55032;CE-LVD EN62368;FCC Part 15 Class B;RoHS;
Warranty	Whole device for 1 year(Accessories not included)
Port Shutdown	Support
Port Speed	Support autonegotiate, full-1000, full-100, half-100, full-10, half-10
Flow Control	support full-duplex IEEE 802.3x, half-duplex back pressure
Storm Control	Supports rate limit for broadcast, multicast, and DLF packets
Storm Constrain	Support the detection of broadcast packets, multicast packets, or unicast packets on the port, shutdown the port if the rate is over the threshold.

Port Mirror	Support
Port Rate Limit	Support port ingress and egress rate limit
Link Aggregation	<p>Support manual link aggregation</p> <p>Support LACP dynamic link aggregation</p> <p>Supports up to 32 aggregation groups, each group up to 8 ports</p> <p>Support source MAC, destination MAC, source destination MAC, source IP, destination IP, source destination IP routing strategy</p>
Port Isolate	Support
Jumbo Frame	Support up to 16KB packet
Redundant Port	Support
MAC	
MAC Table Capacity	16K
MAC Table Management	Support
Forwarding Mode	Support IVL forwarding mode
Static MAC Address	Support
MAC Address Binding	Support
MAC Address Filtering	Support
MAC Learning Control	Control the MAC learning based on port
VLAN	
Number of VLANs	4K
802.1q-Based VLAN	Support
MAC-Based VLAN	Support
IP-Based VLAN	Support
Protocol-Based VLAN	Support
Voice VLAN	Support
VLAN Mapping	Support 1:1 mapping
QinQ	<p>Support basic QinQ</p> <p>Support flexible QinQ</p>
Reliability	
Spanning Tree Protocol	Support STP/RSTP/MSTP
Port Loop Detection	Support
EAPS	Support
ERPS	Support G.8032/Y.1344

LLDP	Support LLDP & LLDP-MED
UDLD	Fully compatible with CISCO's UDLD protocol
VLLP(VRRP Layer-2 Loop Protection)	Support, Only used with VRRP
Layer 3 Function	
ARP	Support static and dynamic ARP
Static Route	Support
VLAN Interface	Support 32 VLAN interfaces
RIP	Support RIP v1/v2
OSPF	Support OSPFv2
Policy Route	Support
VRRP	Support
Multicast	
Static Multicast	
MAC Address	Support
IGMP SNOOPING	Support IGMP SNOOPING v1/v2/v3 Support IGMP Querier Support IGMP SNOOPING Filter
MVR	Support
GMRP	Support
ACL	
Standard IP-Based ACL	Support
Extended IP Based ACL	Support
MAC IP-Based ACL	Support
MAC ARP-Based ACL	Support
ACL Port Filtering	Support
Time-Based ACL	Support
QoS	
Port Queue Number	8
Port Queue Scheduling Mode	Support WRR,RR, WDRR, SP
Port-Based Classification	Support
802.1p-Based Classification	Support
DSCH-Based Classification	Support

ACL-Based Classification	Support Support packets mapping to queue Support COS or DSCP Remarking
QoS Policy	Support rate limits of data flow Support data flow statistics Support mirroring of data flow
DHCP	
DHCP Client	Support
DHCP Snooping	Support
DHCP Relay	Support
DHCP Server	Support
DHCP Option 82	Support
Management	
CLI Management	Support Console, TELNET and SSH
WEB Management	Support HTTP and HTTPS Support SNMP v1, v2c
SNMP Management	Support SNMP TRAP Support lots of standard and private MIBs
User Management	Support multiple user management
Log Management	Support local log management Support SYSLOG
RMON	Support RMON 1, 2, 3 and 9 groups
Cluster Management	Support NDP Support NTDP Support manual and automatic joining of cluster groups Support cluster unified management
Configuration File	Support uploading and downloading configuration file
Upgrade Software	Support
Clock Management	Support local clock management Support SNTP
Security	
Switch	Support enabling and disabling TELNET, WEB and SNMP services
Management Security	Support TELNET, WEB and SNMP services to bind to standard IP ACLs Support for limiting the number of TELNET connections
CPU Protection	The switch's own security protection prevents large data streams from attacking the switch itself.
AAA	Support 802.1x Support RADIUS

	Supports authentication, authorization, and accounting through RADIUS server Support port-based and MAC-based 802.1x Support 802.1x guest VLAN
IP MAC Binding	Support static configuration of IP, MAC and port binding
DHCP SNOOPING	Support dynamic ARP binding to prevent ARP spoofing Support dynamic IP, MAC and port binding Support fixed port to connect to DHCP server to prevent private connection to DHCP server
Prevent ARP Spoofing	Support manually configuring MAC ARP-based ACL rules to prevent ARP spoofing. Support the DHCP SNOOPING function. During the process of obtaining an IP address by DHCP, the switch dynamically binds ARP to the port to prevent ARP spoofing.
Debugging	
PING	Support
TRACEROUTE	Support
TELNET Client	Support TELNET client based IPv4 and IPv6

Ordering Information

PART NO	DESCRIPTION
IRSL3R-06X24G-S	Industrial Rackmount Layer 3 Managed Switch 24Port 10/100/1000M RJ45, Uplink 6Port 10G SFP+ Redundant Dual Power Input AC100-240V and DC12-57V



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Specifications & design are subject to change without prior notice.

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