L3 | Web, Console | 24 Ports 10GE SFP+ | 6 Ports 100GE/40GE QSFP28

PRODUCT OVERVIEW

The **RS-L3-24X-6Z** is a state-of-the-art enterprise-grade managed Layer 3 stackable switch, meticulously designed to address the complex demands of next-generation networking. This series is powered by advanced hardware architecture that delivers an impressive 1.7 Tbps high throughput, ensuring reliable and efficient operations across diverse network environments. The RS-L3-24X-6Z Series integrates sophisticated features such as 24 x 10GE SFP+ ports and 6 x 100GE/40GE QSFP28 ports, providing administrators with unparalleled flexibility and performance optimization.

The switch's robust feature set includes comprehensive management options (Console, Telnet, SSH v1/2, HTTP, HTTPS, SNMP v1/v2/v3, RMON, NTP, TFTP, SFTP) and advanced routing capabilities, including BGP, OSPF, RIP, IPv4/v6 dual stack, and MPLS Multi-VRF for enhanced routing flexibility. It also supports IPv6 Static Routing, RIPng, OSPFv3, BGP4+, ICMPv6, DHCPv6, ACLv6, and IPv6 Telnet, making it future-ready for evolving networking standards.

Security is a priority with features such as port isolation, "IP+MAC+port" binding, MAC sticky, DAI, IP source guard, and comprehensive protection against DDoS attacks, including TCP SYN Flood, UDP Flood, and unicast storm-control. The switch also ensures high reliability through VRRP, static/LACP link aggregation, BVSS virtual stacking, 1+1 power backup, URPF, ISSU, LLDP, EAPS, and ERPS.

The RS-L3-24X-6Z exemplifies our commitment to innovative design, offering a solution that meets the current networking needs while being equipped to handle future challenges. Its high throughput, multiple 10GE and 100GE ports, and advanced Layer 3 routing protocols make it ideal for top-of-the-rack or core switch deployments, providing unparalleled versatility and performance for complex networking environments.
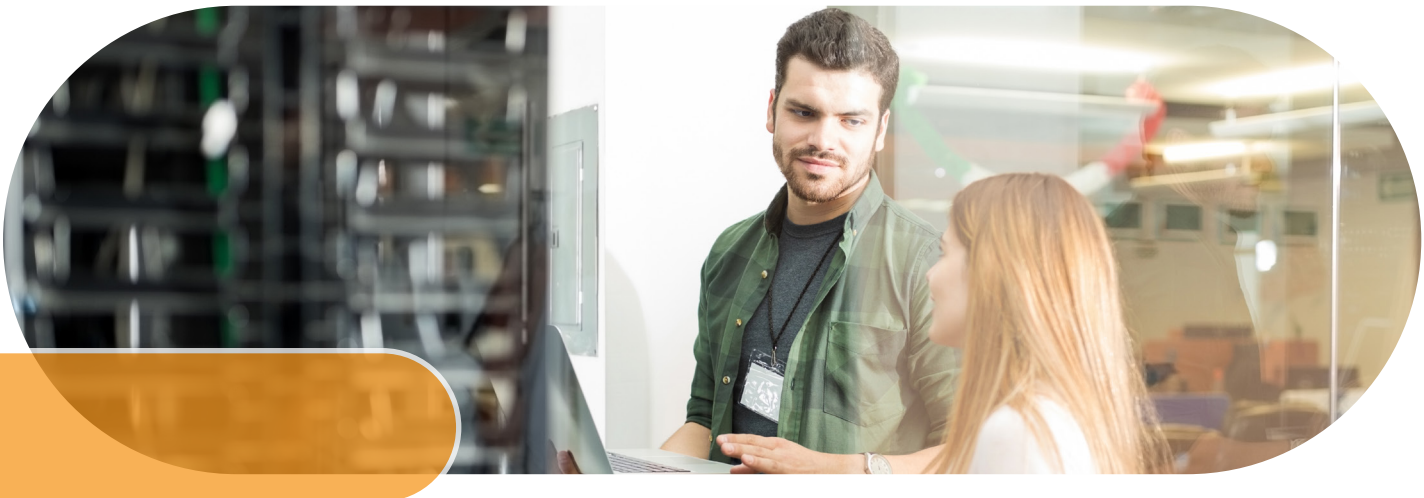
Key Features

- **Enterprise-Grade Core Layer 3 Switch.**
- RAY **RS-L3-24X-6Z** is a Core L3 new generation top of the rack switches, oriented for high-performance.
- computing, datacentres and high-end campuses. The core L3 Series adopts our most advanced hardware ar-chitecture designs.
    - › Rich Data Center Services.
    - › Industrial Ethernet Ring with Zero Delay and Zero Packet Loss.
    - › Telecom-Level Ethernet Switch.
    - › Flexible and Convenient Management and Maintenance.
    - › Carrier-Level QoS Policies.
    - › Versatile IPv6 Solutions.
    - › Perfect Security Mechanisms.
    - › Data Center Level High-reliability.
- **Port Con iguration:**
    - › 24 x 10GE SFP+ ports
    - › 6 x 100GE/40GE QSFP28 ports
- **High Throughput:** Delivers 1.7 Tbps throughput, supporting high-performance data center networking de-mands.
- **Management:** Supports Console, Telnet, SSH v1/2, HTTP, HTTPS, SNMP v1/v2/v3, RMON, NTP, TFTP, and SFTP.

Specifications:

INTERFACE	24 10GE/GE SFP+ PORTS, 6 100GE/40GE QSFP28 PORTS
CONSOLE(RJ45)	1 RJ45CONSOLE 1 Out Band Mgmt Port
BACKPLANE(Gbps)	1.7 Tbps
FORWARDING RATE (Mpps WITH 64 BYTES)	600
CHASSIS	
DIMENSIONS (WXDXH)(MM)	440X410X44
WEIGHT(KG)(EMPTY)	9.5
PACKAGE	
DIMENSIONS (WXDXH)(MM)	576X448X94
WEIGHT(KG)	10.8
POWER CONSUMPTION	
NO-LOAD	76W
FULL LOAD	245W
POWER SUPPLY	
Power Status Monitoring	AC: 100V-240V, 50Hz±10% (Hot-Swap) * 2 Support Internal and External Voltage Monitoring

TOTAL OUTPUT BTU (1000BTU/H=293W)	750
FAN NUMBER	4
NOISE@25°C(dBA)	70
MTBF(H)	> 200,000
FORWARDING MODE	Hop-by-Hop forwarding & End-to End forwarding
FLASH (MB)	1 GB
DRAM (MB)	2 GB
MAC	32 K
BUFFER SIZE(MB)	1.5
JUMBO FRAME	10k
Total SVI	1K
Routing table(ipv4) Routing table(ipv6)	16K 8k
ARP table	
IPv4	32K
IPv6	8K non-IPv6 Tunnel Start table entries 4K IPv6 Tunnel Start table entries

Product Features

VLAN

GVRP, PVLAN, Voice VLAN, VLAN Translation, Q-in-Q,

Subnet-based VLANs, Protocol-based VLANs, MAC-based VLAN

Spanning Tree

802.1D (STP)

802.1W (RSTP) and 802.1S (MSTP)

BPDU guard,root guard and loopback guard

MAC Address

Dynamic, static and black hole MAC address table entries, MAC address auto learning and aging, MAC address learning restrictions, Source MAC address filtering

Multicast

IGMP v1/v2/v3

IGMP Snooping, IGMP Fast Leave

Multicast VLAN, multicast traffic suppression

IGMP Fast Leave

MVR, IGMP filter

MLD Snooping v1/v2

PIM-DM, PIM-SM, PIM-SSM

IPV4

Static routing, RIP v1/v2

RIP, OSPF, BGP, PBR, ECMP

BFD for OSPF, BGP

IPv4/v6 dual stack

IPV6

ICMPv6, DHCPv6, ACLv6 and IPv6, Telnet
IPv6 neighbor discovery, Path MTU discovery
MLD V1/V2, MLD snooping
IPv6 Static Routing, RIPng, OSPFv3, BGP4+
Manual tunnel, ISATAP tunnel,6 to 4 tunnels

QoS

Port-based rate limiting for incoming and outgoing messages, Stream-based rate limiting, Class of Service (Based on port, source-destination MAC, source-destination IP, 802.1p, CoS, DSCP, IP Priority, Source-destination L4 port), Priority algorithm (WRR, SP, DSCP & CoS Mapping, Congestion avoidance mechanisms such as WRED, flow monitoring and traffic shaping, tail drop.

DHCP

DHCP Listening, DHCP Relay

Configuration Export/Import, DHCP (Client side, Option 82, Option 66, Option 67),

Security

Port isolation, Port security,and "IP+MAC+port" binding, MAC

Sticky DHCP Snooping and option82, DAI & IP source guard, PPPoE+

IEEE 802.1x, Radius and Tacacs+ L2/L3/L4 ACL flow identification and filtrationAnti-attack from DDoS, TCP's SYN Flood, UDP Flood, etc. Broadcast/multicast/unknown unicast storm-control

MD5, SHA-256, RSA-1024, AES256, etc.

HTTPs and SSL, SSH v1.5/v2.0,

Reliability

Static/LACP link aggregation,

Interface backup

BVSS virtual - stacking

EAPS and ERPS

URPF, LLDPISSU

VRRP

1+1 power backup

Management

Console, Telnet, SSH v1/2, HTTP

HTTPSSNMP v1/v2/v3, RMON (1,2,3 & 9)

TFTP, FTP, SFTP

NTP, SPAN, RSPAN

Event/Error Log (System Log), MAC (Serial Port, Out-of-Band Manage-ment Port, SNMP, HTTP/HTTPS, Telnet), Port Mirror, LLDP (IEEE802.1AB),LLDP-MED, UDLD, DNS Client, Traceroute, Ping, DDMI

(RFC2030), Power, Fan, Temperature Alarms

Environment

Operating temperature/humidity: 0°C to 40°C, 10%-90% non-condensing

Storage temperature/humidity: -40°C to 70°C, 5%-90%

Accessories

Power cord, rackmount kits, console cable

Warranty and Support

Essential	Premium
Available for 3 years	Available for 1,3,5 years
Tech Support for 90 Days	Advanced Replacement and NBD Shipping Available
	24*7 Email Tech Support

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