RAY

**L3 | Web, Console | 24 Ports 10GE SFP+ | 2 Ports 100GE/40GE QSFP28**

PRODUCT OVERVIEW

The **RS-L3-24X-2Z** 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 880 Gbps high throughput, ensuring reliable and efficient operations across diverse network environments. The RS-L3-24X-2Z Series integrates sophisticated features such as 24 x 10GE SFP+ ports and 2 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-2Z 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.
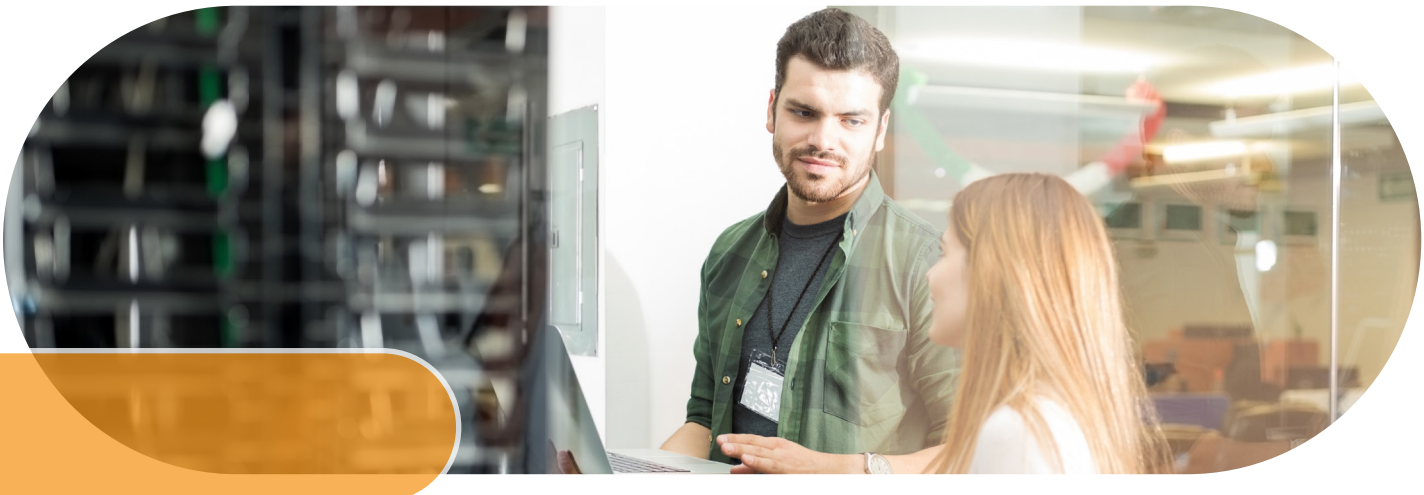
Key Features

- **Enterprise-Grade Core Layer 3 Switch.**
- RAY **RS-L3-24X-2Z** 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 architecture 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 Configuration:**
  - › 24 x 10GE SFP+ ports
  - › 2 x 100GE/40GE QSFP28 ports
- **High Throughput:** Delivers 800 Gbps throughput, supporting high-performance data center networking demands.
- **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, 4 100GE/40GE QSFP28 PORTS
CONSOLE(RJ45)	1 RJ45CONSOLE 1 Out Band Mgmt Port
BACKPLANE(Gbps)	880
FORWARDING RATE (Mpps WITH 64 BYTES)	660
CHASSIS	
DIMENSIONS (WXDXH)(MM)	440X300X44
WEIGHT(KG)(EMPTY)	6.1
PACKAGE	
DIMENSIONS (WXDXH)(MM)	576X448X94
WEIGHT(KG)	7.1
POWER CONSUMPTION	
NO-LOAD	45W
FULL LOAD	70W
POWER SUPPLY	
AC: 100V-240V,50/60Hz	2 (2 POWER SLOTS WITH 2 HOT-SWAP)

POE POWER BUDGET	SUPPORT
TOTAL OUTPUT BTU (1000BTU/H=293W)	238.91
FAN NUMBER	4
NOISE@25°C(dBA)	57
MTBF(H)	> 20,0000
FORWARDING MODE	Store - Forward
FLASH (MB)	4 GB
DRAM (MB)	2 GB
MAC	128 K
BUFFER SIZE(MB)	1.5
JUMBO FRAME	16k
Total SVI	1K
Routing table(ipv4) Routing table(ipv4)	16K 12k
ARP table	
IPv4	10K
IPv6	10K

Product Features

VLAN
4K Active VLAN, QinQ & Selective
QinQ, GVRP, Private VLAN, Voice VLAN

Spanning Tree
802.1D (STP)
802.1W (RSTP) and 802.1S (MSTP)
BPDU guard,root guard and loopback guard

Multicast
IGMP v1/v2/v3
IGMP Snooping
IGMP Fast Leave
IGMP Fast Leave
MVR, IGMP filter

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
CAR, HQoS, MAC/IP/TCP/UDP/VLAN/COS/DSCP/TOS based QoS
802.1P/DSCP priority re-labeling, SP,WRR, and "SP+WRR", Tail-Drop
WRED, flow monitoring and traffic shaping

Security
Port isolation, Port security, and "IP+MAC+port" binding, MAC
Sticky DHCP Snooping and option 82, 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/unknownunicast storm-control
MD5, SHA-256, RSA-1024, AES256, etc.

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
TFTP, FTP, SFTP
NTP, SPAN, RSPAN

Environment
Operating temperature/humidity: 0°C -50°C, 10%-90% non-condensing
Storage temperature/humidity:-20°C -70°C, 5%-95% noncondensing

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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