

# Sundray RS6300-50Q-EI-24X

## Product Overview

Sundray RS6300-50Q-EI-24X product is Sundray independent research and development of the next generation of intelligent switches. The next-generation intelligent switch adopts a new system architecture design. It can be managed on-line on the wireless AC in the same way as the thin AP mode. The plug-and-play smart-switch next generation smart switch can automatically discover the wireless AC in multiple ways. Through the wireless AC, the switch can be configured and managed, including port information, VLAN, and port opening and closing. Visual status can be checked through the wireless AC, including switch load, port forwarding load, online and offline switch status, and port open/close status. It also has more secure features than traditional switches, and it can be linked with wireless networks and security devices to implement more secure network management and control.

Sundray next-generation intelligent switch RS6300-50Q-EI-24X provides 24\*10G SFP+ optical ports, 24 Gigabit Ethernet Ports and 2\*40GE QSFP+, redundant power supply. RS6300 series switches are in the leading position among similar products, can meet the networking requirements of large-scale networks, and possess rich intelligence and security features. They are particularly suitable as access devices for large campus networks, enterprise networks, and IP metropolitan area networks.



RS6300-50Q-EI-24X



## Specification

### RS6300-50Q-EI-24X

<b>Specification</b>	
<b>Item</b>	RS6300-50Q-EI-24X
Dimensions	560mm×517mm×110mm
Weight	≤5.4KG
Default ports	24*10G SFP+, 24*GE, 2*40GE QSFP+
Management port	1*Console Port, 1*Manage Port
Redundant Power	Redundant AC Power 1+1 (Plug-and-Play) , Single Power 150w;
Work temperature Operating/storage humidity	Work temperature : -5 ℃ ~ 50 ℃ Storage temperature: -40 ℃ ~ 70 ℃ Work humidity: 5% ~ 95% RH Storage humidity: 5% ~ 90% RH
Working Layer	L2 & L3
Maximum Consumption	≤110w
Switch capacity	2.56Tbps/23.04Tbps
Packet forwarding rate	720Mpps
Access method	Support the integration of fat and thin, support intelligent switch and common switch two working modes, according to different networking needs, flexible at any time to switch
Switch zero configuration online	Layer 2 broadcast automatically discovers wireless AC Configure Static IP Address Layer 3 to discover wireless ACs DHCP Option 43 Discovers Wireless AC DNS Domain Name Discovery Wireless AC
One-click replacement	Replace the faulty device with a one-click in controller
STP	Support RRPP Ring Topology and RRPP Multiple Instances Support MSTP, MRPP, ERPS and so on Support ERPS Ethernet Ring Protection Protocol (G.8032) Support MSTP (IEEE 802.1s) protocol Support BPDU protection, root protection and loopback protection Support BPDU Tunnel
Multicast	Multicast≥4K Support IGMP v1/v2/v3 Snooping
VLAN	Support 4K VLAN Voice VLAN support Support GVRP agreement Support Private VLAN function



	Support MAC / protocol / IP subnet / policy / port based VLAN Supports 1: 1 and N: 1 VLAN Mapping features
EEE	Support IEEE 802.3az standard EEE energy-saving technology: When EEE is enabled, the power consumption of the port at this stage is greatly reduced, achieving energy saving.
ACL	Support standard IP ACL (IP address based hardware ACL) Extended IP ACL support (hardware ACL based on IP address, TCP / UDP port number) Supports MAC Extension ACL (Hardware ACL based on source MAC address, destination MAC address, and optional Ethernet type) Support based on time ACL Supports expert ACL (hardware ACL based on flexible combination of VLAN ID, Ethernet type, MAC address, IP address, TCP / UDP port number, protocol type and time)
802.1x	Support 802.1X authentication Supports port-based authentication and MAC-based authentication Support Guest VLAN Support TRUNK port authentication Supports dynamic delivery of VLANs based on 802.1x
QOS	Support port traffic identification Supports port traffic rate limit Support 802.1p / DSCP / TOS traffic classification 8 priority queues per port Support SP, WRR, SP + WRR, RED / WRED queue scheduling
MAC	Support 32K MAC address table Support MAC address automatic learning Support source MAC address filtering Support interface MAC address learning limit Support Configure MAC Address Aging Time
Port aggregation	Support port aggregation 128 Support manual and static LACP
High Availability	Support VRRP、 BFD for VRRP Support BFD for RIP/OSPF/Static Route/Route Policy Support Smartlink (Backup Link) Support Monitor-link (Uplink Status Monitoring)
Access Security	Support DHCP Relay、 DHCP Server、 Support DHCP Snooping Support Portal Authentication Support 802.1X Authentication Support Black/White List
Virtualization	Support vUnit (Stack Function, Virtualize Multiple devices to only one device) Support M-LAG

IPv4 Routing	Support IPV4 Static Route Support RIPv1/2、 OSPF IPv4 Dynamic Route Protocol Support Route Policy ARP Table≥16K
IPv6 Routing	Support IPV6 Static Route
Security feature	Support anti-gateway ARP spoofing Administrator hierarchical management Support SSH V2.0 Support port protection, isolation Support for preventing DOS and ARP attacks Support CPU Protection Support Edge Terminal Security Control
Network management	Support remote management through APP, and can modify switch network configuration Support remote management of intelligent switches across WAN and NAT Support SNMPv1/v2c/v3 Support SSH Support CLI Support WEB Management
Port Mirroring	Supports port-based bidirectional mirroring
Binding	Support IP-MAC-PORT-VLAN, support 4K
Visuality	Visualize traffic and terminal status, portray for security and devices. visual management of the switch through the web page of the controller.
Flow Control	Support ACL Support QoS
Switch portrait	Supports visual management of the switch through the web page of the controller, including port status and configuration of the switch, and vlan information. Supports the power on and off of the switch port through graphical operation of the controller
Safety & EMC	FCC、 CE: EN55022, EN61000-3-2, EN61000-3-3, EN55024, EN60950-1、 RoHS

## Order Information

Sundray Next Generation Smart Switch Series		
Item	Specification	Remark
RS6500-54Q-EI-48X	48*10G SFP+ optic ports, 6*40GE QSFP+. Switch capacity 2.56Tbps/40.96Tbps, Package rate 1080Mpps; Support full port line rate forwarding; Support NAC unified management.	Essential
OM-SFP+-10gigabit-multiple	10 Gigabit SFP+ multiple fiber optical module, 300m	optional

OM-SFP+-10gigabit-single-10KM	10 Gigabit SFP+ single fiber optical module, 10KM	optional
OM-SFP+-10gigabit-single-40	10 Gigabit SFP+ single fiber optical module, 40KM	optional
QSFP-40G-AOC-3M	QSFP+ 40G AOC cable, It consists of a 3 meter optical fiber and a 40 G optical module at each end.	optional
QSFP-40G-MM850-SR4	40G QSFP SR4 Fiber Module , Multiple , Maximum Transmission Distance 100m(OM-3)/150m(OM-4), LC	optional
QSFP-40G-SM1310-LR4-10KM	40G QSFP LR4 Fiber Module , Single, 1310nm, Maximum Transmission Distance 10km, LC	optional



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