

Sundray RS6500-54Q-EI-48X

Product Overview

Sundray RS6500-54Q-EI-48X 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 RS6500-54Q-EI-48X provides 48*10G SFP+ optical ports and 6*40GE QSFP+, dual-power(Redundant power supply). RS6500 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.



RS6500-54Q-EI-48X

Specification

RS6500-54Q-EI-48X

Specification	
Item	RS6500-54Q-EI-48X
Dimensions	473mm×442.5mm×43.95mm
Default ports	48*10G SFP+ optic ports, 6*40GE QSFP+
Management port	1*Console port, 1*Manage port
USB port	1*USB2.0 port
Working Layer	L2 & L3
Power	Redundant power supply design, ≤400w
Work temperature	Work temperature : -5 ℃ ~ 50 ℃
Operating/storage humidity	Storage temperature: -40 ℃ ~ 70 ℃ Work humidity: 5% ~ 95% RH Storage humidity: 5% ~ 90% RH
Switch capacity	2.56Tbps/40.96Tbps
Packet forwarding Rate	1080Mpps
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
Spanning tree	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



	<p>Support BPDU protection, root protection and loopback protection</p> <p>Support BPDU Tunnel</p>
Multicast	<p>Supports IGMP v1/v2/v3 Snooping and fast leave</p> <p>Support multicast forwarding and multicast multi-VLAN replication in a VLAN</p> <p>Multicast load balancing on bundled ports</p> <p>Support controllable multicast</p> <p>Support port-based multicast traffic statistics</p>
VLAN	<p>Support 4K VLAN</p> <p>Voice VLAN support</p> <p>Support GVRP agreement</p> <p>Support Private VLAN function</p> <p>Support MAC / protocol / IP subnet / policy / port based VLAN</p> <p>Supports 1: 1 and N: 1 VLAN Mapping features</p>
ACL	<p>Support standard IP ACL (IP address based hardware ACL)</p> <p>Extended IP ACL support (hardware ACL based on IP address, TCP / UDP port number)</p> <p>Supports MAC Extension ACL (Hardware ACL based on source MAC address, destination MAC address, and optional Ethernet type)</p> <p>Support based on time ACL</p> <p>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)</p>
802.1x	<p>Support 802.1X authentication</p> <p>Supports port-based authentication and MAC-based authentication</p> <p>Support Guest VLAN</p> <p>Support TRUNK port authentication</p> <p>Supports dynamic delivery of VLANs based on 802.1x</p>
QOS	<p>Support port traffic identification</p> <p>Supports port traffic rate limit</p> <p>Support 802.1p / DSCP / TOS traffic classification</p> <p>8 priority queues per port</p> <p>Support SP, WRR, SP + WRR, RED / WRED queue scheduling</p>



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.
MAC	Support 64K MAC address table Support MAC address automatic learning Support source MAC address filtering Support interface MAC address learning limit Support static, dynamic, blackhole MAC entries
Port aggregation	Support port aggregation 128 Support manual and static LACP
Access security	Support DHCP Relay, DHCP server Support DHCP snooping Support Portal authentication Support 802.1X authentication
IPv4 routing	Support static IPv4 routing Support RIPv1/2 OSPF Support Policy-based Routing
IPv6 routing	Support IPv6 static routing
DHCP	Support DHCP Server
ARP	ARP table ≥ 16000
M-LAG	Support M-LAG, Cross-device link aggregation
L3 function	Support static routing Routing table ≥ 16000
High Reliability	Support VRRP、 BFD for VRRP Support BFD for RIP/OSPF/Static routing/Policy-based Routing Support Smart-link Support Monitor-link
Port Mirroring	Support port mirroring
Flow control	Support ACL Support QoS
Security feature	Filtering illegal MAC addresses Support ARP-Check

	<p>Support ARP packet rate limiting</p> <p>Support anti-gateway ARP spoofing</p> <p>Support for broadcast storm suppression</p> <p>Administrator level management and password protection</p> <p>Support IP SOURCE GUARD</p> <p>Support port protection</p> <p>Support to prevent DOS, ARP attack function</p> <p>Support port isolation</p> <p>Support CPU protection</p> <p>Support blacklist and whitelist</p>
Visuality	Visualize traffic and terminal status, portray for security and devices. visual management of the switch through the web page of the controller.
Network management	<p>Support remote management through APP, and can modify switch network configuration</p> <p>Support remote management of intelligent switches across WAN and NAT</p>
Switch portrait	<p>Supports visual management of the switch through the web page of the controller, including port status and configuration of the switch, and vlan information.</p> <p>Supports the power on and off of the switch port through graphical operation of the controller</p>
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	Essential

	line rate forwarding; Support NAC unified management.	
OM-SFP-Gigabit-Multimode	Multimode fiber optical modules of the Gigabit SFP is 550m;	Optional
OM-SFP-Gigabit-Single-mode-10	Single-mode fiber optical module of the Gigabit SFP is 10 km;	Optional
OM-SFP-Gigabit-10kmSingle-mode-20	Single-mode fiber optical module of the Gigabit SFP is 20 km;	Optional
OM-SFP-Gigabit-Single-mode-40	Single-mode fiber optical module of the Gigabit SFP is 40 km;	Optional
OM-SFP-Gigabit-Single-mode-80	Single-mode fiber optical module of the Gigabit SFP is 80 km;	Optional
OM-SFP+-10gigabit-multiple	10gigabit SFP+multiple fiber optical module, 300m	Optional
OM-SFP+-10gigabit-single-10KM	10gigabit SFP+single fiber optical module, 10KM	Optional
OM-SFP+-10gigabit-single-40	10gigabit SFP+single fiber optical module, 40KM	Optional



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