Ruijie RG-S5300-24GT4XS-E
Datasheet

Product Overview

- The RG-S5300-24GT4XS-E is a next-generation gigabit Ethernet switch from Ruijie's RG-S5300-E series, designed for secure, efficient, and energy-saving network deployments.

- It provides 24 full gigabit access ports and 4 10G uplink ports, enabling flexible and high-speed connectivity for modern enterprise networks.

- Built on a new hardware architecture, the switch ensures faster processing and improved reliability for high-performance applications.

- Powered by Ruijie's modular RGOS12.X operating system, it supports scalable software features and streamlined system management.

- The switch is ideal for intelligent campus networks and enterprise access scenarios requiring high throughput and stability.

- With enhanced security, energy efficiency, and operational ease, the RG-S5300-24GT4XS-E meets the evolving demands of digital infrastructure.

Product Highlights

- **Full Gigabit Access:** Provides 24 gigabit Ethernet ports to meet high-speed connectivity demands in enterprise networks.

- **10G Uplink Capability:** Equipped with 4 x 10G SFP+ ports for uplink scalability and reliable data transmission..

- **Modular Operating System:** Powered by RGOS12.X for improved system performance, modularity, and ease of maintenance.

- **Enhanced Hardware Architecture:** Offers better processing power and higher resource capacity for scalable deployments.

Detailed Features

RG-S5300-24GT4XS-E

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Component	Specification
Switching Capacity	128 Gbps
Forwarding Rate	96 Mpps
Ports	24 × 10/100/1000Base-T, 4 × 10G SFP+ uplink ports
Layer 3 Routing	Supports static routing, RIP, OSPF, and BGP
Power Supply	AC input, built-in power supply, supports redundant power (optional models)

Advanced Hardware Platform and Modular OS

The RG-S5300-24GT4XS-E adopts a next-generation hardware architecture and Ruijie's modular RGOS12.X operating system. This design significantly enhances hardware processing capacity, system stability, and service scalability, ensuring long-term performance in demanding enterprise environments.

Full Gigabit Access with 10G Uplinks

The device offers 24 × 10/100/1000Base-T downlink ports and 4 × 10G SFP+ uplink ports, delivering full gigabit access and high-speed uplink transmission. It supports flexible deployment in access or aggregation layers, meeting the bandwidth requirements of high-traffic enterprise and campus networks.

Comprehensive Network Management

The RG-S5300-24GT4XS-E supports multiple network management protocols including SNMP, RMON, Syslog, and sFlow. It also enables USB-based configuration backup and offers flexible management interfaces such as CLI, Web UI, Telnet, and CWMP (TR-069), streamlining daily maintenance and monitoring.

Quick Status Detection with LED Mode Button

A dedicated LED Mode button allows users to easily check port communication or PoE status. This feature improves the visibility of real-time operations, making on-site troubleshooting faster and more efficient without needing remote console access.

Efficient PoE Power Modes

In PoE-enabled models of the series, users benefit from both automatic and energy-saving PoE modes. These intelligent power management features reduce overall energy consumption by dynamically adjusting power delivery based on device demands, enhancing operational efficiency.

Advanced Layer 3 Routing Capabilities

The switch supports a wide range of Layer 3 routing protocols, including static routing, RIP, OSPF, IS-IS, and BGP. This enables intelligent traffic forwarding and route optimization across complex enterprise networks, enhancing performance and network resilience.

Dual-Stack IPv4/IPv6 Line-Rate Switching

With built-in support for IPv4/IPv6 dual-stack switching at line rate, the device can handle diverse IP protocols concurrently. This capability ensures flexible deployment in hybrid networks and supports a smooth transition toward IPv6 infrastructure.

Comprehensive IPv6 Routing and Migration Support

Routing protocols such as RIPng, OSPFv3, IS-ISv6, and BGP4+ are fully supported, enabling the RG-S5300-24GT4XS-E to operate in native IPv6 or dual-stack environments. This readiness ensures long-term compatibility with evolving IP networks in enterprise and public sector deployments.

Technical Specifications

Product Specifications

Feature	Value
Product Model	RG-S5300-24GT4XS-E
Fixed Ports	24 × 10/100/1000M adaptive electrical ports, 4 × 1G/10G SFP+ ports
Power Slot	Not applicable (NA)
Switching Capacity	336 Gbps / 3.36 Tbps
Packet Forwarding Rate	95.23 Mpps
MAC Address Table Size	32K entries

Feature	Value
ARP Table Size	2000 entries
Routing Table Size	4000 entries (IPv4/IPv6)
ACL Entries	Ingress: 3,500; Egress: 1,500
VLAN	4K 802.1Q VLAN, port-based VLAN, MAC-based VLAN, Private VLAN, Voice VLAN, GVRP
Layer 2 Features	LLDP, LLDP-MED, LLDP-PoE, RLDP, IGMP Snooping (v1/v2/v3)
ACL	Standard IP ACLs, Extended IP ACLs, MAC-based extended ACLs, Time-based ACLs, Expert-level ACLs, 80 IPv6 ACLs, Global ACLs, ACL redirection
QoS	Port traffic identification and rate limiting, 802.1p/DSCP/ToS classification, 8 priority queues per port, SP, WRR, SP+WRR, RED/WRED queue scheduling
IP Routing Protocols	IPv4/IPv6 static routing, RIPv1/v2, RIPng, OSPFv2/v3, BGP, ISIS, Routing policy, MLD Snooping
IPv6 Basic Protocols	IPv6 addressing, Neighbor Discovery (ND), ICMPv6, IPv6 ping, IPv6 traceroute, IPv6 multicast
VSU Features	Supports 4-member virtual stack, local & remote stacking, inter-chassis link binding, virtualization via standard service interfaces
Dimensions (W × D × H)	442 mm × 220 mm × 43.6 mm
Power Supply	AC input: 100–240 V (Rated), 90–264 V (Max); 50/60 Hz
MTBF	>200,000 hours

Product Comparison

Feature	RG-S5300-24GT4XS-E	RG-S5310-24GT4XS-E	RG-S5310-24SFP4XS-E
Fixed Ports	24 × 10/100/1000Base-T + 4 × 1G/10G SFP+	24 × 10/100/1000Base-T + 4 × 1G/10G SFP+	24 × 1G SFP + 4 × 1G/10G SFP+
Switching Capacity	336 Gbps / 3.36 Tbps	336 Gbps / 3.36 Tbps	336 Gbps / 3.36 Tbps
Packet Forwarding Rate	95.23 Mpps	132 Mpps	132 Mpps
MAC Address Table	32K entries	64K entries	64K entries
Routing Table Size	4000 entries (IPv4/IPv6)	8000 entries (IPv4/IPv6)	8000 entries (IPv4/IPv6)
ARP Table Size	2000 entries	4000 entries	4000 entries
Power Slot	Not applicable (NA)	Not applicable (NA)	Not applicable (NA)
Redundant Power	Not supported	Supported	Supported

Feature	RG-S5300-24GT4XS-E	RG-S5310-24GT4XS-E	RG-S5310-24SFP4XS-E
Fan Design	Fixed, built-in	Removable fans	Removable fans
Management Features	CLI, SNMP, Web, Telnet	CLI, SNMP, Web, Telnet, sFlow, NQA	CLI, SNMP, Web, Telnet, sFlow, NQA
Dimensions (W × D × H)	442 × 220 × 43.6 mm	442 × 310 × 43.6 mm	442 × 310 × 43.6 mm
Weight	Approx. 3.5 kg	Approx. 4.1 kg	Approx. 4.2 kg
Port Type Advantage	Ideal for copper-based access	Enhanced copper access with higher spec	Full optical access with enhanced features
Application Scenario	Enterprise edge or access switching	Medium/large enterprise or aggregation	Aggregation/core layer in optical networks

Accessories

Category	Accessories
Included Accessories	- Power Cable
	- Mounting Bracket
	- Quick Installation Guide
Optional Accessories	- Rack Mount Kit: SP-RM-5300
	- SFP Transceivers: RG-SFP-LX-SM1310
	- Console Cable

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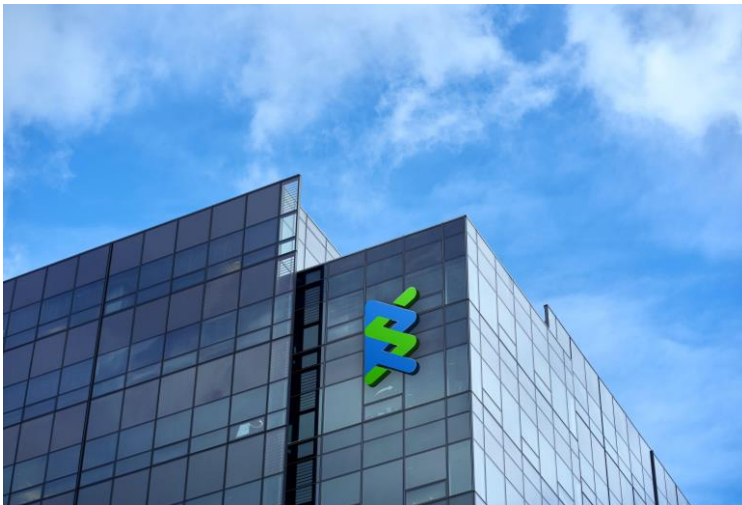
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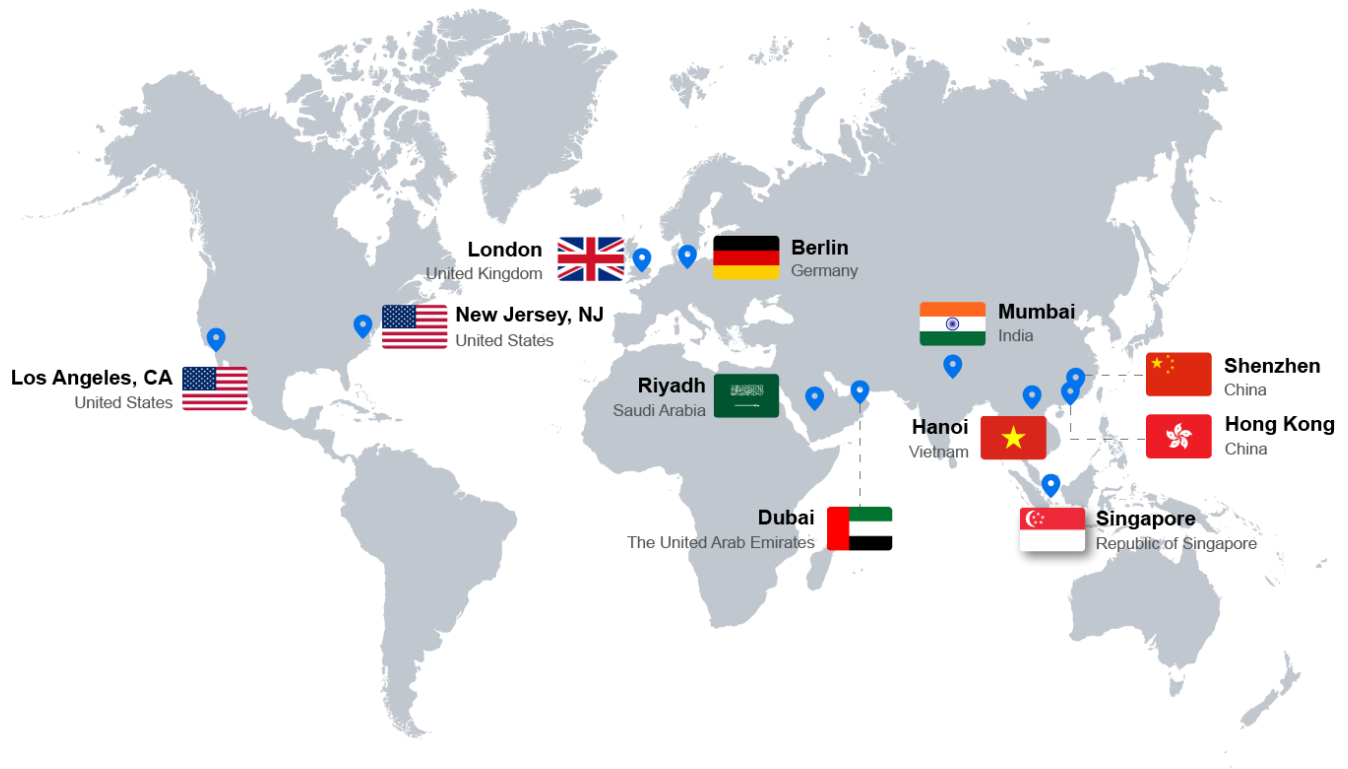**LinkedIn:** Router-switch.com
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References

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