Ruijie RG-S2910XS-E

Switch Series Datasheet

Ruijie RG-S2910XS-E is a collection of next-gen Gigabit switches architected for superior security, switch delivers Non-blocking / wire-speed, high performance and outstanding energy efficiency. The series delivers full Gigabit access and unparalleled scalability to 10G performance. With the all-new hardware architecture and Ruijie's latest RGOS11.X modular operating system, the RG-S2910XS-E switches offer larger table capacity, faster hardware processing performance and a better operation experience than anything previous. In addition, the PoE models in various specifications support all downlink ports running on PoE+ and fulfill high bandwidth demand of 10G uplink. The RG-S2910XS-E switches guarantee high-density user access and leading aggregation performance with ease.

HIGHLIGHTS

- Network Virtualization (VSU) Support
- Dynamic Network Protection (CPP and NFPP Technologies)
- Basic Layer 3 Routing Support
- Power Redundancy Support
- Full 48-Port PoE+ Support

RG-S2910-24GT4XS-E

RG-S2910-10GT2SFP-P-E

RG-S2910-48GT4XS-E

RG-S2910C-24GT2XS-P-E

RG-S2910C-24GT2XS-HP-E

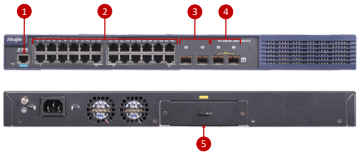
RG-S2910C-48GT2XS-HP-E

PRODUCT FEATURES

Premier Scalability

All the SFP+ and SFP ports in the RG-S2910XS-E series are backwards compatible with lower level modules. The PoE models complying with 802.3af and 802.3at standards offer dual modular power supplies, supporting PoE+ on all the downlink ports. With the diverse quantities of expansion slots, the RG-S2910XS-E series is scalable to various Gigabit fiber and copper port combinations for unparalleled expansion flexibility.

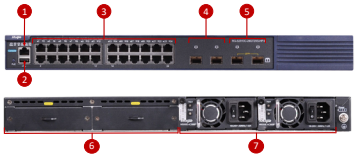
Hardware Highlights



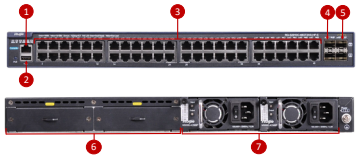
RG-S2910C-24GT2XS-P-E

Interfaces
1. Console Port
2. 24 10/100/1000BASE-T (PoE/PoE+) Ports
3. 2 100/1000BASE-X SFP Ports (Combo)
4. 2 1G/10GBASE-X SFP+ Ports (Non-combo)
5. 1 Expansion Slot

Interfaces
1. Console Port
2. USB 2.0 Port
3. 24 10/100/1000BASE-T (PoE/PoE+) Ports
4. 2 100/1000BASE-X SFP Ports (Combo)
5. 2 1G/10GBASE-X SFP+ Ports (Non-combo)
6. 2 Expansion Slots
7. 2 Modular Power Slots



RG-S2910C-24GT2XS-HP-E



RG-S2910C-48GT2XS-HP-E

Interfaces
1. Console Port
2. USB 2.0 Port
3. 48 10/100/1000BASE-T (PoE/PoE+) Ports
4. 2 100/1000BASE-X SFP Ports (Combo)
5. 2 1G/10GBASE-X SFP+ Ports (Non-combo)
6. 2 Expansion Slots
7. 2 Modular Power Slots

Comprehensive Protection Policies

ARP virus and attacks are common network threats with significant negative impacts. The RG-S2910XS-E series supports multiple anti-ARP spoofing modes. Whether users automatically retrieve address via the DHCP server or use a fixed IP address, the switches can still record the true user IP and MAC addresses. Upon receiving ARP packets from the host, the packets will be compared against the IP and MAC addresses in the record. Only verified ARP packets will be forwarded while those malicious ones will be discarded. The RG-S2910XS-E series fully protects network users from ARP spoofing intrusion.

The RG-S2910XS-E switches proactively defend against different kinds of DDOS attacks. Open networks are susceptible to viruses. Network devices and servers are also vulnerable under attacks by malicious network users. All these will affect normal network operation. Commonly found problems are: ARP flooding casing response failure in gateway; ICMP flooding overloading the network CPU; and DHCP flooding attacks resulting in deficiency in DHCP server address and failure to obtain user IP address for normal network access.

The RG-S2910XS-E switch series offers industry-leading CPU Protection Policy (CPP). The CPP technology diverges traffic to CPU into different packet flows and organizes them based on priority. Bandwidth speed control can also be implemented. The features offer full CPU protection against bandwidth taken up by rogue traffic, malicious attacks and resources consumption.

Users can also find Network Foundation Protection Policy (NFPP) readily available in the RG-S2910XS-E switches. The NFPP technology can limit the number of packets that users issue (including ARP, ICMP, DHCP packets). It can discard any packet that exceeds the limit threshold and even isolate malicious attacks for absolute network availability.

The switches also support DHCP snooping, allowing DHCP response only from the trusted ports to prevent DHCP server spoofing. Based on the DHCP protection feature, the switches can dynamically monitor ARP and check user's IP address. Packets inconsistent with the binding table will be labeled as rogue and hence discarded. The feature prevents attacks such as ARP spoofing and user source IP address spoofing.

Advanced Virtualization Technology

All the RG-S2910XS-E models support Virtual Switch Unit (VSU) technology. It enables interconnection of several physical devices and virtualizes them into one logical unit. The logical device uses one single IP address, Telnet process, command-line interface (CLI), and enables auto version checking and configuration. From the user perspective, there is only one device to be managed and yet user can visualize benefits offered by several devices. Work efficiency and user experience are hence greatly enhanced. The VSU technology also offers multiple benefits below:

- **Easy management**: Administrators can centrally manage all the devices at the same time. It is no longer necessary to configure and manage the switches one by one.
- **Simplified typology**: The VSU is regarded as one switch in the network. By connection of aggregation link and peripheral network devices, MSTP protocol is unnecessary as there is no Layer 2 loop network. All protocols operate as one switch.
- **Millisecond failover**: The VSU and peripheral devices connected via the aggregation link. Upon failure event of any device or link, failover to another member link requires only 50 to 200ms.
- **Exceptional scalability**: The network is hot swappable, any devices leaving or joining the virtualized network cause zero impact on other devices.
- **Investment protection**: The VSU is connected to the peripheral devices via an aggregation link, achieving link redundancy as well as load balancing. Such deployment fully utilizes all the network devices and bandwidth resources. A VSU virtualized network system can be easily constructed by using any 10GE ports and any types of cables. No extra

cables and expansion cards are required. And no restriction on the type of ports or cables. The RG-S2910XS-E series offers excellent investment protection for all Ruijie clients.

Carrier-class Reliability

The 802.1D, 802.1w and 802.1s Spanning Tree Protocols guarantee fast convergence and improves fault tolerance. These also maintain stable network operation and link load balancing. The feature ensures optimal network channel usage and improves redundant link utilization.

Virtual Router Redundancy Protocol (VRRP) is also available for network stability.

Another method to guarantee smooth network operation is Rogue Location Discovery Protocol (RLDP). The technology quickly detects link interruption and fiber link unidirectionality. It also prevents loop failure caused by connecting a hub or other devices to the port.

Ethernet Ring Protection Switching (ERPS) (G.8032) implements loop blocking and link recovery on the master device. Other devices directly report link status to the master device. Without passing through other standby devices, the failover time of loop interruption and recovery is hence faster than STP. The ERSP's link failover rate can be completed within milliseconds under ideal conditions.

With STP disabled, the basic link redundancy can still be maintained via Rapid Ethernet Uplink Protection Protocol (REUP). It enables even faster millisecond failover protection than that of the STP.

Software-defined Networking (SDN)

The RG-S2910XS-E switch series fully supports OpenFlow 1.3. It can fully collaborate with Ruijie's proprietary SDN controller to form a large-scale Layer 2 framework with ease. The feature ensures a smooth upgrade to SDN network. The RG-S2910XS-E series greatly simplifies the network management and minimizes deployment costs.

Energy Efficiency

Ruijie has put unswerving research effort in solving noise and energy consumption problems of conventional switches. The new RG-S2910XS-E switch series offers a total solution for such problems, providing a more quiet work environment and resolving heavy energy use caused by the deployment of a large number of devices.

The RG-S2910XS-E switches adopt next-gen hardware architecture with an advanced energy-saving circuit design and component selection. The switches offer an overall energy deduction of 40%+ for maximized cost savings. Noise pollution level is also greatly reduced. All models in the series deploy axial flow fans supporting speed adjustment. The fans enable intelligent temperature control based on current ambient temperature. The design totally ensures stable operation, and minimizes power consumption and noise level at the same time.

Under the environment of PoE power supply, the RG-S2910XS-E switches offer auto, energy-saving and static modes to deal with various deployment challenges.

The auto-power-down mode is another feature highlight. When an interface is down for a certain period of time, the system will automatically power down that interface for extra energy efficiency. The switch series also supports an EEE energy saving function. The system will automatically turn an idle port into energy-saving mode. The system will regularly issue listening streams to the port. It will resume service upon receiving a new packet.

The RG-S2910XS-E switch series complies with RoHS standards adopted by the European Union on restricting the use of hazardous materials in the manufacture process. The series also fulfills SJ/T 11363/11364/11365 standards.

Simple and Easy Network Maintenance

The RG-S2910XS-E switch series supports varieties of features such as SNMP V1/V2/V3, RMON, Syslog, SFLOW, and logs and configuration backup via USB for routine diagnosis and maintenance. The switch console port can be managed via Telnet / SSHv2, HTTP or HTTPS. Administrators can use a wide variety of methods for easier management and such include CLI, web management, Telnet, CWMP(TR069) zero configuration and so on.

TECHNICAL SPECIFICATIONS

Model	RG-S2910-24GT4XS-E	RG-S2910-48GT4XS-E	RG-S2910-10GT2SFP-P-E	RG-S2910C-24GT2XS-P-E	RG-S2910C-24GT2XS-HP-E	RG-S2910C-48GT2XS-HP-E
Ports	24 10/100/1000 BASE-T ports 4 1G/10GBASE-X SFP+ ports (non-combo)	48 10/100/1000 BASE-T ports 4 1G/10GBASE-X SFP+ ports (non-combo)	10 10/100/1000 BASE-T ports 2 100/1000 BASE-X SFP ports (non-combo)	24 10/100/1000 BASE-T ports (PoE/PoE+) 2 100/1000 BASE-X SFP ports (combo) 2 1G/10GBASE-X SFP+ ports (non-combo)	24 10/100/1000 BASE-T ports (PoE/PoE+) 2 100/1000 BASE-X SFP ports (combo) 2 1G/10GBASE-X SFP+ ports (non-combo)	48 10/100/1000 BASE-T ports (PoE/PoE+) 2 100/1000 BASE-X SFP ports (combo) 2 1G/10GBASE-X SFP+ ports (non-combo)
Expansion Slots	N/A	N/A	N/A	1	2	2
Modular Power Slots	N/A	N/A	N/A	N/A	2	2
Fan Slots	Fixed	Fixed	Fanless	Fixed	Fixed	Fixed
Expansion Modules	N/A	N/A	N/A	M2910-01XS M2910-01XT M2910-02XS M2910-04XS[1] M2910-02XT[2]	M2910-01XS M2910-01XT M2910-04XS[3]	M2910-01XS M2910-01XT M2910-04XS[4]
Management Ports	1 console port	1 console port	1 console port	1 console port	1 console port 1 USB 2.0 port	1 console port 1 USB 2.0 port
Switching Capacity	264Gbps	264Gbps	256Gbps	264Gbps	264Gbps	264Gbps
Packet Forwarding Rate	96Mpps	132Mpps	18Mpps	96Mpps	96Mpps	132Mpps
Max. Number of 10GE Ports	4	4	N/A	4	4	4
PoE	N/A		IEEE802.3af and 802.3at power supply standards; Automatic/energy-saving (default) power supply mode; Hot startup and uninterrupted power supply; Port priority; PoE devices support stacking			
Port Buffer	1.5MB					
RAM	512MB					
ARP Table	1,000	1,000	500	1,000	1,000	1,000
MAC Address	16K					
Routing Table Size (IPv4/IPv6)	500 (IPv4/IPv6)	500 (IPv4/IPv6)	64 (IPv4/IPv6)	500 (IPv4/IPv6)	500 (IPv4/IPv6)	500 (IPv4/IPv6)
ACL Entries	In: 1,500 Out: 500	In: 1,500 Out: 500	In: 750 Out: N/A	In: 1,500 Out: 500	In: 1,500 Out: 500	In: 1,500 Out: 500
VLAN	4K 802.1q VLANs, Port-based VLAN, MAC-based VLAN, Protocol-based VLAN, Private VLAN, Voice VLAN, QinQ, IP subnet-based VLAN, GVRP, Guest VLAN					
QinQ	Basic QinQ, Flexible QinQ, N:1 VLAN switching[5], 1:1 VLAN switching[6]					
Link Aggregation	AP, LACP (maximum 8 ports can be aggregated), Cross devices AP, Flow balance					
Port Mirroring	Many-to-one mirroring, One-to-many mirroring, Flow-based mirroring, Over devices mirroring , VLAN-based mirroring, VLAN-filtering mirroring, AP-port mirroring, RSPAN, ERSPAN # RG-S2910-10GT2SFP-P-E supports N:1/1:N port mirroring, Flow-based mirroring					
Spanning Tree Protocols	IEEE802.1d STP, IEEE802.1w RSTP, Standard 802.1s MSTP, Port fast, BPDU filter, BPDU guard, TC guard, TC protection, ROOT guard, Spanning Tree Root Guard (STRG)					

Note:

[1-6] Future release support

Model	RG-S2910-24GT4XS-E	RG-S2910-48GT4XS-E	RG-S2910-10GT2SFP-P-E	RG-S2910C-24GT2XS-P-E	RG-S2910C-24GT2XS-HP-E	RG-S2910C-48GT2XS-HP-E
DHCP	DHCP server, DHCP client, DHCP snooping, DHCP relay, IPv6 DHCP snooping, IPv6 DHCP client, IPv6 DHCP relay, DHCP Snooping Option 82					
Multiple Spanning Tree Protocol (MSTP) Instances	64					
Maximum Aggregation Port (AP)	128					
SDN	OpenFlow 1.0 & 1.3					
VSU (Virtual Switch Unit)	Support (up to 9 stack members to ensure the effectiveness of the use, 4 members are recommended), Local and distant stacking, Cross-chassis link aggregation in the stack, Stacking via 10G Ethernet ports # All models support the features above except RG-S2910-10GT2SFP-P-E					
SCN (Simplicity Campus Network)	Support establishing large L2 network with core devices and achieve resources pooling via VSU and VSD. Only management on core devices is required and hence simplifies horizontal and vertical network management and maintenance. # All models support the features above except RG-S2910-10GT2SFP-P-E					
Zero Configuration	CWMP(TR069)					
L2 Features	MAC, EEE, ARP, VLAN, Basic QinQ, Felix QinQ, Link aggregation, Mirroring, STP, RSTP, MSTP, Broadcast/ Multicast/Unknown unicast storm control, IGMP v1/v2/v3 snooping, IPv6 MLD Snooping v1/v2, IGMP SGVL/IVGL, IGMP querier, IGMP filter, IGMP fast leave, DHCP, Jumbo frame, RLDP, LLDP, LLDP-MED, REUP, G.8032 ERPS, Layer 2 protocol tunnel					
Layer 2 Protocols	IEEE802.3, IEEE802.3u, IEEE802.3z, IEEE802.3x, IEEE802.3ad, IEEE802.1p, IEEE802.1x, IEEE802.3ab, IEEE802.1Q (GVRP), IEEE802.1d, IEEE802.1w, IEEE802.1s					
Layer 3 Features	IPv4 static routing, RIP, IPv6 static routing, RIPng					
Layer 3 Protocols (IPv4)	Static routing, RIP					
IPv4 Features	Ping, Traceroute					
IPv6 Features	ICMPv6, IPv6 Ping, IPv6 Tracert, Manually configure local address, Automatically create local address					
Basic IPv6 Protocols	IPv6 addressing, Neighbor Discovery (ND), ICMPv6, IPv6 Ping and IPv6 Tracert					
IPv6 Routing Protocols	Static routing, RIPng					
G.8032	Support					
ACL	Standard/Extended/Expert ACL, Extended MAC ACL, ACL 80, IPv6 ACL, ACL logging, ACL counter, ACL remark, Global ACL, ACL redirect, Time-based ACL, Router ACL, VLAN ACL, Port-Based ACL					
QoS	802.1p/DSCP/TOS traffic classification; Multiple queue scheduling mechanisms, such as SP, WRR, DRR, SP+WFQ, SP+WRR, SP+DRR; Input / output port-based speed limit; Port-based traffic recognition; Each port supports 8 queue priorities; flow-based rate limiting with the minimum granularity of 8Kbps, Dynamic QoS					
IPv6 ACL	Support					
Reliability	VSU (virtualization technology for virtualizing multiple devices into 1); RIP GR; ERPS (G.8032);	VSU (virtualization technology for virtualizing multiple devices into 1); RIP GR; ERPS (G.8032);	RIP GR; ERPS (G.8032); REUP dual-link fast switching technology; RLDP (Rapid Link Detection	VSU (virtualization technology for virtualizing multiple devices into 1); RIP GR; ERPS (G.8032);	VSU (virtualization technology for virtualizing multiple devices into 1); RIP GR; ERPS (G.8032);	VSU (virtualization technology for virtualizing multiple devices into 1); RIP GR; ERPS (G.8032);

Model	RG-S2910-24GT4XS-E	RG-S2910-48GT4XS-E	RG-S2910-10GT2SFP-P-E	RG-S2910C-24GT2XS-P-E	RG-S2910C-24GT2XS-HP-E	RG-S2910C-48GT2XS-HP-E
Reliability	REUP dual-link fast switching technology; RLDP (Rapid Link Detection Protocol)	REUP dual-link fast switching technology; RLDP (Rapid Link Detection Protocol)	Protocol)	REUP dual-link fast switching technology; RLDP (Rapid Link Detection Protocol)	REUP dual-link fast switching technology; RLDP (Rapid Link Detection Protocol); 1+1 power redundancy; Hot-swappable power module	REUP dual-link fast switching technology; RLDP (Rapid Link Detection Protocol); 1+1 power redundancy; Hot-swappable power module
EEE Format	Support IEEE 802.3az standard					
Security	Binding of the IP address, MAC address, and port address; Binding of the IPv6, MAC address, and port address; Filter illegal MAC addresses; Port-based and MAC-based 802.1x; MAB; Portal and Portal 2.0 authentication; ARP-check; DAI; Restriction on the rate of ARP packets; Gateway anti-ARP spoofing; Broadcast suppression; Hierarchical management by administrators and password protection; RADIUS and TACACS+; Change of Authorization; AAA security authentication (IPv4/IPv6) in device login management; SSH and SSH V2.0; BPDU guard; IP source guard; CPP, NFPP; Port protection, CoA (RADIUS change of authorization), SCP (Secure Copy) Dynamic ARP Inspection(DAI)					
Manageability	SNMPv1/v2c/v3, CLI (Telnet / Console), RMON (1, 2, 3, 9), SSH, Syslog / Debug, NTP / SNTP, FTP, TFTP, Web, SFLOW, HTTP or HTTPS # RG-S2910-10GT2SFP-P-E supports SNMPv2c, CLI (Telnet / Console), Syslog, RMON (1, 2, 3, 9), Web					
Hot Patch	Support					
Smart Temperature Control	Auto fan speed adjustment; Fan malfunction alerts; Fan status check # All models support the features above except RG-S2910-10GT2SFP-P-E					
Smart Power Supply	N/A	N/A	N/A	Power management, Power monitoring	Power management, Power monitoring	Power management, Power monitoring
Other Protocols	FTP, TFTP, DNS client, DNS static					
Dimensions (W x D x H) (mm)	440 × 260 × 43.6	440 × 260 × 43.6	340 × 260 × 44	440 × 260 × 44	440 × 320 × 44	440 × 360 × 44
Rack Height	1RU					
Weight	≤3.5kg	≤4kg	≤2.5kg	5.8kg (gross weight)	5.8kg (gross weight)	6.8kg (gross weight)
MTBF (hours)	614844	511280	590278	361726	501032	451363
Lightning Protection	4KV	4KV	6KV	6KV	6KV	6KV
Power Supply	AC input: Rated voltage range: 100V to 240V AC Maximum voltage range: 90V to 264V AC Frequency: 50/60Hz Rated current: 1.5A HVDC input: Input voltage range:	AC input: Rated voltage range: 100V to 240V AC Maximum voltage range: 90V to 264V AC Frequency: 50/60Hz Rated current: 1.5A HVDC input: Input voltage range:	AC input: Rated voltage range: 100V to 240V AC Maximum voltage range: 90V to 264V AC Frequency: 50/60Hz Rated current: 2A HVDC input: Input voltage range:	AC input: Rated voltage range: 100V to 240V AC Maximum voltage range: 90V to 264V AC Frequency: 50/60Hz Rated current: 6A HVDC input: Input voltage range:	AC power (RG-M5000E-AC500P): Rated voltage range: 100V to 240V AC Frequency: 50/60Hz Rated current range: 7A to 3.5A HVDC input: Input voltage range:	AC power (RG-M5000E-AC500P): Rated voltage range: 100V to 240V AC Frequency: 50/60Hz Rated current range: 7A to 3.5A HVDC input: Input voltage range:

Model	RG-S2910-24GT4XS-E	RG-S2910-48GT4XS-E	RG-S2910-10GT2SFP-P-E	RG-S2910C-24GT2XS-P-E	RG-S2910C-24GT2XS-HP-E	RG-S2910C-48GT2XS-HP-E
Power Supply	192V to 290V DC Input current range: 0.5-0.1A	192V to 290V DC Input current range: 0.8A to 0.5A	192V to 290V DC Input current range: 1.0A to 0.4A	192V to 290V DC Input current range: 3.5A to 2.5A	192V to 290V DC Input current range: 3.5A to 2.5A DC power (RG-M5000E-DC500P): Rated voltage range: -36V to -72V DC Rated current: 16.5A AC power (RG-RG-PA1150P-F): Rated voltage range: 100V to 240V AC Frequency: 50/60Hz Rated current: 10A HVDC input: Input voltage range: 192V to 290V DC Rated current range: 10A	192V to 290V DC Input current range: 3.5A to 2.5A DC power (RG-M5000E-DC500P): Rated voltage range: -36V to -72V DC Rated current: 16.5A AC power (RG-RG-PA1150P-F): Rated voltage range: 100V to 240V AC Frequency: 50/60Hz Rated current: 10A HVDC input: Input voltage range: 192V to 290V DC Rated current range: 10A
Power Consumption	24W	50W	165W (with 8-port PoE or 4-port PoE+)	470W (with full PoE)	850W (with 24-port PoE+)	1700W (with 48-port PoE+)
PoE Power	N/A	N/A	125W	370W	RG-M5000E-AC500P: 370W RG-M5000E-DC500P: 370W RG-PA1150P-F: 740W	RG-M5000E-AC500P: 370W RG-M5000E-DC500P: 370W RG-PA1150P-F: 740W
Temperature	Operating temperature: 0°C to 50°C	Operating temperature: 0°C to 50°C	Operating temperature: 0°C to 45°C	Operating temperature: 0°C to 50°C	Operating temperature: 0°C to 50°C	Operating temperature: 0°C to 50°C
	Storage temperature: -40°C to 70°C					
Humidity	Operating humidity: 10% to 90%RH					
	Storage humidity: 5% to 95%RH					
Operating Altitude	-500m to 5,000m					

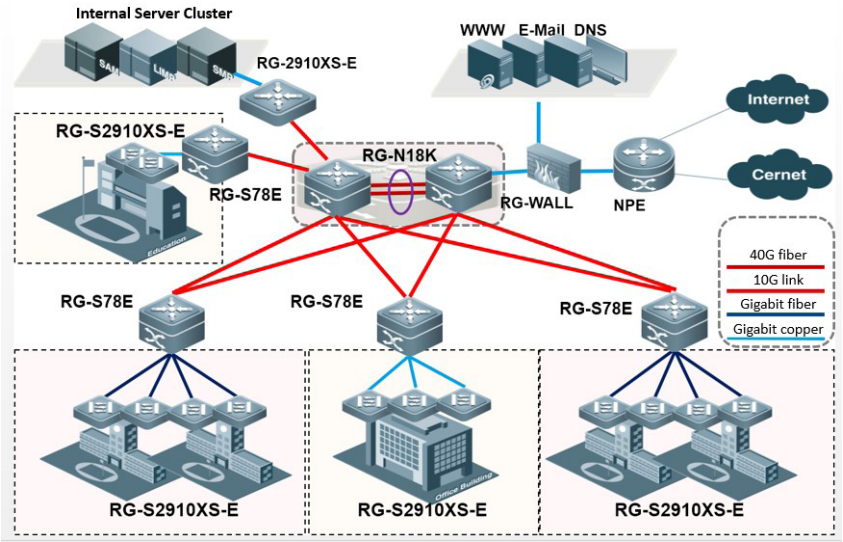
TYPICAL APPLICATION

The RG-S2910XS-E switch series features high security, efficiency and intelligence with superior energy-saving capacity. The series is suitable for the following scenarios:

- Full gigabit access to LANs of large-scale enterprises and institutions, such as government buildings, universities and large manufacturing/ energy/ metallurgy enterprises
- Full gigabit access to business systems, such as hospitals, libraries, exhibition centers and websites
- IP phones, WLAN access points and high-definition cameras access
- Full gigabit access to server clusters and 10G high-bandwidth uplink
- Secure access through flexible and diverse security control policies that can defend against network viruses and attacks

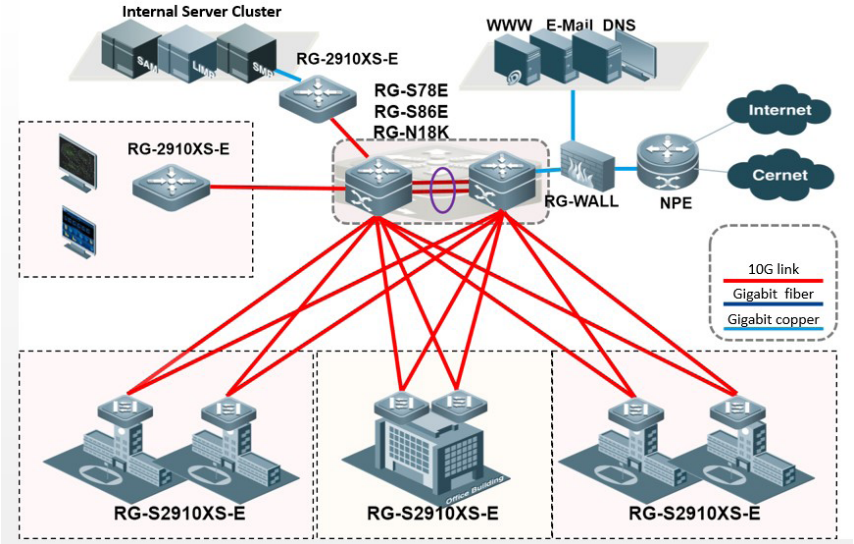
Scenario 1

The RG-S2910XS-E Series Switch is deployed with the RG-S5750E/P Series / the RG-S78E Series Aggregation Switches. Also teaming up the RG-N18K Series at the core, the deployment provides Gigabit Ethernet downlinks and 10 Gigabit Ethernet uplinks to meet the ever-increasing number of network nodes and demanding bandwidth requirements.



Scenario 2

The RG-S2910XS-E Series Switch can be deployed with RG-S78E Series/ RG-S86E Series/ RG-N18K Series to provide Gigabit Ethernet downlinks and 10 Gigabit Ethernet uplinks to the simplified core network architecture. Different combinations provide comprehensive coverage for network deployment of large, medium and small sizes. Not only does it simplify the network architecture, but also significantly enhances the stability and efficiency of the network system.



ORDERING INFORMATION

Model	Description
RG-S2910-24GT4XS-E	24 10/100/1000BASE-T Ports, 4 1G/10GBASE-X SFP+ Ports (non-combo), AC
RG-S2910-48GT4XS-E	48 10/100/1000BASE-T Ports, 4 1G/10GBASE-X SFP+ Ports (non-combo), AC
RG-S2910C-24GT2XS-P-E	24 10/100/1000BASE-T Ports (PoE/PoE+), 2 100/1000BASE-X SFP Ports (combo), 2 1G/10GBASE-X SFP+ Ports (non-combo), 1 Expansion Slot, AC
RG-S2910-10GT2SFP-P-E	10 10/100/1000BASE-T Ports, 2 100/1000BASE-X SFP Ports (non-combo), Port 1-8 support PoE/PoE+, AC
RG-S2910C-24GT2XS-HP-E	24 10/100/1000BASE-T Ports (PoE/PoE+), 2 100/1000BASE-X SFP Ports (combo), 2 1G/10GBASE-X SFP+ Ports (non-combo), 1 USB, 2 Expansion Slots, 2 Modular Power Slots, AC/DC
RG-S2910C-48GT2XS-HP-E	48 10/100/1000BASE-T Ports (PoE/PoE+), 2 100/1000BASE-X SFP Ports (combo), 2 1G/10GBASE-X SFP+ Ports (non-combo), 1 USB, 2 Expansion Slots, 2 Modular Power Slots, AC/DC
Optional Accessories	
M2910-01XS	1-Port 10G SFP+ Interface Module, for S2910XS PoE models
M2910-01XT	1-Port 10G copper Interface Module, for S2910XS PoE models
M2910-02XS	2-Port 10G SFP+ Interface Module, only for RG-S2910C-24GT2XS-P-E
*M2910-02XT	2-Port 10G copper Interface Module, only for RG-S2910C-24GT2XS-P-E *Planned for future support
*M2910-04XS	4-Port 10G SFP+ Interface Module, for S2910XS PoE models *Planned for future support
RG-M5000E-AC500P	AC Power Module, 370W Power Budget for PoE, up to 24 PoE ports or 12 PoE+ ports (only for RG-S2910C-24GT2XS-HP-E and RG-S2910C-48GT2XS-HP-E)
RG-M5000E-DC500P	DC Power Module, -32V to -72V DC input voltage, 370W Power Budget for PoE, up to 24 PoE ports or 12 PoE+ ports (only for RG-S2910C-24GT2XS-HP-E and RG-S2910C-48GT2XS-HP-E)
RG-PA1150P-F	AC Power Module, 740W Power Budget for PoE, up to 48 PoE ports or 24 PoE+ ports (only for RG-S2910C-24GT2XS-HP-E and RG-S2910C-48GT2XS-HP-E)
FE-SFP-LX-MM1310	100M Multimode Interface Module (2km)
FE-SFP-LH15-SM1310	100M Single-mode Interface Module (15km)
Mini-GBIC-GT	1000BASE-GT mini GBIC Transceiver
Mini-GBIC-SX-MM850	1000BASE-SX mini GBIC Transceiver (850nm)
Mini-GBIC-LX-SM1310	1000BASE-LX mini GBIC Transceiver (1310nm)
Mini-GBIC-LH40-SM1310	1000BASE-LH mini GBIC Transceiver (1310nm, 40km)
Mini-GBIC-ZX50-SM1550	1000BASE-ZX mini GBIC Transceiver (1550nm, 50km)
Mini-GBIC-ZX80-SM1550	1000BASE-ZX mini GBIC Transceiver (1550nm, 80km)
Mini-GBIC-ZX100-SM1550	1000BASE-ZX mini GBIC Transceiver (1550nm, 100km)
XG-SFP-SR-MM850	10GBASE-SR, SFP+ Transceiver, MM (850nm, 300m, LC)
XG-SFP-LR-SM1310	10GBASE-SR, SFP+ Transceiver (1310nm, 10km, LC)
XG-SFP-ER-SM1550	10GBASE-SR, SFP+ Transceiver (1550nm, 40km, LC)
GE-SFP-LX20-SM1310-BIDI	Gigabit SFP BIDI Transceiver (TX1310/RX1550, 20km, LC)
GE-SFP-LX20-SM1550-BIDI	Gigabit SFP BIDI Transceiver (TX1550/RX1310, 20km, LC)
GE-SFP-LH40-SM1310-BIDI	Gigabit SFP BIDI Transceiver (TX1310/RX1550, 40km, LC)
GE-SFP-LH40-SM1550-BIDI	Gigabit SFP BIDI Transceiver (TX1550/RX1310, 40km, LC)
XG-SFP-AOC1M	10GBASE SFP+ Optical Stack Cable (included both side transceivers) for S2910 and S5750-H Series Switches, 1m
XG-SFP-AOC3M	10GBASE SFP+ Optical Stack Cable (included both side transceivers) for S2910 and S5750-H Series Switches, 3m
XG-SFP-AOC5M	10GBASE SFP+ Optical Stack Cable (included both side transceivers) for S2910 and S5750-H Series Switches, 5m

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