

# Ruijie RG-S2910XS-E Switch Series Datasheet

Ruijie RG-S2910XS-E is a collection of next-gen Gigabit switches architected for superior security, 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

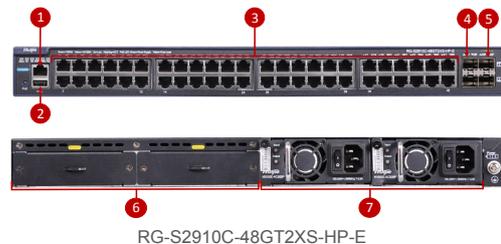


## PRODUCT FEATURES

### 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



### Interfaces

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

## 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 causing 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. 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-S2910C-24GT2XS-P-E   | RG-S2910C-24GT2XS-HP-E   | RG-S2910C-48GT2XS-HP-E   |
|---------------------|--|--|---|--|--|
| Ports               | 24 10/100/1000 BASE-T ports<br>4 1G/10GBASE-X SFP+ ports (non-combo)<br>AC | 48 10/100/1000 BASE-T ports<br>4 1G/10GBASE-X SFP+ ports (non-combo)<br>AC | 24 10/100/1000 BASE-T ports (PoE/PoE+)<br>2 100/1000BASE-X SFP ports (combo)<br>2 1G/10GBASE-X SFP+ ports (non-combo)<br>AC | 24 10/100/1000 BASE-T ports (PoE/PoE+)<br>2 100/1000BASE-X SFP ports (combo)<br>2 1G/10GBASE-X SFP+ ports (non-combo)<br>AC/DC | 48 10/100/1000 BASE-T (PoE/PoE+) ports<br>2 100/1000BASE-X SFP (combo) ports<br>2 1G/10GBASE-X SFP+ ports (non-combo)<br>AC/DC |
| Expansion Slots     | N/A  | N/A  | 1   | 2  | 2  |
| Modular Power Slots | N/A  | N/A  | N/A   | 2  | 2  |
| Fan Slots           | Fixed  | Fixed  | Fixed   | Fixed  | Fixed  |
| Expansion Modules   | N/A  | N/A  | M2910-01XS<br>M2910-01XT<br>M2910-02XS<br>M2910-04XS <sup>1</sup><br>M2910-02XT <sup>2</sup>                                | M2910-01XS<br>M2910-01XT<br>M2910-04XS <sup>3</sup>  | M2910-01XS<br>M2910-01XT<br>M2910-04XS <sup>4</sup>  |
| Management Ports    | 1 console port   | 1 console port   | 1 console port  | 1 console port<br>1 USB 2.0 port   | 1 console port<br>1 USB 2.0 port   |
| Switching Capacity  | 264Gbps  |  |   |  |  |

### Note:

<sup>1-4</sup> Future release support

| Model  | RG-S2910-24GT4XS-E   | RG-S2910-48GT4XS-E | RG-S2910C-24GT2XS-P-E  | RG-S2910C-24GT2XS-HP-E | RG-S2910C-48GT2XS-HP-E |
|--|--|--------------------|--|------------------------|------------------------|
| Packet Forwarding Rate                           | 96Mpps   | 132Mpps            | 96Mpps   | 96Mpps                 | 132Mpps                |
| Max. Number of 10GE Ports                        | 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  |                    |  |                        |                        |
| ARP Table  | 1,000  |                    |  |                        |                        |
| MAC Address                                      | 16K  |                    |  |                        |                        |
| IP Host Entries (IPv4/IPv6)                      | 500 (IPv4/IPv6)  |                    |  |                        |                        |
| ACL Entries                                      | In: 1,500<br>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  |                    |  |                        |                        |
| QinQ   | Basic QinQ, Flexible QinQ, N:1 VLAN switching <sup>5</sup> , 1:1 VLAN switching <sup>6</sup>   |                    |  |                        |                        |
| Link Aggregation                                 | AP, LACP, 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   |                    |  |                        |                        |
| Spanning Tree Protocols                          | IEEE802.1d STP, IEEE802.1w RSTP, standard 802.3s MSTP, Port Fast, BPDU Filter, BPDU Guard, TC Guard, TC Protection, ROOT Guard   |                    |  |                        |                        |
| DHCP   | DHCP server, DHCP client, DHCP snooping, DHCP relay, IPv6 DHCP snooping, IPv6 DHCP client, IPv6 DHCP relay   |                    |  |                        |                        |
| 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 <sup>7</sup> ), Local and distant stacking, Cross-chassis link aggregation in the stack, Stacking via 10G Ethernet ports  |                    |  |                        |                        |
| 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.              |                    |  |                        |                        |
| Zero Configuration                               | CWMP(TR069)  |                    |  |                        |                        |
| L2 Features                                      | MAC, EEE, ARP, VLAN, Basic QinQ, Felix QinQ, Link aggregation, Mirroring, STP, RSTP, MSTP, Broadcast storm control, IGMP v1/v2 snooping, IGMP filter, IGMP fast leave, DHCP, Jumbo frame, RLDP, LLDP, 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, IGMP snooping v1/v2  |                    |  |                        |                        |
| Layer 3 Features                                 | IPv4 static routing, RIP IPv6 static routing, RIPv6  |                    |  |                        |                        |
| 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  |                    |  |                        |                        |

**Note:**

<sup>5,6</sup> Future release support

<sup>7</sup> Future release support, latest models support up to 4 stack members.

| Model                       | RG-S2910-24GT4XS-E  | RG-S2910-48GT4XS-E  | RG-S2910C-24GT2XS-P-E   | RG-S2910C-24GT2XS-HP-E  | RG-S2910C-48GT2XS-HP-E  |
|-----------------------------|---|---|---|---|---|
| Basic IPv6 Protocols        | IPv6 addressing, Neighbor Discovery (ND), ICMPv6, IPv6 Ping and IPv6 Tracert  |   |   |   |   |
| IPv6 Routing Protocols      | Static routing, RIPng   |   |   |   |   |
| Multicast                   | IGMP v1, v2,V3 Snooping; IGVL model, GMP filter and IGMP fast leave   |   |   |   |   |
| 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  |   |   |   |   |
| 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  |   |   |   |   |
| IPv6 ACL                    | Support   |   |   |   |   |
| Reliability                 | VSU (virtualization technology for virtualizing multiple devices into 1); RIP GR; ERPS (G.8032); REUP dual-link fast switching technology; RLDP (Rapid Link Detection Protocol)   | VSU (virtualization technology for virtualizing multiple devices into 1); RIP GR; ERPS (G.8032); REUP dual-link fast switching technology; RLDP (Rapid Link Detection Protocol) | VSU (virtualization technology for virtualizing multiple devices into 1); RIP GR; ERPS (G.8032); REUP dual-link fast switching technology; RLDP (Rapid Link Detection Protocol) | VSU (virtualization technology for virtualizing multiple devices into 1); RIP GR; ERPS (G.8032); REUP dual-link fast switching technology; RLDP (Rapid Link Detection Protocol); 1+1 power redundancy; Hot-swappable power module | VSU (virtualization technology for virtualizing multiple devices into 1); RIP GR; ERPS (G.8032); 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; DA; Restriction on the rate of ARP packets; Gateway anti-ARP spoofing; Broadcast suppression; Hierarchical management by administrators and password protection; RADIUS and TACACS+; AAA security authentication (IPv4/IPv6) in device login management; SSH and SSH V2.0; BPDU guard; IP source guard; CPP, NFPP; Port protection |   |   |   |   |
| Manageability               | SNMPv1 / v2C / v3, CLI (Telnet / Console), RMON (1, 2, 3, 9), SSH, Syslog/Debug, NTP / SNTP, FTP, TFTP, Web, SFLOW  |   |   |   |   |
| Hot Patch                   | Support   |   |   |   |   |
| CWMP                        | Support   |   |   |   |   |
| Smart Temperature Control   | Fan speed auto-adjustment; Fan malfunction alerts; Fan status check   |   |   |   |   |
| Smart Power Supply          | 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 × 200 × 44  | 440 × 200 × 44  | 440 × 260 × 44  | 440 × 200 × 44  | 440 × 260 × 44  |
| Rack Height                 | 1RU   |   |   |   |   |
| Weight                      | ≤3.5kg  | ≤4kg  | 5.8kg (gross weight)  | 5.8kg (gross weight)  | 6.8kg (gross weight)  |
| MTBF                        | >200K hours   |   |   |   |   |
| Lightning Protection        | 4KV   | 4KV   | 6KV   | 6KV   | 6KV   |

| Model                 | RG-S2910-24GT4XS-E   | RG-S2910-48GT4XS-E   | RG-S2910C-24GT2XS-P-E  | RG-S2910C-24GT2XS-HP-E  | RG-S2910C-48GT2XS-HP-E  |
|-----------------------|--|--|--|---|---|
| Power Supply          | AC input:<br>Rated voltage range: 100V to 240V AC<br>Maximum voltage range: 90V to 264V AC<br>Frequency: 50Hz to 60Hz<br>Rated current: 1.5A<br>HVDC input:<br>Maximum voltage range: 192V to 290V DC<br>Rated current: 0.5-0.1A | AC input:<br>Rated voltage range: 100V to 240V AC<br>Maximum voltage range: 90V to 264V AC<br>Frequency: 50Hz to 60Hz<br>Rated current: 1.5A<br>HVDC input:<br>Maximum voltage range: 192V to 290V DC<br>Rated current: 0.5-0.1A | AC input:<br>Rated voltage range: 100V to 240V AC<br>Maximum voltage range: 90V to 264V AC<br>Frequency: 50Hz to 60Hz<br>Rated current: 1.5A<br>HVDC input:<br>Maximum voltage range: 192V to 290V DC<br>Rated current: 0.5-0.1A | AC input:<br>AC power (RG-M5000E-AC500P):<br>Rated voltage range:100-240V AC<br>Frequency: 50/60Hz<br>Rated current: 7-3.5A<br>HVDC Input:<br>Rated voltage range: 192-290VDC<br>Rated current range: 3.5A-2.5A<br>AC power (RG-RG-PA1150P-F):<br>Rated voltage range:100-240V AC<br>Frequency: 50/60Hz<br>Rated current: 10A<br>HVDC Input:<br>Rated voltage range: 192-290VDC<br>Rated current range: 10A<br>DC power (RG-M5000E-DC500P)<br>Rated voltage range: -36V DC ~ -72V DC<br>Rated current:16.5A | AC input:<br>AC power (RG-M5000E-AC500P):<br>Rated voltage range:100-240V AC<br>Frequency: 50/60Hz<br>Rated current: 7-3.5A<br>HVDC Input:<br>Rated voltage range: 192-290VDC<br>Rated current range: 3.5A-2.5A<br>AC power (RG-RG-PA1150P-F):<br>Rated voltage range:100-240V AC<br>Frequency: 50/60Hz<br>Rated current: 10A<br>HVDC Input:<br>Rated voltage range: 192-290VDC<br>Rated current range: 10A<br>DC power (RG-M5000E-DC500P)<br>Rated voltage range: -36V DC ~ -72V DC<br>Rated current:16.5A |
| Power Consumption     | 24W  | 50W  | 470W (with full PoE)   | 850W (with 24-port PoE+)  | 1700W (with 48-port PoE+)   |
| PoE Power Consumption | N/A  | N/A  | 370W   | RG-M5000E-AC500P: 370W<br>RG-M5000E-DC500P: 370W<br>RG-PA1150P-F: 740W  | RG-M5000E-AC500P: 370W<br>RG-M5000E-DC500P: 370W<br>RG-PA1150P-F: 740W  |
| Temperature           | Operating temperature: 0°C to 50°C<br>Storage temperature: -40°C to 70°C   |  |  |   |   |
| Humidity              | Operating humidity: 10% to 90%RH<br>Storage humidity: 5% to 95%RH  |  |  |   |   |
| Operating Altitude    | -500M to 5,000M  |  |  |   |   |

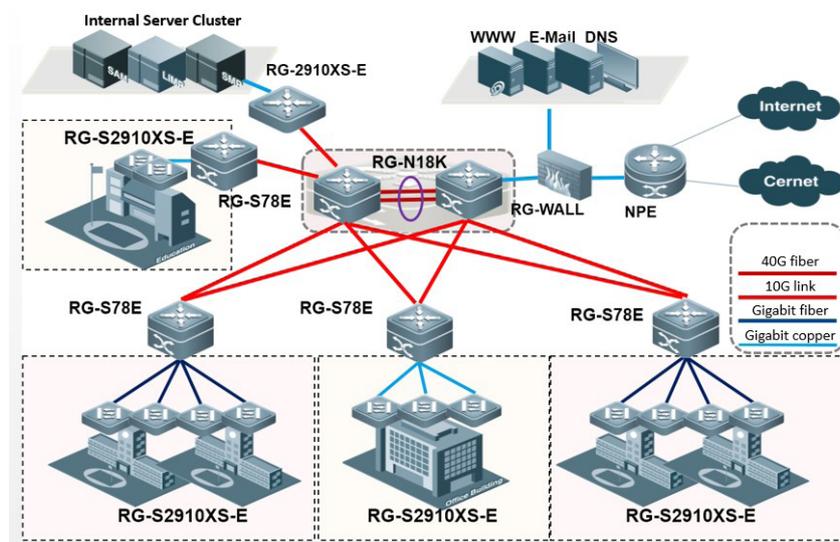
## TYPICAL APPLICATION

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

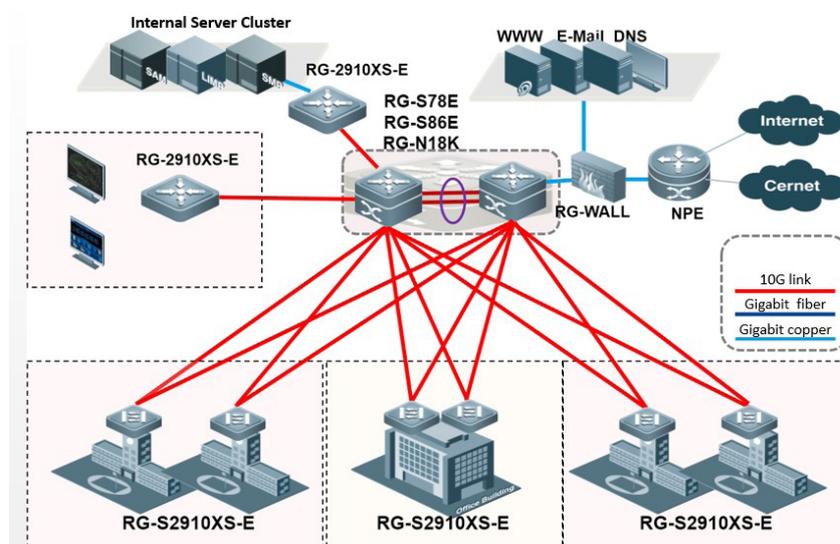
### Scenario 1

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-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    |
| <b>Optional Accessories</b> |   |
| 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<br>*Planned for future support   |
| *M2910-04XS                 | 4-Port 10G SFP+ Interface Module, for S2910XS PoE models<br>*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                | 1000BASE-SX, SFP Transceiver, MM (850nm, 550m, LC)  |
| Mini-GBIC-LX                | Single-port 1000BASE-LX mini GBIC Transceiver (LC)  |
| Mini-GBIC-LH40              | Single-port 1000BASE-LH mini GBIC Transceiver (40km, LC)  |
| Mini-GBIC-ZX50              | Single-port 1000BASE-ZX mini GBIC Transceiver (50km, LC)  |
| Mini-GBIC-ZX80              | Single-port 1000BASE-ZX mini GBIC Transceiver (80km, LC)  |
| Mini-GBIC-ZX100             | 1000BASE-ZX mini GBIC Transceiver (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)   |
| 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  |



**Ruijie**  
Networks

Innovation Beyond Networks

---

**Beijing**

Fax : (8610) 6815-4205  
Phone : (8610) 5171-5996  
Email: info@ruijienetworks.com  
Address : 11/F, East Wing, ZhongYiPengao Plaza,  
No. 29 Fuxing Road, Haidian District,  
Beijing 100036, China

**Hong Kong**

Fax : (852) 3620-3470  
Phone : (852) 3620-3460  
Email : sales-HK@ruijienetworks.com  
Address: Unit 09, 20/F, Millennium City 2,  
378 Kwun Tong Road, Kowloon, Hong Kong

**Malaysia**

Fax : (603) 2181-1071  
Phone : (603) 2181-1071  
Email: sales-MY@ruijienetworks.com  
Address : Office Suite 19-12-3A, Level 12, UOA Center,  
No. 19 Jalan Pinang, 50450 Kuala Lumpur,  
Malaysia

**OEM Cooperation Division**

Phone: (8610) 5171-5995  
Email: OEM@ruijienetworks.com  
Address : 11/F, East Wing, ZhongYiPengao Plaza,  
No. 29 Fuxing Road, Haidian District,  
Beijing 100036, China

For further information, please visit our website <http://www.ruijienetworks.com>

Copyright © 2016 Ruijie Networks Co., Ltd. All rights reserved. Ruijie reserves the right to change, modify, transfer, or otherwise revise this publication without notice, and the most current version of the publication shall be applicable.