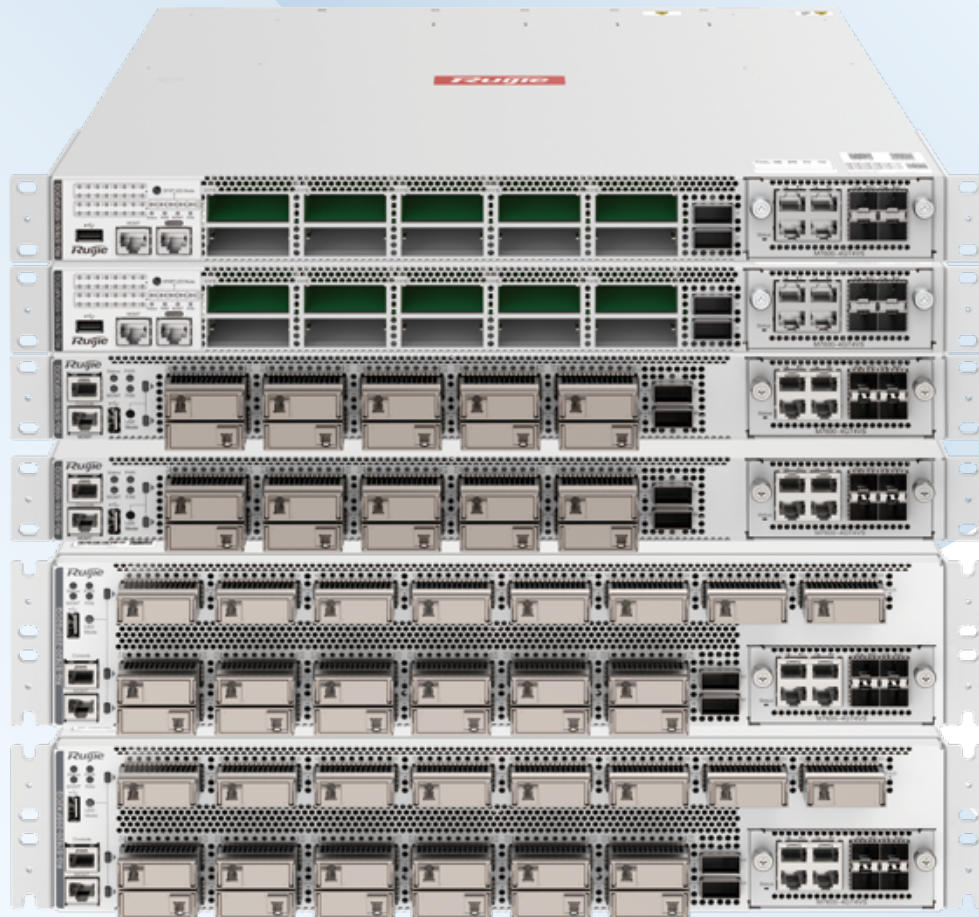




RG-S7600 Series Switches



Scan QR Code
For More Enquiry

Ruijie

Product Pictures



RG-S7610-10SFG2CQ



RG-S7610-10SFX2CQ



RG-S7620-20SFG2CQ



RG-S7620-20SFX2CQ



RG-S7610-10SFMP2CQ



RG-S7610-10SFXP2CQ

Product Overview

RG-S7600 series switches are next-generation and ultra-high-density core switches developed by Ruijie Networks for all-optical network scenarios.

By leveraging CWDM technology, the RG-S7610 series switch integrates 10 hyper-converged ports in a 1 RU space, equivalent to 80 logical interfaces for Simplified Optical Ethernet (SOE) 3.0 switches or 160 logical interfaces for SOE 4.0 switches, with support for 10GE, 2.5GE, and 1GE high-density optical transceivers. The RG-S7620 series switch integrates 20 hyper-converged ports in a 2 RU space, equivalent to 160 logical interfaces, with support for 10GE, 2.5GE, and 1GE high-density optical transceivers.

The RG-S7600 series switches, designed for all-optical networking scenarios and combined with CWDM technology, integrate CWDM wavelength division multiplexing technology based on traditional Ethernet interfaces. The switch integrates the CWDM combiner to transparently transmit services from the core layer to the access layer, effectively reducing the number of interfaces on the core device. This also significantly simplifies cabling, coping with future application expansion and simplified deployment.

The RG-S7600 series are available in six models:

SOE 3.0: RG-S7610-10SFG2CQ, RG-S7610-10SFX2CQ, RG-S7620-20SFG2CQ, and RG-S7620-20SFX2CQ.

SOE 4.0: RG-S7610-10SFMP2CQ and RG-S7610-10SFXP2CQ.

The RG-S7600 series switches can serve as core devices for small and medium-sized networks, as well as aggregation devices for large and medium-sized networks.

Product Features

Ultra-High-Density CWDM Fixed Switch

It provides SFG/SFX/SFMP/SFXP ports (each SFG/SFX port is equivalent to eight or sixteen 1GE/10GE logical channels). Each switch has two 100GE uplink ports that can be backward compatible with 40GE. It can be flexibly configured with expansion modules to connect to servers and common switches.

Integrated Functions of the Fixed Switch and CWDM Combiner, Realizing Simplified Management and Easy Deployment

The switch incorporates CWDM technology into the switch based on traditional Ethernet interfaces. It can transparently transmit services from the core layer to the access layer, effectively reducing the number of interfaces occupied on the core device and greatly simplifying cabling.

VSU, Allowing Flexible Networking and High Performance

With VSU technology, multiple physical devices are virtualized into one logical device, enabling unified operation and management while significantly reducing network nodes and simplifying O&M. It achieves rapid link fault switchover in milliseconds, ensuring uninterrupted transmission of critical services.

High Availability

Multiple hardware-level protection ensures continuous device operation without downtime.

Zero-touch Provisioning (ZTP) and Zero-touch Replacement (ZTR)

The device automatically completes registration and configuration after it connects to the network, achieving plug and play. Switches can be flexibly replaced with no need of reconfiguration. Service ports support auto-sensing, facilitating automatic O&M.

Product Specifications

Hardware Specifications

Port Specifications

Port specifications	RG-S7610-10SFG2CQ	RG-S7610-10SFX2CQ	RG-S7620-20SFG2CQ	RG-S7620-20SFX2CQ
Fixed service port	10 x SFG ports (80 x 1GE logical channels) 2 x 40GE/100GE QSFP28 ports (supporting 4 x 10GE/4 x 25GE)	10 x SFX ports (80 x 10GE logical channels) 2 x 40GE/100GE QSFP28 ports (supporting 4 x 10GE/4 x 25GE)	20 x SFG ports (160 x 1GE logical channels) 2 x 40GE/100GE QSFP28 ports (supporting 4 x 10GE/4 x 25GE)	20 x SFX ports (160 x 10GE logical channels) 2 x 40GE/100GE QSFP28 ports (supporting 4 x 10GE/4 x 25GE)
Module service port	M7600-4GT4VS: ● 4 x 10/100/1000BASE-T ports ● 4 x 1GE/10GE/25GE SFP28 ports M7600-2CQ: ● 2 x 40GE/100GE QSFP28 ports			

Port specifications	RG-S7610-10SFG2CQ	RG-S7610-10SFX2CQ	RG-S7620-20SFG2CQ	RG-S7620-20SFX2CQ
Module slot	2 x power module slots 4 x fan module slots 1 x expansion module slot		2 x power module slots 3 x fan module slots 1 x expansion module slot	
Expansion module	M7600-2CQ M7600-4GT4VS			
Power module	RG-PA550I II-F			
Fan module	S7610-FAN I-F		S7620-FAN I-F	
Fixed management port	1 x RJ45 console port 1 x RJ45 MGMT port			
USB	1 x USB 2.0 port			

Port specifications	RG-S7610-10SFMP2CQ	RG-S7610-10SFXP2CQ
Fixed service port	10 x SFMP ports (160 x 1GE logical channels) 2 x 40GE/100GE QSFP28 ports (supporting 4 x 10GE/4 x 25GE)	10 x SFXP ports (160 x 10GE/1GE logical channels) 2 x 40GE/100GE QSFP28 ports (supporting 4 x 10GE/4 x 25GE)
Module service port	M7600-4GT4VS: ● 4 x 10/100/1000BASE-T ports ● 4 x 1GE/10GE/25GE SFP28 ports M7600-2CQ: ● 2 x 40GE/100GE QSFP28 ports	
Module slot	2 x power module slots 4 x fan module slots (3+1 redundancy, and at least three fan modules required) 1 x expansion module slot (1+1 redundancy)	
Expansion module	M7600-2CQ M7600-4GT4VS	
Power module	RG-PA550I II-F	
Fan module	S7610-FAN I-F	
Fixed management port	1 x RJ45 console port 1 x RJ45 MGMT port	
USB	1 x USB 2.0 port	

System Specifications

System specifications	RG-S7610-10SFG2CQ	RG-S7610-10SFX2CQ	RG-S7620-20SFG2CQ	RG-S7620-20SFX2CQ
Packet forwarding rate *1	714 Mpps	1786 Mpps	833 Mpps	2976 Mpps
System switching capacity *2	960 Gbps	2.4 Tbps	1.12 Tbps	4 Tbps
CPU	Quad-core CPU, each core with the clock speed of 2.0 GHz			

System specifications	RG-S7610-10SFG2CQ	RG-S7610-10SFX2CQ	RG-S7620-20SFG2CQ	RG-S7620-20SFX2CQ
BootROM	16 MB			
Flash memory	8 GB			
Memory	4 GB DDR4			
Switch buffer	36 MB			
Number of MAC addresses	128,000			
ARP table size	96,000			
Number of IPv4 unicast routes	350,000 (shared with IPv6 routing)			
Number of IPv4 multicast routes	4000			
Number of IPv6 unicast routes	65,000			
Number of IPv6 multicast routes	2,000			
Number of ACEs	Ingress: 28,000 Egress: 4,000			
Number of VSU members	4			

System specifications	RG-S7610-10SFMP2CQ	RG-S7610-10SFXP2CQ
Packet forwarding rate *1	1190 Mpps	2976 Mpps
System switching capacity *2	1.6 Tbps	4 Tbps
CPU	4000Quad-core CPU, each core with the clock speed of 2.0 GHz	
BootROM	16 MB	
Flash memory	16 GB	
Memory	4 GB DDR4	
Switch buffer	36 MB	

*1 means the system's packet forwarding rate.For the latest parameters, visit the Ruijie official website.

*2 means the system's switching capacity.For the latest parameters, visit the Ruijie official website.

Power Supply and Consumption

Power supply and consumption	RG-S7610-10SFG2CQ	RG-S7610-10SFX2CQ	RG-S7620-20SFG2CQ	RG-S7620-20SFX2CQ
Power supply	2 x pluggable power modules			
Power input	RG-PA550I II-F (AC input): ● Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz ● Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz ● Rated input current: 3.5 A to 7.2 A ● Maximum input current: 7.2 A			
Maximum output power	RG-PA550I II-F: 550 W			
Module power consumption	270 W		450 W	

Power supply and consumption	RG-S7610-10SFMP2CQ	RG-S7610-10SFXP2CQ
Power supply	2 x pluggable power modules	
Power input	RG-PA550I II-F (AC input): ● Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz ● Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz ● Rated input current: 3.5 A to 7.2 A ● Maximum input current: 7.2 A	
Maximum output power	RG-PA550I II-F: 550 W	
Module power consumption	400 W	

Dimensions and Weight

Dimensions and Weight	RG-S7610-10SFG2CQ	RG-S7610-10SFX2CQ	RG-S7620-20SFG2CQ	RG-S7620-20SFX2CQ
Unit dimensions (W x D x H) Dimensions (W x D x H)	442 mm x 388 mm x 44 mm (17.40 in. x 15.28 in. x 1.73 in.)		442 mm x 388 mm x 88 mm (17.40 in. x 15.28 in. x 3.46 in.)	
Shipping dimensions (W x D x H)	590 mm x 543 mm x 196 mm (23.23 in. x 21.38 in. x 7.72 in.)		590 mm x 543 mm x 259 mm (23.23 in. x 21.38 in. x 10.20 in.)	
Rack height	1 RU		2 RU	
Unit weightWeight (full configuration)	6.88 kg (15.17 lbs, with 4 fan modules)		11.02 kg (24.29 lbs, with 3 fan modules)	
Shipping weight	9.73 kg (21.45 lbs)		14.4 kg (31.75 lbs)	

Dimensions and Weight	RG-S7610-10SFMP2CQ	RG-S7610-10SFXP2CQ
Unit dimensions (W x D x H) Dimensions (W x D x H)	442 mm x 420 mm x 43.6 mm (17.40 in. X 16.54 in. X 1.72 in.) (excluding fan modules and power handles) 482.6 mm x 420 mm x 43.6 mm (19.00 in. X 16.54 in. X 1.72 in.) (including mounting brackets, and excluding fan modules and power handles)	
Rack height	1 RU	
Unit weight	7.0 kg (15.43 lbs) (fan modules included during delivery, excluding power modules, expansion modules, and packaging materials)	

Environment and Reliability

Environment and reliability	RG-S7610-10SFG2CQ	RG-S7610-10SFX2CQ	RG-S7620-20SFG2CQ	RG-S7620-20SFX2CQ
Temperature	Operating temperature: 0°C to 45°C (32°F to 113°F) Storage temperature: -40°C to +70°C (-40°F to +158°F) Note: At an altitude between 1,800 m (5,905.51 ft.) and 5,000 m (16,404.20 ft.), every time the altitude increases by 220 m (721.78 ft.), the maximum temperature decreases by 1°C (1.8°F).			
Humidity	Operating humidity: 10% to 90% RH (non-condensing) Storage humidity: 5% to 95% RH (non-condensing)			
Altitude	Operating altitude: 0 m to 5000 m (0 ft. to 16,404.20 ft.) Storage altitude: 0 m to 5000 m (0 ft. to 16,404.20 ft.)			
Mean time between failure (MTBF)	683,104.8 hours (about 78 years)		360,474 hours (about 41 years)	
Fan	4 x pluggable fan modules (pre-installed)		3 x pluggable fan modules (pre-installed)	
Heat dissipation	Front-to-back airflow			
Acoustic noise	27°C (80.6°F): 56 dB 45°C (113°F): 72 dB			
Power module redundancy	1+1 redundancy			
Fan redundancy	3+1 redundancy, and at least three fan modules required		2+1 redundancy, and at least two fan modules required	
Module hot swapping	Supported			
Power module hot swapping	Supported			
Fan module hot swapping	Supported			
Cable hot swapping	Supported			
Power supply monitoring	Monitoring of the power supply model and status Power supply failure alarming			
Fan monitoring	Fan speed adjustment: 256 levels (Only automatic adjustment is supported.) Fan failure alarm			
Temperature monitoring	Temperature alarm and over-temperature protection			
ESD	ESD contact/air discharge: 6 kV/8 kV ESD susceptibility contact/air discharge: 8 kV/15 kV			
Surge protection	MGMT port: 4 kV Power port: 6 kV			

Environment and reliability	RG-S7610-10SFMP2CQ	RG-S7610-10SFXP2CQ
Temperature	Operating temperature: 0°C to 45°C (32°F to 113°F) Storage temperature: -40°C to +70°C (-40°F to +158°F) Note: At an altitude between 1,800 m (5,905.51 ft.) and 5,000 m (16,404.20 ft.), every time the altitude increases by 220 m (721.78 ft.), the maximum temperature decreases by 1°C (1.8°F).	
Humidity	Operating humidity: 10% to 90% RH (non-condensing) Storage humidity: 5% to 95% RH (non-condensing)	
Altitude	Operating altitude: 0 m to 5000 m (0 ft. to 16,404.20 ft.) Storage altitude: 0 m to 5000 m (0 ft. to 16,404.20 ft.)	
Mean time between failure (MTBF)	302000 hours (about 34 years)	
Fan	4 x pluggable fan modules (pre-installed)	
Heat dissipation	Front-to-back airflow	
Acoustic noise	27°C (80.6°F): 56 dB 45°C (113°F): 72 dB	
Power module redundancy	1+1 redundancy	
Fan redundancy	3+1 redundancy, and at least three fan modules required	
Module hot swapping	Supported	
Power module hot swapping	Supported	
Fan module hot swapping	Supported	
Cable hot swapping	Supported	
Power supply monitoring	Monitoring of the power supply model and status Power supply failure alarming	
Fan monitoring	Fan speed adjustment: 256 levels (Only automatic adjustment is supported.) Fan failure alarm	
Temperature monitoring	Temperature alarm and over-temperature protection	
ESD	ESD contact/air discharge: 6 kV/8 kV ESD susceptibility contact/air discharge: 8 kV/15 kV	
Surge protection	Management port: 4 kV (management port) 4GT port of the M7600-4GT4VS expansion module: 6 kV	

Certifications and Regulatory Compliance

Certifications and regulatory compliance	RG-S7610-10SFG2CQ	RG-S7610-10SFX2CQ	RG-S7620-20SFG2CQ	RG-S7620-20SFX2CQ
Safety regulation	IEC 62368-1: 2018 EN 62368-1: 2014+A11:2017			
EMC regulation	EN 55032:2015+A1:2020 EN 61000-3-2013+A1:2019+A2:2021 EN IEC 61000-3-2:2019+A1:2021 EN 55035:2017+A11:2020 EN 300386 V2.2.1			
RoHS	European RoHS Directive 2011/65/EU & Amendment(EU) 2015/863			

Certifications and regulatory compliance	RG-S7610-10SFMP2CQ	RG-S7610-10SFXP2CQ
Safety regulation	IEC 62368-1:2018 EN 62368-1 :2014+A11:2017	
EMC regulation	EN 55032: 2015+A1:2020, EN 61000-3-3: 2013+A1: 2019+A2:2021 EN IEC 61000-3-2: 2019+A1:2021+A2:2024 EN 55035: 2017+A11:2020 EN 300386 V2.2.1	
RoHS	European RoHS Directive 2011/65/EU & Amendment(EU) 2015/863	

Software Specifications

Performance and Capacity

Performance and Capacity	RG-S7600 Series
Maximum number of VSU members	4
VSU bandwidth	400 Gbps
Maximum number of SVIs	4,094
Maximum number of MAC address entries	128,000
Maximum number of ARP address entries	96,000
Maximum number of ND entries	80,000
Maximum number of IPv4 unicast routes	350,000 (shared with IPv6 routes)
Maximum number of IPv6 unicast routes	65,000
Maximum number of IPv4 multicast routes	4,000

Performance and Capacity	RG-S7600 Series
Maximum number of IPv6 multicast routes	2,000
Maximum number of IGMP groups	4,000
Maximum number of MLD groups	2,000
Maximum number of VRF instances	1,024
Maximum number of ACEs	In: 28,000, Out: 4,000

Function

Device Model	RG-S7600 Series
Ethernet switching	Jumbo frame (maximum length: 9,216 bytes)
	Maximum number of VLANs that can be created: 4,094
	Voice VLAN
	Super-VLAN and private VLAN
	MAC address-based, port-based, protocol-based, and IP subnet-based VLAN assignment
	GVRP
	Basic QinQ and selective QinQ
	STP (IEEE 802.1.d), RSTP (IEEE 802.1w), and MSTP (IEEE 802.1s)
	ERPS (G.8032)
	LLDP/LLDP-MED
IP service	Static ARP
	DHCP client
	DHCP relay
	DHCP server
	DHCP snooping
	DHCPv6 server, DHCPv6 client, DHCPv6 relay, and DHCPv6 snooping
	Neighbor Discovery (ND) and ND snooping
	GRE tunnel

Device Model	RG-S7600 Series
IP routing	IPv4/IPv6 static routing
	RIP and RIPng
	OSPFv2 and OSPFv3 Graceful restart (GR)
	IPv4 IS-IS IPv6 IS-IS
	BGP4 and BGP4+
	IPv4/IPv6 VRF
	IPv4/IPv6 PBR
Multicast	IGMPv1/v2/v3
	IGMPv1/v2/v3 snooping
	IGMP fast leave
	PIM-SM
	PIM-DM
Multicast	PIM-SSM for IPv4 and IPv6
	MSDP to achieve inter-domain multicast
	MLDv1 and MLDv2
	MLD snooping
	PIM-SMv6
	Multicast source IP address check Multicast source port check
	Multicast querier
MPLS	6PE/6VPE model interconnection with the IPv4/IPv6 MPLS backbone network
	MPLS MIB (RFC 1273, RFC 4265, and RFC 4382) (MPLS MIB, MPLS L3VPN STD MIB, MPLS LSR STD MIB, and MPLS VPN MIB)
ACL and QoS	Standard IP ACLs (hardware ACLs based on IP addresses)
	Extended IP ACLs (hardware ACLs based on IP addresses or TCP/UDP port numbers)
	Extended MAC ACLs (hardware ACLs based on source MAC addresses, destination MAC addresses, and optional Ethernet type)
	Expert-level ACLs (hardware ACLs based on the source and destination IP addresses and ports, and protocol type)

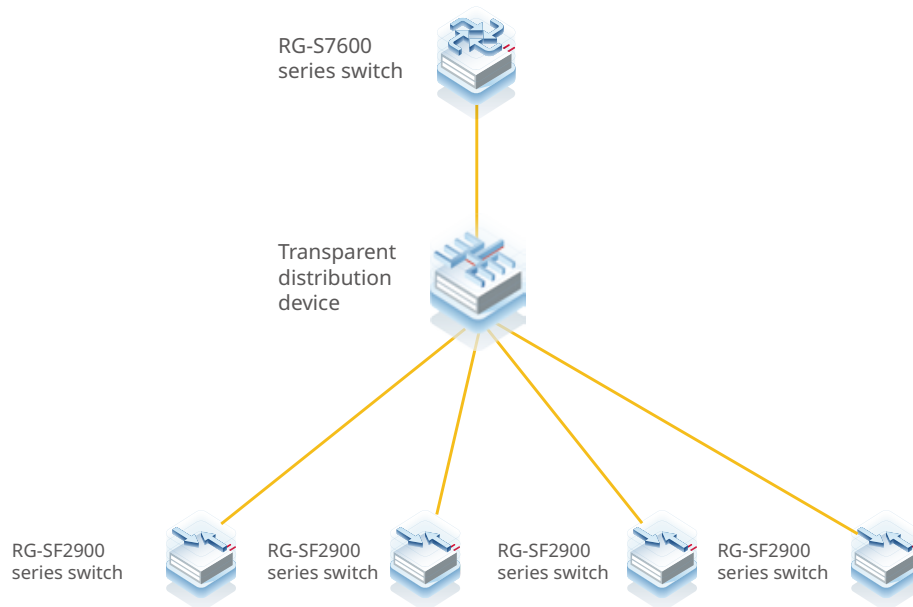
Device Model	RG-S7600 Series
ACL and QoS	IPv6 ACL
	ACL 80
	Expert-level ACLs (hardware ACLs based on
	ACL redirection
	Port-based rate limiting
	Traffic classification based on 802.1p priorities, DSCP priorities, and IP precedences
	Congestion management: SP, WRR, DRR, WFQ, SP+WRR, SP+DRR, and SP+WFQ
	Congestion avoidance: tail drop, RED, and WRED
	Eight queues on each port
Security	Multiple AAA modes
	RADIUS authentication and authorization
	TACACS+
	IEEE 802.1X authentication, MAC address bypass (MAB) authentication, and interface-based and MAC address-based 802.1X authentication
	Web authentication
	Hypertext Transfer Protocol Secure (HTTPS)
	SSHv1 and SSHv2
	Global IP-MAC binding
	Port security
	IP source guard
	SAVI
	ARP spoofing prevention
	CPP and NFPP
	Various attack defense functions including NFPP, ARP anti-spoofing, DHCP/DHCPv6 attack defense, ICMP attack defense, ND attack defense, IP scanning attack defense, and customizing attack defense packet types
	IPv4 uRPF and IPv6 uRPF Strict and loose uRPF Default route exclusion configuration during uRPF checks

Device Model	RG-S7600 Series
Reliability	REUP
	Rapid Link Detection Protocol (RLDP), Layer 2 link connectivity detection, unidirectional link detection, and VLAN-based loop control
	Data Link Detection Protocol (DLDP)
	IPv4 VRRP v2/v3 and IPv6 VRRP v3
	BFD
	Link monitoring, fault notification, and remote loopback based on 802.3ah (EFM)
	Hot swapping of power modules and fan modules
Device Virtualization	VSU
NMS and Maintenance	The management software and service templates are installed on the device upon delivery for rapid deployment. Various functions are supported, such as network service planning, and plug and play, ZTP, ZTR, and optical link fault monitoring and warning for connected switches.
	RSPAN and ERSPAN
	sFlow (network detection technology based on packet sampling, which is mainly used for traffic statistics and analysis in heavy-traffic scenarios)
	NTP and SNTP
	FTP and S TFTP
	SNMP v1/v2/v3
	RMON (1, 2, 3, 9) Various types of RMON groups, including event groups, alarm groups, history groups, and statistics groups, as well as private alarm extension groups
	NETCONF
	CWMP
	gRPC
	OpenFlow Special 1.0/1.3 Flow table analysis defined by all protocols Transmission of specified packets to the controller Configuring the controller's IP address and port Notifying port status changes to the controller
VXLAN	EVPN VXLAN tunnel establishment VLAN access to VXLAN IPv4 over IPv4

Device Model	RG-S7600 Series
VXLAN	Distributed gateway IPv6 over IPv4 Using an SVI to connect to the VXLAN network Using a routed interface to connect to the VXLAN network Proxy ARP (replying with the actual MAC address)) ND proxy (replying with the actual MAC address) ND reply (replying with the actual MAC address) VXLAN EVPN VXLAN static route Anycast gateway VXLAN bridging mode VXLAN routing mode Proxy ARP (replying with the gateway MAC address) Configuring the UDP port number in VXLAN packets Static VXLAN tunnel creation

| Typical Applications

Core Device on a Small- or Medium-sized Network, or Aggregation Device on a Large- or Medium-sized Network



| Ordering Guide

Perform the following steps to configure an RG-S7600:

- Select the chassis based on the specific product model.
- Select power modules based on power supply requirements. At least one power module is required.
- Select expansion modules as required.

Ordering Information

Chassis

Model	Description
RG-S7610-10SFG2CQ	CWDM switch, 1 RU, 10 x SFG ports (80 x 1GE logical channels), 2 x 40GE/100GE QSFP28 ports, 2 x power module slots, 1 x expansion module slot.
RG-S7610-10SFX2CQ	CWDM switch, 1 RU, 10 x SFX ports (80 x 10GE logical channels), 2 x 40GE/100GE QSFP28 ports, 2 x power module slots, 1 x expansion module slot.
RG-S7620-20SFG2CQ	CWDM switch, 2 RU, 20 x SFG ports (160 x 1GE logical channels), 2 x 40GE/100GE QSFP28 ports, 2 x power module slots, 1 x expansion module slot.
RG-S7620-20SFX2CQ	CWDM switch, 2 RU, 20 x SFX ports (160 x 10GE logical channels), 2 x 40GE/100GE QSFP28 ports, 2 x power module slots, 1 x expansion module slot.
RG-S7610-10SFMP2CQ	CWDM switch, 1 RU, 10 x SFMP 40GE ports, 2 x fixed 100GE uplink ports, and 1 x expansion slot. Port speeds support backward compatibility.
RG-S7610-10SFXP2CQ	CWDM switch, 1 RU, 10 x SFXP 160GE ports, 2 x fixed 100GE uplink ports, and 1 x expansion slot. Port speeds support backward compatibility.

Expansion module

Model	Description
M7600-2CQ	Expansion module, 2 x 40GE/100GE QSFP28 ports.
M7600-4GT4VS	Expansion module, 4 x 10/100/1000BASE-T ports, 4 x 1GE/10GE/25GE SFP28 ports.

Note:

- 10 x SFX ports and 20 x SFX ports support SFG-LR-SM and SFX-LR-SM.
- 4 x 1GE/10GE/25GE SFP28 ports support 1GE SFP transceivers, 10GE SFP+ transceivers and 25GE SFP28 transceivers.
- 2 x 40GE/100GE QSFP28 ports support 40GE QSFP+ transceivers and 100GE QSFP28 transceivers.

Power module

Model	Description
RG-PA550I II-F	550 W AC power module, supporting redundancy, 10 A power cord

Note: The power module is sold and shipped separately. The switch chassis packaging does not include the power module. The power module must be ordered to ensure the switch can work properly.

Optical Transceivers and Cables

1GE Optical Transceiver

Model	Description
Mini-GBIC-GT	1000BASE-X to 1000BASE-T, copper SFP transceiver, RJ45, 100 m over Cat 5e/6/6a The port needs to be configured with auto-negotiation
MINI-GBIC-SX-MM850	1000BASE-SX, SFP transceiver, 850 nm, Duplex LC, 500 m over MMF
MINI-GBIC-LX-SM1310	1000BASE-LX, SFP transceiver, 1310 nm, Duplex LC, 10 km over SMF
MINI-GBIC-LH40-SM1310	1000BASE-LH, SFP transceiver, 1310 nm, Duplex LC, 40 km over SMF
MINI-GBIC-ZX80-SM1550	1000BASE-ZX, SFP transceiver, 1550 nm, Duplex LC, 80 km over SMF
GE-SFP-LX20-SM1310-BIDI	1000BASE-LX, SFP transceiver, TX1310/RX1550, BiDi LC, 20 km over SMF
GE-SFP-LX20-SM1550-BIDI	1000BASE-LX, SFP transceiver, TX1550/RX1310, BiDi LC, 20 km over SMF

Note: BiDi transceivers must be used in pairs. If one end uses GE-SFP-LX20-SM1310-BIDI, the other end must use GE-SFP-LX20-SM1550-BIDI.

10GE Optical Transceiver

Model	Description
XG-SFP-SR-MM850	10GBASE-SR, SFP+ transceiver, 850nm, Duplex LC, 300 m over MMF
XG-SFP-LR-SM1310	10GBASE-LR, SFP+ transceiver, 1310nm, Duplex LC, 10 km over SMF
XG-SFP-ER-SM1550	10GBASE-ER, SFP+ transceiver, 1550nm, Duplex LC, 40 km over SMF
XG-SFP-ZR-SM1550	10GBASE-ZR, SFP+ transceiver, 1550nm, Duplex LC, 80 km over SMF
XG-SFP-AOC1M	10GBASE, SFP+ active optical cable (AOC), 1 m, including one cable and two optical transceivers
XG-SFP-AOC5M	10GBASE, SFP+ active optical cable (AOC), 5 m, including one cable and two optical transceivers

25GE Optical Transceiver

Model	Description
VG-SFP-SR-MM850	25GBASE-SR, SFP28 transceiver, 850 nm, Duplex LC, 100 m over OM4 MMF, 70 m over OM3 MMF
VG-SFP-LR-SM1310	25GBASE-LR, SFP28 transceiver, 1310 nm, Duplex LC, 10 km over SMF
VG-SFP-AOC5M	25GBASE, SFP28 active optical cable (AOC), 5 m, including one cable and two optical transceivers

40GE Optical Transceiver

Model	Description
40G-QSFP-LSR-MM850	40GBASE-LSR, QSFP+ transceiver, 850 nm, MPO 1 x 12, 400 m over OM4 MMF, 300 m over OM3 MMF
40G-QSFP-LR4-SM1310	40GBASE-LR4, QSFP+ transceiver, 1310 nm, Duplex LC, 10 km over SMF
40G-QSFP-iLR4-SM1310	40GBASE-iLR4, QSFP+ transceiver, 1310 nm, Duplex LC, 2 km over SMF
40G-QSFP-LX4-SM1310	40GBASE-LX4, QSFP+ transceiver, 1310 nm, Duplex LC, 150 m over OM3/OM4 MMF, 2 km over SMF
40G-AOC-5M	40GBASE, QSFP+ active optical cable (AOC), 5 m, including one cable and two optical transceivers

100GE Optical Transceiver

Model	Description
100G-QSFP-SR-MM850	100GBASE-SR, QSFP28 transceiver, 850 nm, MPO 1 x 12, 100 m over OM4 MMF, 70 m over OM3 MMF
100G-QSFP-LR4-SM1310	100GBASE-LR4, QSFP28 transceiver, 1310 nm, Duplex LC, 10 km over SMF
100G-AOC-10M	100GBASE, QSFP28 active optical cable (AOC), 10 m, including one cable and two optical transceivers

CWDM Transceiver

1:8 CWDM transceivers of SOE Solution 3.0

Model	Description
SFG-LR-SM	1GBASE-LR, core switch-side SFG CWDM transceiver, integration of 8 different wavelengths, BiDi LC, 10 km over SMF
SFM-LR-SM	2.5GBASE-LR, core switch-side SFM CWDM transceiver, integration of 8 different wavelengths, BiDi LC, 10 km over SMF
SFX-LR-SM	10GBASE-LR, core switch-side SFX CWDM transceiver, integration of 8 different wavelengths, BiDi LC, 10 km over SMF
GE-SFP-LR(A1-8)-H	A group of 8 high-power 1GE CWDM transceivers with different wavelengths for access-side deployment, SMF, 10 km (6.21 miles), dual-fiber LC/UPC connectors, supporting single-uplink and dual-uplink scenarios
MG-SFP-LR(A1-8)-H	A group of 8 high-power 2.5GE CWDM transceivers with different wavelengths for access-side deployment, SMF, 10 km (6.21 miles), dual-fiber LC/UPC connectors, supporting single-uplink and dual-uplink scenarios
MG-SFP-LR(A1-4)-H	A group of 4 high-power 2.5GE CWDM transceivers with different wavelengths for access-side deployment, SMF, 10 km (6.21 miles), dual-fiber LC/UPC connectors, supporting single-uplink and dual-uplink scenarios

Model	Description
XG-SFP-LR(A1-8)-H	A group of 8 high-power 10GE CWDM transceivers with different wavelengths for access-side deployment, SMF, 10 km (6.21 miles), dual-fiber LC/UPC connectors, supporting single-uplink and dual-uplink scenarios
XG-SFP-LR(A1-8)-H-E	A group of 8 high-power quasi-industrial temperature 10GE CWDM transceivers with different wavelengths for access-side deployment, SMF, 10 km (6.21 miles), dual-fiber LC/UPC connectors, supporting single-uplink and dual-uplink scenarios
MG-SFP-LR(A1-8)-H-E	A group of 8 high-power quasi-industrial temperature 2.5GE BiDi CWDM transceivers with different wavelengths for access-side deployment, SMF, 10 km (6.21 miles), dual-fiber LC/UPC connectors, supporting single-uplink and dual-uplink scenarios
GE-SFP-LR(A1-8)-H-E	A group of 8 high-power quasi-industrial temperature 1GE BiDi CWDM transceivers with different wavelengths for access-side deployment, SMF, 10 km (6.21 miles), dual-fiber LC/UPC connectors, supporting single-uplink and dual-uplink scenarios

1:16 CWDM Transceivers of SOE Solution 4.0

Model	Description
SFGP-LR-SM	Core-side high-density CWDM 16GE SFGP transceiver, supporting 16 distinct wavelengths (corresponding to 16 gigabit access devices), SMF, 10 km (6.21 miles), and single-fiber LC/APC connector
SFXP-LR-SM	Core-side high-density CWDM 160GE SFXP transceiver, supporting 16 distinct wavelengths (corresponding to 16 10 GE access devices), SMF, 10 km (6.21 miles), and single-fiber LC/APC connector
XG-SFP-LR(A1-16)-H-BIDI	A group of 16 high-power commercial-temperature 10GE BiDi CWDM transceivers with different wavelengths for access-side deployment, SMF, 10 km (6.21 miles), and single LC/UPC connector, designed to be used with single-uplink transparent distribution modules
GE-SFP-LR(A1-16)-H-BIDI	A group of 16 high-power commercial-temperature 1GE BiDi CWDM transceivers with different wavelengths for access-side deployment, SMF, 10 km (6.21 miles), and single LC/UPC connector
XG-SFP-LR(A1-16)-P-BIDI	A group of 16 ultra-high-power commercial-temperature 10GE BiDi CWDM transceivers with different wavelengths for access-side deployment, SMF, 10 km (6.21 miles), and single LC/UPC connector, designed to be used with dual-uplink transparent distribution modules
XG-SFP-LR(A1-16)-H-E-BIDI	A group of 16 high-power quasi-industrial temperature 10GE BiDi CWDM transceivers with different wavelengths for access-side deployment, SMF, 10 km (6.21 miles), and single LC/UPC connector
GE-SFP-LR(A1-16)-H-E-BIDI	A group of 16 high-power quasi-industrial temperature 1GE BiDi CWDM transceivers with different wavelengths for access-side deployment, SMF, 10 km (6.21 miles), and single LC/UPC connector

Transparent Distribution Modules

1:8 Transparent Distribution Modules of SOE Solution 3.0

Model	Description
RG-MUX-8LC/LC-H	Building-side 8-port transparent distribution module (high-end version with low insertion loss), 8 x 1GE/2.5GE/10GE demultiplexing ports, 1 x multiplexing port, supporting connection to a dual-uplink splitter
RG-MUX-8LC/LC	Building-side 8-port transparent distribution module, 8 x 1GE/2.5GE/10GE demultiplexing ports, 1 x multiplexing port
RG-MUX-EXT	Building-side transparent distribution module's expansion module, or optical dual-uplink splitter (delivered with short fiber jumpers), which connects to the transparent distribution module and provides 1-to-2 optical signal splitting to realize dual-uplink networking; 1 x multiplexing port, 2 x uplink ports for optical splitting
RG-MUX-BOX	Building-side transparent distribution module subrack, 6 x transparent distribution module/dual-uplink splitter slots

1:16 Transparent Distribution Modules of SOE Solution 4.0

Model	Description
RG-MUX-16LC/LC-H-BIDI	Building-side 16-port transparent distribution module, single-fiber bidirectional BiDi downlink ports with LC/UPC connectors, and a single uplink COM port with an LC/APC connector, supporting standalone scenarios
RG-MUX-16LC/LC-V-BIDI	Building-side 16-port transparent distribution module, single-fiber bidirectional BiDi downlink ports with LC/UPC connectors, and dual uplink COM ports with LC/APC connectors, supporting VSU scenarios
RG-MUX-BOX-H	Subrack of the building-side transparent distribution module, providing three slots, which can accommodate 1:16 or 1:8 transparent distribution modules or dual-uplink splitters, supporting rack mounting and wall mounting

Package Contents

Item	RG-S7610-10SFG2CQ RG-S7610-10SFX2CQ	RG-S7620-20SFG2CQ RG-S7620-20SFX2CQ	RG-S7610-10SFMP2CQ RG-S7610-10SFXP2CQ
Chassis	1	1	1
Grounding wire	1	1	1
Mounting bracket	2	2	2
Rear mounting bracket	2	2	2
Guide rail	2	2	2

Item	RG-S7610-10SFG2CQ RG-S7610-10SFX2CQ	RG-S7620-20SFG2CQ RG-S7620-20SFX2CQ	RG-S7610-10SFMP2CQ RG-S7610-10SFXP2CQ
M4x8 cross recessed countersunk head screw, GB819-85	14	18	0
M4x7 cross recessed countersunk head screw, GB819-85	0	0	14
M6x16 screw	8	8	8
M6 cage nut	8	8	8
<i>Network Product Warranty Manual and Hazardous Substance Statement</i>	1	1	0
Quick installation Guide	0	0	1
Ruijie management software of centralized modular devices Management Software	1 (pre-installed)	1 (pre-installed)	1 (pre-installed)

| Warranty

For more information about warranty terms and period, contact your local sales agency:

- Warranty terms: <https://www.ruijie.com/support/servicepolicy>
- Warranty period: <https://www.ruijie.com/support/servicepolicy/Service-Support-Summary/>

Note: The warranty terms are subject to the terms of different countries and distributors.

| More Information

For more information about Ruijie Networks, visit the official Ruijie website or contact your local sales agency:

- Ruijie Networks official website: <https://www.ruijie.com/>
- Online support: <https://www.ruijie.com/support>
- Hotline support: <https://www.ruijie.com/support/hotline>
- Email support: EBGITSC@ruijie.com.cn



Ruijie Networks Co., Ltd.

For more information, visit www.ruijie.com or call 86-400-620-8818.