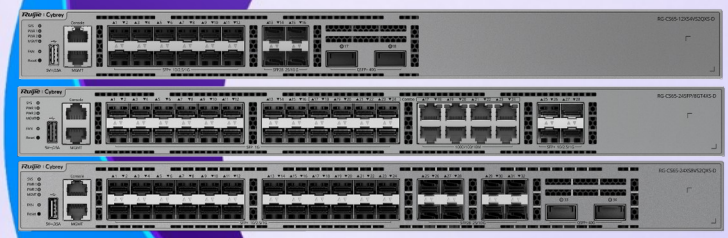
RG-CS65 Series

Layer 3 Core/Aggregation Switches with High-Speed Multi-Rate Ports



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Datasheet

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Product Overview

Introduction

The RG-CS65 series consists of next-generation, high-performance, and large-capacity switches launched by Ruijie Cybrey. Powered by an advanced next-generation switching chipset and the latest ROGS modular operating system, the switch series delivers ultra-large table capacity, powerful hardware processing performance, and an exceptional intelligent O&M experience. With flexible port configurations, the switch series provides 1GE/2.5GE/10GE multi-rate downlink access ports, along with 25GE SFP28 as well as 40GE QSFP+ high-speed uplink optical ports. Built on an architecture that combines flexible multi-rate access ports with ultra-high-bandwidth uplink ports, the switch series efficiently enables high-density client access and high-performance network aggregation.

The RG-CS65 series is ideal for deployment at the aggregation layer of large-scale networks, the core layer of small- and medium-sized networks, and for server access in data centers. With a high-reliability hardware architecture, granular end-to-end quality of service (QoS) assurance, and comprehensive security features, the switch series fully meets the demanding enterprise requirements for high-speed, secure, and intelligent network infrastructure.

Product Appearance

RG-CS65-12XS4VS2QXS-D



RG-CS65-24SFP/8GT4XS-D



RG-CS65-24XS8VS2QXS-D



Product Highlights

1. **Flexible multi-rate access ports and ultra-high-bandwidth uplink ports**
2. **High reliability and stability**

- Maximum operating temperature at 50° C (122° F)
- N+1 redundant power and fan design
- Dual flash, dual boot, and dual bin
- Circuit isolation protection based on optical ports
- Up to eight member devices in Virtual Switch Unit (VSU)

3. **Comprehensive Layer 3 service features**

Product Features

Flexible multi-rate access ports and ultra-high-bandwidth uplink ports

The switch series supports flexible combinations of 1GE, 10GE, 25GE, and 40GE optical ports, with 25GE ports that can be flexibly deployed for high-bandwidth downlink access or high-speed uplink ports. Combined with massive forwarding table capacity, the switch series delivers both high performance and excellent scalability, making the switches ideally suited for deployment at the aggregation layer of large campus networks or the core layer of small- and medium-sized networks.

Maximum operating temperature at 50°C (122°F)

The switch series supports stable operation at temperatures up to 50° C (122° F). Under the same environmental conditions, the switch series experiences lower thermal stress and delivers greater component stability, enabling flexible deployment without the need for dedicated server-room air conditioning and significantly reducing overall network deployment and maintenance costs.

N+1 redundant power and fan design

The switch series is equipped with dual hot-swappable power modules and three to four hot-swappable fan modules, providing full redundancy for both the power and cooling systems. If any single power or fan module fails, the redundant architecture seamlessly sustains system operation and supports maintenance and replacement without service interruption. By removing single points of failure (SPOF) at the hardware level, the switch series ensures 24/7 stable operation of critical services for enterprises.

Dual flash, dual boot, and dual bin

Two independent flash chips each store a complete boot image, enabling automatic selection of the active or backup partition at startup. If the active partition is abnormal, the system can quickly switch to the backup partition at the hardware level for higher reliability. In addition, the dual-bin mechanism provides both active and backup operating systems, allowing automatic rollback to the backup system in the event of an upgrade failure or firmware corruption. This effectively reduces the risk of device downtime and ensures highly reliable service continuity.

Circuit isolation protection based on optical ports

With an area-based power supply, an optical port failure affects only the optical ports within the same area. This design isolates faults without impacting services on other ports or the normal operation of the motherboard, greatly reducing the negative impact caused by optical port failures and ensuring service continuity.

Virtual Switching Unit

The switch series supports VSU. VSU uses aggregate links to connect multiple physical devices and virtualize them into a single logical device. These devices share the same IP address, Telnet process, and CLI for unified management, and support automatic version checks and automatic configuration. Administrators can manage the entire network through a single logical node, which significantly simplifies the network topology and routine O&M.

Layer 3 service features

The switch series delivers comprehensive Layer 3 advanced routing capabilities, including support for enterprise-class dynamic routing protocols such as Border Gateway Protocol (BGP), Open Shortest Path First (OSPF), Intermediate System-to-Intermediate System (IS-IS), and Routing Information Protocol (RIP), as well as multicast protocols such as Protocol Independent Multicast-Dense Mode (PIM-DM) and Protocol Independent Multicast-Sparse Mode (PIM-SM), enabling network deployments with ease. With VPN routing and forwarding (VRF)-based service isolation and policy-based routing (PBR), the switch series provides flexible and secure traffic control. In addition, by integrating equal-cost multi-path routing (ECMP), Link Aggregation Control Protocol (LACP), and Fast Reroute (FRR), the switch series ensures efficient load balancing and millisecond-level high reliability across network links.

Convenient O&M experience

The switch series is equipped with console and management ports, and supports multiple management methods including CLI, Web UI, SNMP, and cloud/mobile apps, meeting configuration needs across all scenarios from local to remote management. The switch series also integrates advanced network diagnostic tools such as OAM link detection, sFlow traffic analysis, and RSPAN remote port mirroring, enabling network traffic visualization and millisecond-level fault identification.

Product Specifications

Hardware Specifications

Port Specifications	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
Fixed service port	12 x 1GE/2.5GE/10GE SFP+ ports 4 x 10GE/25GE SFP28 ports 2 x 40GE QSFP+ ports	24 x 1GE SFP ports (Ports 17 to 24 are 10/100/1000BASE-T combo ports) 4 x 1GE/2.5GE/10GE SFP+ ports	24 x 1GE/2.5GE/10GE SFP+ ports 8 x 10GE/25GE SFP28 ports 2 x 40GE QSFP+ ports
Port restrictions	Note: The four 10GE/25GE SFP28 ports must operate in the same speed mode; 10 Gbps and 25 Gbps speed modes cannot be mixed.	-	Note: 1. 24 x 1GE/2.5GE/10GE SFP+ ports: Divided into 4-port groups by number. Speed modes (1/2.5/10 Gbps) cannot be mixed per group. If one port in a group is configured as a VSL port, the other three are automatically designated as VSL ports. 2. 8 x 10GE/25GE SFP28 ports: Divided into 4-port groups by number. Speed modes (10/25 Gbps) cannot be mixed per group. If one port in a group is configured as a VSL port, the other three are automatically designated as VSL ports.
Console port	1		
MGMT port	1		
USB	1		

System Specifications	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
Switching capacity	600 Gbps (Gbit/s)	128 Gbps (Gbit/s)	1040 Gbps (Gbit/s)

System Specifications	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
Forwarding rate	446.4 Mpps	95.23 Mpps	773.76 Mpps
Packet buffer size	32 Mbit	32 Mbit	64 Mbit
CPU	Quad-core ARMv8 Cortex-A72 CPU frequency up to 2000 MHz		
SDRAM	4 GB+8 bit ECC		
Flash memory	1 GB		
BootROM	16 MB		
Real-time clock (RTC)	Yes		

Dimensions and Weight	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
Unit dimensions (W x D x H)	442 mm x 420 mm x 43.6 mm (17.4 in. x 16.54 in. x 1.72 in.)		
Rack height	1 RU		
Packaging dimensions (W x D x H)	570 mm x 565 mm x 225 mm (22.44 in. x 22.24 in. x 8.86 in.)		
Unit weight	5.3 kg (11.68 lbs)	5.40 kg (11.90 lbs)	5.81kg (12.81 lbs)
Packaging weight	7.93 kg (17.48 lbs)	8.01 kg (17.66 lbs)	8.45 kg (18.63 lbs)

Power Supply and Consumption	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
Power module	RG-PA150IB-FC	RG-PA150IB-FC	RG-PA550I-FC
Power supply mode	2 x pluggable power modules (not pre-installed)		
Maximum power consumption	110 V: 105 W 220 V: 104 W	110 V: 100 W 220 V: 99 W	110 V: 189 W 220 V: 186 W
Power input	RG-PA150IB-FC (AC input): ● Rated input voltage: 100 V AC to 240 V AC, 50 Hz to 60 Hz ● Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz ● Maximum input current: 3 A	RG-PA150IB-FC (AC input): ● Rated input voltage: 100 V AC to 240 V AC, 50 Hz to 60 Hz ● Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz ● Maximum input current: 3 A	RG-PA550I-FC (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

Environment and Reliability	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
Operating temperature	0°C to 50°C (32°F to 122°F)		
Storage temperature	–40°C to +70°C (–40°F to +158°F)		
Operating humidity	10% RH to 90% RH (non-condensing)		
Storage humidity	5% RH to 95% RH (non-condensing)		
Operating altitude	0 m to 5000 m (0 ft. to 16,404.20 ft.)		
Cooling	Air cooling, front-to-rear airflow, left-to-rear airflow		
Fan	4 x hot-swappable fan modules (pre-installed)	3 x hot-swappable fan modules (pre-installed)	4 x hot-swappable fan modules (pre-installed)
Noise	27°C (80.6°F): 40 dB	27°C (80.6°F): 40 dB	27°C (80.6°F): 52 dB
Fan speed adjustment	Intelligent speed adjustment		
Power redundancy	Yes		
Hot swapping of power modules	Yes		
Hot swapping of cables	Yes		
USB hot swapping	Yes		
Surge protection	MGMT port:±10 kV for common mode Power connector: ±6 kV for common mode and ±6 kV for differential mode	Service port: ±10 kV for common mode MGMT port:±10 kV for common mode Power connector: ±6 kV for common mode and ±6 kV for differential mode	MGMT port:±10 kV for common mode Power connector: ±6 kV for common mode and ±6 kV for differential mode
ESD prevention	Contact discharge: 6 kV Air discharge: 8 kV		
Temperature monitoring and protection	Temperature monitoring, temperature alarm, and over-temperature protection		
Fan monitoring	Fault alarm		
Power supply monitoring	Monitoring of power supply model and status Power supply failure alarming		
MTBF	> 400,000 hours		
Energy efficiency	-	Yes	-

Certification and Regulatory Compliance	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
Safety regulations	IEC 62368-1 EN 62368-1		
EMC regulations	EN 300386, EN 55032 Class A, EN 55035, EN IEC 61000-3-2, EN 61000-3-3, EN 61000-4-2, EN IEC 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN IEC 61000-4-11		

Product Information	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
Warranty	5 years		

Software Specifications

Layer 2 Features	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
VLAN	IEEE 802.1Q Port-based VLAN MAC-based VLAN Voice VLAN IP/Subnet-based VLAN Protocol-based VLAN Private VLAN Super VLAN GVRP		
Spanning tree	IEEE802.1d STP IEEE802.1w RSTP Standard 802.1s MSTP		
LLDP	LLDP LLDP-MED		
Basic QinQ	Basic QinQ Transparent transmission of double-tagged packets		
Selective QinQ	Selective QinQ		
REUP	REUP		
RLDP	RLDP		
ERPS(G.8032)	ERPS(G.8032)		

Layer 3 Features	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
ARP	ARP anyIP		
ND	Neighbor discovery		
VRF	IPv4 and IPv6 VRF		

Routing Features	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
Static routing	IPv4 static routing IPv6 static routing		
OSPF	OSPFv2 basics OSPFv3 basics		

Routing Features	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
BGP4	BGP4 basics		
BGP4+	BGP4+ basics		
IS-ISv4	IS-ISv4 basics		
IS-ISv6	IS-ISv6 basics		
RIP	RIP RIPv2		
RIPng	RIPng		
PBR	IPv4 PBR IPv6 PBR		

Multicast Features	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
IGMP snooping	IGMP snooping v1/v2 IGMP snooping v3		
IGMP	IGMPv1/v2/v3 IGMP proxy		
MLD snooping	MLD snooping MLD snooping v2		
MLD	MLDv1/v2		
PIM-SMv4	PIM-SMv4 PIM-SSMv4		
PIM-DMv4	PIM-DMv4		
PIM-SMv6	PIM-SMv6 PIM-SSMv6		
MSDP	MSDP		

ACL and QoS	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
ACL	IP standard ACL IP extended ACL MAC extended ACL IPv6 ACL Expert ACL Time-based ACL ACL-based redirection ACL80		
QoS	Traffic classification based on 802.1p priorities, DSCP priorities, and IP precedences SP		

ACL and QoS	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
	WRR SP+WRR DRR SP+DRR WFQ SP+WFQ Congestion avoidance: tail drop RED/WRED Traffic shaping (ingress/egress)		

Security Features	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
802.1X	Port-based authentication MAC-based authentication		
AAA	AAA		
Web-based authentication	HTTP-based authentication HTTPS-based authentication		
IP source guard	IP source guard		
IPv6 source guard	IPv6 source guard		
SAVI	SAVI		
Global IP-MAC binding	Configuring global IP-MAC binding entries		
IPv4 uRPF	Supporting strict and loose modes, and allowing default routes to be used for uRPF checks.		
TACACS+	TACACS+		
CPP	Hardware CPP		
Port isolation	Port isolation		
RADIUS	RADIUS		
Port Security	Port Security		
NFPP	NFPP		
URPF	URPF		

High Availability	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
VSU	Device virtualization		

High Availability	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
VRRP	IPv4 VRRPv2 IPv4 VRRPv3 IPv6 VRRP		
VRRP+	IPv4 VRRP+ IPv6 VRRP+		
BFD	BFD detection		
DLDP	DLDP		

Interface Features	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
Aggregate interface	LACP basics		
Mirroring	SPAN RSPAN ERSPAN		

Management Features	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
SNMP	SNMPv1/v2c/v3 RMON (1, 2, 3, 9)		
SSH	SSHv2 SSHv1		
sFlow	sFlow		
gRPC	gRPC framework		
NETCONF	NETCONF		
SON	SON		
Cybrey Cloud	Cybrey Cloud		

IP Services	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
DHCP	DHCPv4 client DHCPv4 server DHCPv4 relay DHCPv4 snooping DHCPv6 client DHCPv6 relay DHCPv6 snooping		
ND snooping	ND snooping		
DNS	DNS client DNSv6 client		

IP Services	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
NTP	NTP client NTP server		
SNTP	SNTP client SNTP		
FTP	FTP client FTP server		
TFTP	TFTP client TFTP server		

System Features	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
USB	USB 2.0		

Performance Capacity

Layer 2 Features	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
Maximum number of global MAC addresses (The device must be able to learn the maximum number of MAC addresses in the full-mesh test model.)	Default: 32000 (subject to the UFT capacity)	Default: 32000 (subject to the UFT capacity)	Default: 80000 (subject to the UFT capacity)
Maximum number of created VLANs	4094		
Jumbo frame length / Port MTU	9216		
Layer 2 traffic convergence time	RJ45 port: 800 ms Optical port: 200 ms	RJ45 port: 800 ms Optical port: 200 ms	≤ 200 ms
Layer 3 Features	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
Maximum number of ARP entries	14000	14000	Recommended default: 32000 (subject to the UFT capacity)
Routing Features	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
IPv4 routing table size	16000	16000	Recommended default: 12000 (subject to the UFT capacity)
IPv6 routing table size	8000 (resources shared with IPv4 routing)	8000 (resources shared with IPv4 routing)	Recommended default: 6000 (resources shared with IPv4 routing) (subject to the UFT capacity)
Multicast Features	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
Maximum number of IPv4 multicast routing table entries	4000	4000	8000
Maximum number of IPv6 multicast routing table entries	2000	2000	4000
ACL and QoS	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
Maximum number of inbound ACE	2500	2500	5000

ACL and QoS	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
entries			
Maximum number of outbound ACE entries	1000		
Maximum number of QoS hardware queues	8 (shared by unicast and multicast traffic)	8 (shared by unicast and multicast traffic)	8 unicast queues + 8 multicast queues

High Availability	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
Maximum number of VSU members	8		

Package Contents

Device	RG-CS65-12XS4VS2QXS-D	RG-CS65-24SFP/8GT4XS-D	RG-CS65-24XS8VS2QXS-D
Main unit	1		
Accessories	**RG-CS65-12XS4VS2QXS-D**	**RG-CS65-24SFP/8GT4XS-D**	**RG-CS65-24XS8VS2QXS-D**
Rack-mount bracket	2		
Rack-mount guide	2		
Rack-mount guide rail	2		
Screw	10 x M4 x 8 mm screws		
Rubber pad	4		
Grounding wire	1		
Manual	**RG-CS65-12XS4VS2QXS-D**	**RG-CS65-24SFP/8GT4XS-D**	**RG-CS65-24XS8VS2QXS-D**
User Manual	1		
Warranty Card	1		

Protocol Compliance

RG-CS65 Series	
Organization	Standards and Protocol
IETF	RFC 1058 Routing Information Protocol (RIP) RFC 1157 A Simple Network Management Protocol (SNMP) RFC 1305 Network Time Protocol Version 3 (NTP) RFC 1349 Internet Protocol (IP) RFC 1350 TFTP Protocol (revision 2) RFC 1519 CIDR RFC 1583 OSPF Version 2 RFC 1591 Domain Name System Structure and Delegation RFC 1643 Ethernet Interface MIB RFC 1757 Remote Network Monitoring (RMON) RFC 1812 Requirements for IP Version 4 Router RFC 1901 Introduction to Community-based SNMPv2 RFC 1902-1907 SNMP v2 RFC 1918 Address Allocation for Private Internet RFC 1981 Path MTU Discovery for IP version 6 RFC 1997 BGP Communities Attribute RFC 2131 Dynamic Host Configuration Protocol (DHCP) RFC 2132 DHCP Options and BOOTP Vendor Extensions RFC 2236 IGMP RFC 2328 OSPF Version 2 RFC 2385 Protection of BGP Sessions via the TCP MD5 Signature Option RFC 2439 BGP Route Flap Damping RFC 2460 Internet Protocol, Version 6 Specification (IPv6) RFC 2461 Neighbor Discovery for IP Version 6 (IPv6) RFC 2462 IPv6 Stateless Address Auto configuration RFC 2463 Internet Control Message Protocol for IPv6 (ICMPv6) RFC 2545 Use of BGP 4 Multiprotocol Extensions for IPv6 Inter Domain Routing RFC 2571 SNMP Management Frameworks RFC 2711 IPv6 Router Alert Option RFC 2787 Definitions of Managed Objects for the Virtual Router Redundancy Protocol RFC 2863 The Interfaces Group MIB RFC 2865 Remote Authentication Dial In User Service (RADIUS) RFC 2918 Route Refresh Capability for BGP 4 RFC 2925 Definitions of Managed Objects for Remote Ping, Traceroute, and Lookup Operations (Ping only) RFC 2934 Protocol Independent Multicast MIB for IPv4 RFC 3046 DHCP Option82 RFC 3065 Autonomous System Confederation for BGP RFC 3101 OSPF Not so stubby area option RFC 3137 OSPF Stub Router Advertisement sFlow RFC 3417 (SNMP Transport Mappings) RFC 3418 Management Information Base (MIB) for the Simple Network Management Protocol (SNMP) RFC 3509 Alternative Implementations of OSPF Area Border Routers RFC 3513 IP Version 6 Addressing Architecture RFC 3575 IANA Considerations for RADIUS RFC 3579 RADIUS Support For EAP RFC 3623 Graceful OSPF Restart RFC 3768 VRRP RFC 3810 Multicast Listener Discovery Version 2 (MLDv2) for IPv6 RFC 3973 PIM Dense Mode RFC 4022 MIB for TCP RFC 4213 Basic Transition Mechanisms for IPv6 Hosts and Routers RFC 4251 The Secure Shell (SSH) Protocol RFC 4252 SSHv6 Authentication RFC 4253 SSHv6 Transport Layer RFC 4254 SSHv6 Connection RFC 4271 A Border Gateway Protocol 4 (BGP 4) RFC 4273 Definitions of Managed Objects for BGP 4 RFC 4291 IP Version 6 Addressing Architecture RFC 4292 IP Forwarding Table MIB RFC 4293 Management Information Base for the Internet Protocol (IP) RFC 4360 BGP Extended Communities Attribute RFC 4419 Key Exchange for SSH RFC 4443 ICMPV6

Protocol Compliance

RG-CS65 Series	
Organization	Standards and Protocol
IETF	RFC 4456 BGP Route Reflection: An Alternative to Full Mesh Internal BGP (IBGP) RFC 4486 Subcodes for BGP Cease Notification Message RFC 4552 Authentication/Confidentiality for OSPFv3 RFC 4601 PIM Sparse Mode RFC 4607 Source Specific Multicast for IP RFC 4724 Graceful Restart Mechanism for BGP RFC 4750 OSPFv2 MIB partial support no SetMIB RFC 4760 Multiprotocol Extensions for BGP 4 RFC 4861 IPv6 Neighbor Discovery RFC 4862 IPv6 Stateless Address Auto configuration RFC 4940 IANA Considerations for OSPF RFC 5065 Autonomous System Confederation for BGP RFC 5187 OSPFv3 Graceful Restart RFC 5340 OSPFv3 for IPv6 RFC 5424 Syslog Protocol RFC 5492 Capabilities Advertisement with BGP 4 RFC 5722 Handling of Overlapping IPv6 Fragments RFC 5798 VRRP RFC 5905 Network Time Protocol Version 4: Protocol and Algorithms Specification RFC 6020 YANG - A Data Modeling Language for the Network Configuration Protocol (NETCONF) RFC 6241 Network Configuration Protocol (NETCONF) RFC 6620 FCFS SAVI RFC 768 User Datagram Protocol (UDP) RFC 783 TFTP Protocol (revision 2) RFC 792 Internet Control Message Protocol (ICMP) RFC 793 Transmission Control Protocol (TCP) RFC 826 Ethernet Address Resolution Protocol (ARP) RFC 854 Telnet Protocol Specification RFC 959 File Transfer Protocol (FTP)
IEEE	IEEE 802.2 Logical Link Control IEEE 802.1ab Link Layer Discovery Protocol IEEE 802.1ad Provider Bridges IEEE 802.1AX 2008 Link Aggregation IEEE 802.1D Media Access Control (MAC) Bridges IEEE 802.1D Spanning Tree Protocol IEEE 802.1p Priority IEEE 802.1p Traffic Class Expediting and Dynamic Multicast Filtering IEEE 802.1Q Virtual Bridged Local Area Networks IEEE 802.1sMultiple Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1x Port based network access control protocol IEEE Std 802.3 CSMA/CD IEEE Std 802.3ab 1000BASE-T specification IEEE 802.3ad Link Aggregation Control Protocol (LACP) IEEE Std 802.3ae 10GE WEN/LAN Standard IEEE Std 802.3x Full Duplex and flow control IEEE Std 802.3z Gigabit Ethernet Standard

Ordering Information

The devices, expansion modules, power modules, and other components can be ordered as needed. Before ordering any expansion module or power module, contact the online customer service for the latest compatibility and support information.

Devices

Model	Description
RG-CS65-24SFP/8GT4XS-D	24 x 1GE SFP ports (ports 1 to 16 are 1GE SFP ports, ports 1 to 8 are 1GE SFP/RJ45 combo ports), 4 x 1GE/2.5GE/10GE SFP+ ports, hot-swappable fan modules, 2 x pluggable power modules, requiring at least one RG-PA150IB-FC power module.
RG-CS65-12XS4VS2QXS-D	12 x 1GE/2.5GE/10GE SFP+ ports, 4 x 10GE/25GE SFP28 ports, 2 x 40GE QSFP+ ports, hot-swappable fan modules, 2 x pluggable power modules, requiring at least one RG-PA150IB-FC power module.
RG-CS65-24XS8VS2QXS-D	24 x 1GE/2.5GE/10GE SFP+ ports, 8 x 10GE/25GE SFP28 ports, 2 x 40GE QSFP+ ports, hot-swappable fan modules, 2 x pluggable power modules, requiring at least one RG-PA550I-FC power module.
RG-PA150IB-FC	150 W AC power module
RG-PA550I-FC	550 W AC power module

Optical Transceivers and Cables

1GE

Model	Description
Mini-GBIC-GT	1000BASE-X to 1000BASE-T, copper SFP transceiver, RJ45, 100 m over Cat 5e/6/6a Mini-GBIC-GT. The port needs to be configured with auto-negotiation
CO-GE-SFP-SX-MM850	1000BASE-SX, SFP transceiver, 850 nm, Duplex LC, 500 m over MMF
CO-GE-SFP-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
GE-SFP-LH40-SM1310-BIDI	1000BASE-LH, SFP transceiver, Tx1310/Rx1550, BiDi LC, 40 km over SMF
GE-SFP-LH40-SM1550-BIDI	1000BASE-LH, SFP transceiver, Tx1550/Rx1310, BiDi LC, 40 km over SMF

2.5GE

Model	Description
2.5G-SFP-LX03-SM1310-BIDI-I	2.5GBASE-LX, SFP transceiver, TX1310/RX1550, BiDi LC, 3 km over SMF
2.5G-SFP-LX03-SM1550-BIDI-I	2.5GBASE-LX, SFP transceiver, TX1550/RX1310, BiDi LC, 3 km over SMF

10GE

Model	Description
CO-XG-SFP-T	10GBASE-X to 10GBASE-T, copper SFP+ transceiver, RJ45, 30 m over Cat 6a/7
CO-XG-SFP-SR-MM850	10GBASE-SR, SFP+ transceiver, 850nm, Duplex LC, 300m over MMF
CO-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-AOC1M	10GBASE, SFP+ active optical cable (AOC), 1 m, including one cable and two optical transceivers
XG-SFP-AOC3M	10GBASE, SFP+ active optical cable (AOC), 3 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

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-AOC7M(M)	25GBASE, SFP28 active optical cable (AOC), 7 m, including one cable and two optical transceivers

40GE

Model	Description
40G-QSFP-SR-MM850	40GBASE-SR, QSFP+ transceiver, 850 nm, MPO 1 x 12, 150 m over OM4 MMF, 100 m over OM3 MMF
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	40G LX4 module, QSFP+ form factor, Duplex LC connector, 150 m (492.13 ft.) over OM3/OM4 MMF, or 2 km (6,561.68 ft.) over SMF
40G-AOC-5M	40GBASE, QSFP+ active optical cable (AOC), 5 m, including one cable and two optical transceivers
40G-AOC-10M	40GBASE, QSFP+ active optical cable (AOC), 10 m, including one cable and two optical transceivers
40G-AOC-30M	40G QSFP+ AOC, 30 m (98.43 ft.)

Warranty

For more information about warranty terms and periods, contact your local sales agency.
Warranty terms: https://www.ruijie.com/en-global/support/servicepolicy
Warranty period: https://www.ruijie.com/en-global/support/servicepolicy/cybrey-product-warranty
Note: The warranty terms are subject to the requirements of different countries and distributors.

More Information

To learn more about the product, please visit our website or contact your local sales representative.

- 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: service_rj@ruijienetworks.com


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