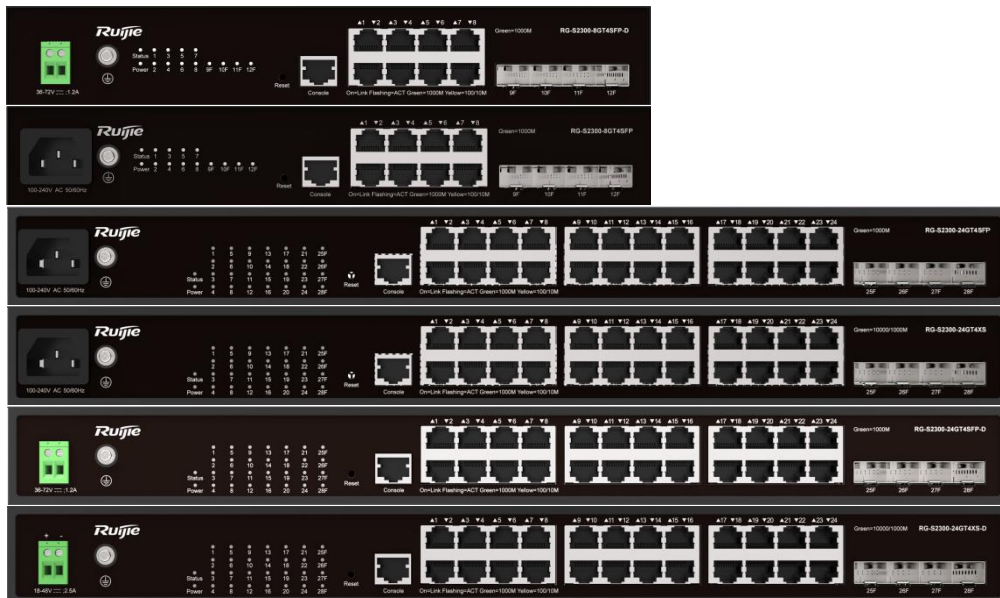


Overview

RG-S2300 series gigabit Ethernet access switches launched by Ruijie Networks boast high cost performance in a variety of scenarios, including industrial zones, factories, government agencies and communities. The LEDs in the panel dynamically show the status of the connection and operation of the device, making fault detecting easy and thus facilitating maintenance and management. Moreover, advanced functions for network management are also provided in this series switches, including redundant ring network, VLAN, clustering, QoS, speed control, port mirroring, fault alert and online hardware upgrading.

For this series, there are 8-port and 24-port models available with features for better network experience: self-adaptive ports can perform in 10/100/1000M network as well as a full duplex or half duplex mode; auto learning of MAC addresses ensures error-free data transmission; store-and-forward mode prevents damaged data packets from spreading in the network; traffic control protects the network from being affected by vast amounts of instantaneous data; auto MDI/MDIX and non-blocking wire-speed transmission are supported on ports.



Feature

Wide Operation Temperature Range

The operating temperature of the switches ranges from 0°C to 50°C (32°F to 122°F).

A wide operation temperature range increases the product's environmental applicability and its service life so as to protect customers' property.

Fanless Design

The switches are designed to dissipate heat without fans, producing no noise pollution.

Multiple Port Types

Various port types are offered for connection of terminals of multiple kinds.

Dying Gasp

When power outage occurs, a switch sends syslog and SNMP Trap messages to a remote server so that network administrators can fast discover and fix it.

High Reliability

Spanning Tree Protocols, including STP, RSTP and MASTP, guarantee fast convergence and improve fault tolerance. These also maintain stable network operation and link load balancing, ensure optimal network channel usage and improve redundant link utilization.

Rapid Link Detection Protocol (RDLP) not only quick detects link interruption and fiber link unidirectionality, but also detects loops on ports. In addition, it prevents loop failures caused by connecting hubs or other devices to the port.

Ruijie's patented CPU Protect Policy (CPP) classifies and prioritizes the data streams sent to CPU. It also performs bandwidth limit as needed to protect the CPU from being occupied by illegal traffic and suffering malicious attacks and resources consumption so as to ensure the security of CPU, and finally to protect the switches.

Simple and Easy Network Maintenance

Fault self-recovery is supported. As an internal fault occurs, the switches will reboot automatically for recovery.

Web management is supported. As long as a cable is connected, users can configure the switches via the Web page.

Remote management, the storage and recovery of configurations, remote failure diagnosis, and the analysis of history logs are also supported.

Technical Specifications

Model (AC Power)	RG-S2300-8GT4SFP	RG-S2300-24GT4SFP	RG-S2300-24GT4XS
Model (DC Power)	RG-S2300-8GT4SFP-D	RG-S2300-24GT4SFP-D	RG-S2300-24GT4XS-D
Key Features			
Size (W x D x H)	280 x 180 x 44 mm	440 x 208 x 44 mm	
Energy Saving	IEEE 802.3az standard EEE energy saving technology		
Basic Features			

Model (AC Power)	RG-S2300-8GT4SFP	RG-S2300-24GT4SFP	RG-S2300-24GT4XS
Model (DC Power)	RG-S2300-8GT4SFP-D	RG-S2300-24GT4SFP-D	RG-S2300-24GT4XS-D
Fixed Ports	<ul style="list-style-type: none"> ● 8 10/100/1000M adaptive electrical ports ● 4 1 GE SFP port ● 1 Console port ● 1 power slot 	<ul style="list-style-type: none"> ● 24 10/100/1000M adaptive electrical ports ● 4 1 GE SFP ports ● 1 Console port ● 1 power slot 	<ul style="list-style-type: none"> ● 24 10/100/1000M adaptive electrical ports ● 4 1/10GE SFP+ ports ● 1 Console port ● 1 power slot
Switching Capacity	24 Gbps	56 Gbps	128 Gbps
Packet Forwarding Rate	17.85 Mpps	41.66 Mpps	95.23 Mpps
Cache	1.5 MB		
Software Specifications			
MAC Address	16K <ul style="list-style-type: none"> ● Address filtering ● Static address 		
802.1Q VLAN	<ul style="list-style-type: none"> ● 4K 802.1Q VLAN ● Port-based VLAN ● Protocol-based VLAN ● Private VLAN 		
QinQ	<ul style="list-style-type: none"> ● Basic QinQ ● Selective QinQ (C-Tag) 		
Layer 2 Ring Network	<ul style="list-style-type: none"> ● STP ● RSTP ● MSTP ● RLDP 		
AP	<ul style="list-style-type: none"> ● Selective load balancing ● LACP 		
Multicast	<ul style="list-style-type: none"> ● IGMP Snooping ● IGMP v1/v2/v3 		
Routing	<ul style="list-style-type: none"> ● IPv4/IPv6 static routing/direct routing ● RIP, RIPng 		
DHCP	<ul style="list-style-type: none"> ● DHCP Server ● DHCP Client ● DHCP Snooping ● DHCP Relay 		
PPPoE	PPPoE Intermediate Agent		
QoS	<ul style="list-style-type: none"> ● 802.1p/DSCP/TOS/TCP/UDP forwarding classification ● Multiple queue scheduling algorithms, such as SP, WRP and SP+WRP 		
ACL	<ul style="list-style-type: none"> ● L2-L4 ACL ● ACL 80 		

Model (AC Power)	RG-S2300-8GT4SFP	RG-S2300-24GT4SFP	RG-S2300-24GT4XS
Model (DC Power)	RG-S2300-8GT4SFP-D	RG-S2300-24GT4SFP-D	RG-S2300-24GT4XS-D
IPv6 Basic Protocol	<ul style="list-style-type: none"> ● IPv6 addressing ● Neighbor Discovery (ND) ● IPv6 ACL ● ICMPv6 ● IPv6 Ping ● IPv6 Tracert 		
Security	<ul style="list-style-type: none"> ● Unknown unicast/multicast/broadcast suppression ● Port security ● MAC address blacklisting ● ARP Check ● IP & MAC binding ● Radius and TACAS+ ● AAA security authentication ● CPP 		
Management	<ul style="list-style-type: none"> ● SNMP ● CLI (SSH/Telnet/Console) ● Syslog/Debug ● NTP ● TFTP ● Web ● Dying Gasp ● Dual operating systems 		
Physical Features			
Fan	Fanless		
Power Supply	AC input: <ul style="list-style-type: none"> ● Rated voltage range: 100 V to 240 V ● Maximum voltage range: 90 V to 264 V ● Frequency: 50/60 HZ DC input: <ul style="list-style-type: none"> ● -36 V to -72 V 	AC input: <ul style="list-style-type: none"> ● Rated voltage range: 100 V to 240 V ● Maximum voltage range: 90 V to 264 V ● Frequency: 50/60 HZ DC input: <ul style="list-style-type: none"> ● -18 V to -48 V 	
Power	15 W	25 W	
Temperature	<ul style="list-style-type: none"> ● Operating temperature: 0°C to 50°C (32°F to 122°F) ● Storage: -40°C to 70°C (-40°F to 158°F) 		
Humidity	<ul style="list-style-type: none"> ● Operating humidity: 10% to 90% (Non-Condensing) ● Storage humidity: 5% to 90% (Non-Condensing) 		

Ordering Information

RG-S2300-8GT4SFP	<ul style="list-style-type: none"> ● 8 10/100/1000M adaptive electrical ports ● 4 1 GE SFP ports ● 1 Console port ● 1 AC power slot ● No fans
RG-S2300-8GT4SFP-D	<ul style="list-style-type: none"> ● 8 10/100/1000M adaptive electrical ports ● 4 1 GE SFP ports ● 1 Console port ● 1 DC power slot with voltage ranging from -36 V to -72V ● No fans
RG-S2300-24GT4SFP	<ul style="list-style-type: none"> ● 24 10/100/1000M adaptive electrical ports ● 4 1 GE SFP ports ● 1 Console port ● 1 AC power slot ● No fans
RG-S2300-24GT4SFP-D	<ul style="list-style-type: none"> ● 24 10/100/1000M adaptive electrical ports ● 4 1 GE SFP ports ● 1 Console port ● 1 DC power slot with the voltage ranging from -36 V to -72V ● No fans
RG-S2300-24GT4XS	<ul style="list-style-type: none"> ● 24 10/100/1000M adaptive electrical ports ● 4 1/10 GE SFP+ ports ● 1 Console port ● 1 AC power slot ● No fans
RG-S2300-24GT4XS-D	<ul style="list-style-type: none"> ● 24 10/100/1000M adaptive electrical ports ● 4 1/10 GE SFP+ ports ● 1 Console port ● 1 DC power slot with the voltage ranging from -18 V to -48 V ● No fans