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RG- NBS5100&5200 Series Layer 3 Switches Datasheet V1.0

Ruijie Networks Co., Ltd.

Revision Record

Version	Department	Revised by	Reviewed by	Revision date	Revision details
V1.0	SMB Department	Yang Lin		2020/5/19	First draft

Contents

1 Product Photo

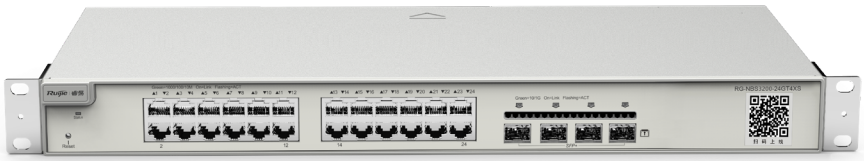

Fig 1 RG-NBS5100-24GT4SFP

Fig 2 RG-NBS5100-48GT4SFP

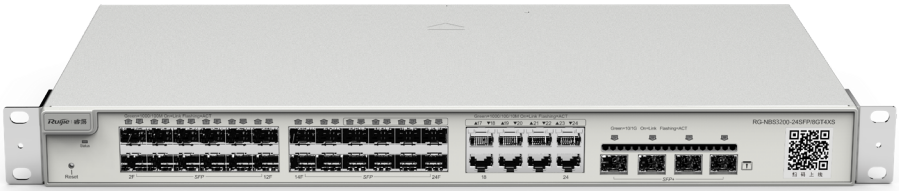

Fig 3 RG-NBS5200-24SFP/8GT4XS

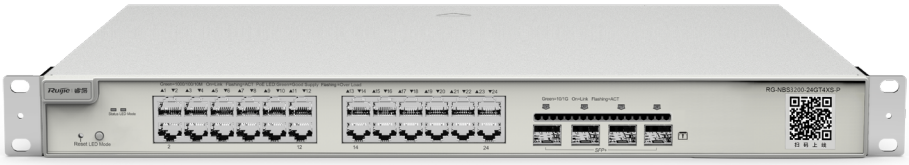

Fig 4 RG-NBS5200-24GT4XS

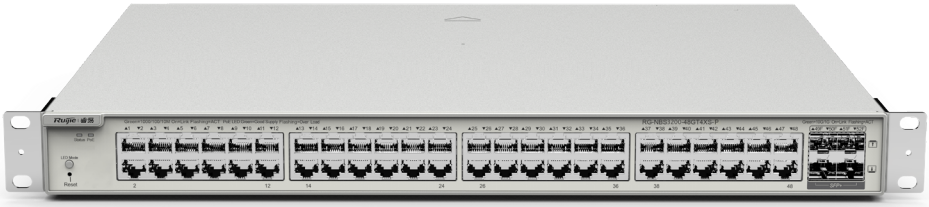

Fig 5 RG-NBS5200-48GT4XS

2 Product Overview

Ruijie RG-NBS5100&5200 Series Switches are the next-generation high-performance, high-security and multi-service Layer 3 Ethernet switches. Adopting an efficient hardware architecture design, this switch series provides larger MAC address table size, faster hardware processing performance, and more convenient operating experience.

RG-NBS5100 series provides Gigabit access and Gigabit uplink, while RG-NBS5200 series provides Gigabit access and 10G uplink ports. Every switch of this series offers 4 fixed 10G fiber ports with high-performance uplink capability.

RG-NBS5100&5200 series switches provide comprehensive end-to-end QoS as well as flexible and rich security settings for small and medium-sized networks at an extremely high price-performance ratio to meet the needs of high-speed, secure and smart enterprise networks.

3 Product Features

Energy Saving

Responding to the call for energy saving, RG-NBS5100&5200 series switches adopt a variety of energy-saving design concepts after in-depth research and exploration on the problems of traditional switches in terms of noise and energy consumption, solving the problem of excessive noise when deployed in the office environment and the high energy consumption problem caused by large-scale deployment of access equipment.

RG-NBS5100&5200 series switches adopt the next-generation hardware architecture as well as advanced energy-saving circuit design and components to save energy for users while reducing noise pollution.

With Energy-Efficient Ethernet (EEE), if the port of RG-NBS5100&5200 is idle for a continuous period of time, the system will set the port to energy-saving mode. When there is a need of packet transmission, RG-NBS5100&5200 will wake up the port to resume service via signals sent on regular intervals to achieve energy saving.

Surge Protection Ensuring Product Stability

The 6KV surge protection of the port reduces the probability of being damaged by surges and improves the customer's network stability.

Auto-networking for Switches Allowing One-step Project Management

RG-NBS5100&5200 can obtain the IP address automatically from the gateway and connect to the external network without configuration. It also supports auto-networking for switches. Users can scan the QR code of any switch in the network using the mobile app to automatically add all switches in the network to the project.

Ruijie Cloud App/ Ruijie Cloud Platform Remote Management

RG-NBS5100&5200 not only supports web interface management, but also supports mobile app and Ruijie Cloud platform remote management. Users can view the network status, modify the configuration, and troubleshoot at home.

4 Technical Specifications

Model	RG-NBS5200-24GT4XS	RG-NBS5200-48GT4XS	RG-NBS5200-24SFP/8GT4XS	RG-NBS5100-24GT4SFP	RG-NBS5100-48GT4SFP
Fixed ports	24 10/100/1000Base-T ports, 4 SFP+ 10GBase-X ports, fixed single AC power supply	48 10/100/1000Base-T ports, 4 SFP+ 10GBase-X ports, fixed single AC power supply	24 SFP ports (SFP: 100/1000M ports), 8 combo 10/100/1000Base-T ports, 4 SFP+ 10GBase-X ports	24 10/100/1000Base-T ports, 4 SFP 1000Base-X ports, fixed single AC power supply	48 10/100/1000Base-T ports, 4 SFP 1000Base-X ports, fixed single AC power supply
Switching capacity	336Gbps	336Gbps	336Gbps	336Gbps	336Gbps
Packet forwarding rate	108Mpps	144Mpps	108Mpps	51Mpps	87Mpps
MAC address	Support static MAC address, MAC address filtering				
MAC address table size	16K				
Number of VLANs	4094				
Layer 3 aggregation ports	16				
Link aggregation	Support				
Port mirroring	Many-to-one mirroring				
Spanning tree	STP, RSTP				
LLDP	Support				
IP routing	Support static routing				

ACL	IP standard ACL MAC extended ACL IP extended ACL Port ACL for Layer 2 ports (physical port / AP)			
QoS	Port-based speed limit (ingress/egress)			
Security	Port protection Hardware CPP			
Management	Web management, Ruijie Cloud platform or Ruijie Cloud app management			
DHCP	DHCP snooping			
EEE	Support			
Physical specifications				
Dimensions	440x207.5x43.6mm	440×267.5×43.6mm	440x207.5x43.6 mm	440×267.5×43.6 mm
Temperature	Operating temperature: 0 ℃ ~ 50 ℃ Storage temperature: -40 ℃ ~ 70 ℃			
Humidity	Operating humidity: 10% ~ 90% RH Storage humidity: 5% ~ 90% RH			

5 Ordering Information

Model	Description
RG-NBS5200-24GT4XS	24 10/100/1000Base-T ports, 4 SFP+ 10GBase-X ports, support unified management via Ruijie Cloud app and Ruijie Cloud platform
RG-NBS5200-48GT4XS	48 10/100/1000Base-T ports, 4 SFP+ 10GBase-X ports, support unified management via Ruijie Cloud app and Ruijie Cloud platform
RG-NBS5200-24SFP/8GT4XS	24-port SFP switch (SFP: 100/1000Base-X ports), 8 combo 10/100/1000Base-T ports, 4 fixed SFP+ 10GBase-X ports, support unified management via Ruijie Cloud app and Ruijie Cloud platform
RG-NBS5100-24GT4SFP	24 10/100/1000Base-T ports, 4 SFP 1000Base-X ports, support unified management via Ruijie Cloud app and Ruijie Cloud platform
RG-NBS5100-48GT4SFP	48 10/100/1000Base-T ports, 4 SFP 1000Base-X ports, support unified management via Ruijie Cloud app and Ruijie Cloud platform