Document Type: Datasheet

Confidentiality: C

RG-NBS3200 Series

10G Layer 2 Switches

Datasheet

V1.0

Ruijie Networks Co., Ltd.

INNOVATION
Beyond Networks

R e v i s i o n   R e c o r d

Version	Department	Revised by	Reviewed by	Revision date	Revision details
V1.0	SMB Department	Yang Lin		2020/2/17	First draft

INNOVATION
Beyond Networks

C o n t e n t s

INNOVATION
Beyond Networks

1 Product Photo

Fig 1 RG-NBS3200-24GT4XS

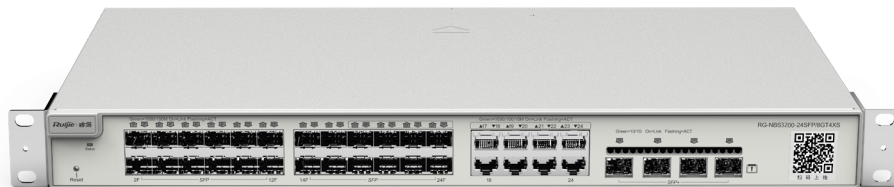Fig 2 RG-NBS3200-48GT4XS / RG-NBS3200-48GT4XS-P

Fig 3 RG-NBS3200-24SFP/8GT4XS

Fig 4 RG-NBS3200-24GT4XS-P

Fig 5 RG-NBS3200-48GT4XS-P

2 Product Overview

Ruijie RG-NBS3200 Series Switches are the next-generation high-performance, high-security and multi-service Layer 2 Ethernet switches with gigabit and 10-gigabit ports. Adopting an efficient hardware architecture design and equipped with Ruijie's OpenWRT operating system, this switch series provides larger MAC address table size, faster hardware processing performance, and more convenient operating experience.

RG-NBS3200 series provides gigabit and 10-gigabit uplink ports. Every switch of this series offers 4 fixed 10G fiber ports with high-performance uplink capability.

RG-NBS3200 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

Flexible VLAN Division

In the office network, in order to isolate network access between different departments to avoid PCs infected by virus affecting the entire network, it is often necessary to divide the internal network into VLANs according to departments, floors, etc. to isolate the broadcast domain and improve the stability of the network. Reyee Series managed switches provide a convenient and flexible way to divide VLANs, allowing you to assign the ports to different VLANs as needed. Users in different VLANs do not affect each other, creating a more stable network for the users.

Energy Saving

Responding to the call for energy saving, RG-NBS3200 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-NBS3200 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-NBS3200 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-NBS3200 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.

MANET for Switches Allowing One-step Project Management

RG-NBS3200 can obtain the IP address automatically from the gateway and connect to the external network without configuration. It also supports MANET for switches. Users can scan the QR code of any switch in the network using the Ruijie Cloud app to automatically add all switches in the network to the project.

Ruijie Cloud App/ Ruijie Cloud Platform Remote Management

RG-NBS3200 not only supports web interface management, but also supports Ruijie Cloud 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-NBS3200-24GT4XS	RG-NBS3200-48GT4XS	RG-NBS3200-24SFP/8GT4XS	RG-NBS3200-24GT4XS-P RG-NBS3200-48GT4XS-P
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 (support PoE and PoE+), 4 SFP+ 10GBase-X ports 48 10/100/1000Base-T ports (support PoE and PoE+), 4 SFP+ 10GBase-X ports
Switching capacity	336Gbps	336Gbps	336Gbps	336Gbps
Packet forwarding rate	96Mpps	132Mpps	96Mpp	RG-NBS3200-24GT4XS-P 96Mpps RG-NBS3200-48GT4XS-P 132Mpps
MAC address	Support static MAC address, MAC address filtering			
MAC address table size	16K			
Number of VLANs	4094			
Link aggregation	Support			
Port mirroring	Many-to-one mirroring			
Spanning tree	STP, RSTP			
LLDP	Support			
IP routing	N/A			
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 or Ruijie Cloud app management
DHCP	DHCP snooping
EEE	Support
Physical specifications	

Dimensions	440x207.5x43.6mm	440×267.5×43.6mm	440x357.6x43.6mm
PoE	N/A		24/48 Base-T ports (support PoE and PoE+) Maximum PoE / PoE+ output power per switch: 370W Maximum output power per port: 30W
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-NBS3200-24GT4XS	24 10/100/1000Base-T ports, 4 SFP+ 10GBase-X ports, support unified management via app and Ruijie Cloud platform
RG-NBS3200-48GT4XS	48 10/100/1000Base-T ports, 4 SFP+ 10GBase-X ports, support unified management via app and Ruijie Cloud platform
RG-NBS3200-24SFP/8GT4XS	24-port SFP switch (SFP: 100/1000M ports), 8 combo 10/100/1000Base-T ports, 4 fixed SFP+ 10GBase-X ports, support unified management via app and Ruijie Cloud platform
RG-NBS3200-24GT4XS-P	24 10/100/1000Base-T ports (support PoE and PoE+), 4 SFP+ 10GBase-X ports, 370W PoE power, support unified management via app and Ruijie Cloud platform
RG-NBS3200-48GT4XS-P	48 10/100/1000Base-T ports (support PoE and PoE+), 4 SFP+ 10GBase-X ports, 370W PoE power, support unified management via app and Ruijie Cloud platform