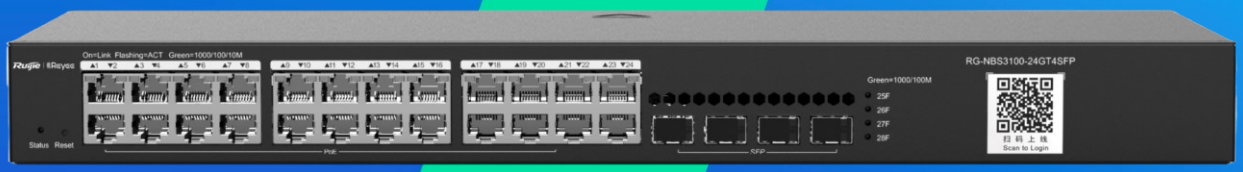
DATASHEET

RG-NBS3100-24GT4SFP

28-Port Gigabit Layer 2 Cloud Managed Non-PoE Switch



Highlights

- 28-port gigabit Layer 2 managed non-PoE switch, 4 SFP uplinks
- Enterprise-class quality ensures high performance
- IP Camera Recognition, unique value for CCTV network
- Multiple security policies protect your network
- Lifetime management on Ruijie Cloud at anytime anywhere

Date: 2025.12.9

Highlight Features

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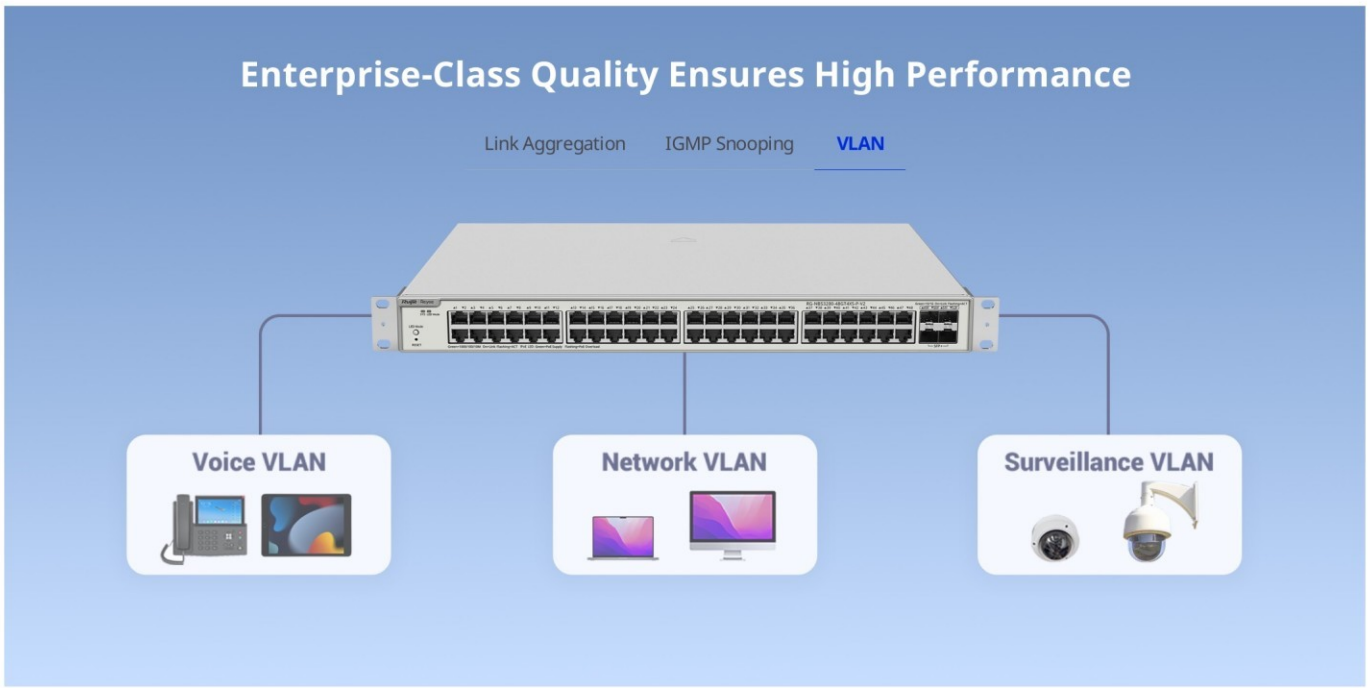

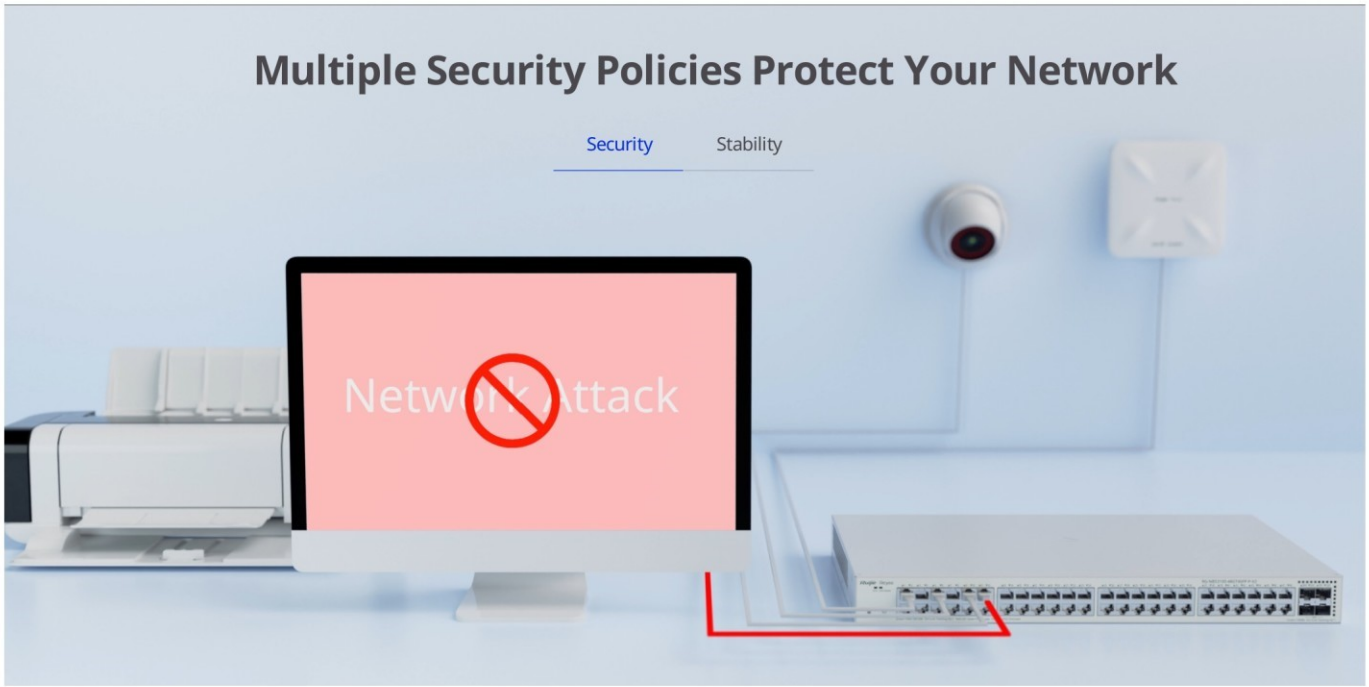

Highlight Features

Multiple Security Policies Protect Your Network

Security | Stability

CPU Utilization: 41%

Ruijie Cloud: Make Your Business Easy

- Support SON and zero-touch provisioning on Ruijie Cloud
- Configure VLANs on Ruijie Reyee App
- Monitor switch statistics at anytime, anywhere
- Simplify maintenance to reduce onsite time and costs

Product Information

Model	RG-NBS3100-24GT4SFP
Product Category	Layer 2

Hardware Specifications

Model	RG-NBS3100-24GT4SFP
Product Information	
Warranty	5 years
Port Specifications	
Total number of RJ45 ports	24
Total number of optical ports	4
Number of 1GE combo ports	No
Number of 1GE SFP ports	4
Number of 10GE SFP+ ports	No
Number of 10/100BASE-T ports	No
Number of 10/100/1000BASE-T ports	24
Number of 10/100/1000/2500BASE-T ports	No
Number of 100/1000/2.5G/5G/10GBASE-T ports	No
Module slots	No
Reset button	1
DIP switch	No
Power Supply and Consumption	
Power input	220 V AC power supply: ● 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 ● Maximum input current: 0.6 A
Maximum power consumption	21 W

Hardware Specifications

Model	RG-NBS3100-24GT4SFP
Power output	No
Power supply	Fixed power supply
System Specifications	
RAM	256 MB
Flash memory	16 MB
Forwarding rate	41.66 Mpps
Switching capacity	56 Gbps(bit/s)
Dimensions and Weight	
Casing	Metal
Product dimensions (W x D x H)	440 mm x 165 mm x 44 mm (17.32 in. x 6.5 in. x 1.73 in.)
Weight	2.4 kg (5.29 lbs) (without packaging materials)
Shipping weight	3.07 kg (6.77 lbs) (with packaging materials)
Environment and Reliability	
Hot swapping of fan modules	No
Fan	Fanless design
Cooling	Natural cooling
Acoustic noise	No
Mounting options	Rack
Hot swapping of cables	Service ports support hot swapping of cables.
MTBF	400,000 hours
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)

Hardware Specifications

Model	RG-NBS3100-24GT4SFP
Altitude	Operating altitude: –500 m to +5,000 m (–1,640.42 ft. to +16,404.20 ft.) Storage altitude: –500 m to +5,000 m (–1,640.42 ft. to +16,404.20 ft.)
Corrosion class	No
ESD protection	Contact discharge: 6 kV Air discharge: 8 kV
Surge protection	Service port: ±6 kV for common mode Power connector: ±6 kV for both common mode and differential mode
Certification and Regulatory Compliance	
EMC	EN 55032 EN 61000-3-2 EN 61000-3-3 EN 55035 EN 300 386
Safety compliance	IEC 62368-1
Certification	CE, FCC

Software Specifications

Model	RG-NBS3100-24GT4SFP
Authentication	
RADIUS	Yes
802.1X authentication	Yes
Port-based 802.1X authentication	Yes
MAC address-based 802.1X authentication	Yes
Guest VLAN	Yes
Basic Configurations	
PoE watchdog	No
Online upgrade	Yes
Ethernet Switching	
Maximum number of VLANs	4094
Maximum number of MAC address entries	8000
Interface flow control	Yes
MAC address-based VLAN	No
IP subnet – based VLAN assignment	No
IEEE 802.1Q VLAN	Yes
Basic QinQ	No
VLAN configuration supported on LAN ports	Yes
Voice VLAN	Yes
STP (IEEE 802.1d)	Yes
RSTP (IEEE 802.1w)	Yes
MSTP (IEEE 802.1s)	Yes
LLDP	Yes

Software Specifications

Model	RG-NBS3100-24GT4SFP
LLDP-MED	Yes
Static MAC address	Yes
MAC address filtering	Yes
Static aggregation	Yes
LACP	Yes
Inbound or outbound rate limiting based on interface traffic	Yes
Gateway Features	
802.1p priority-based traffic classification	Yes
DSCP priority-based traffic classification	Yes
Egress queues based on 802.1p and DSCP priorities	Yes
SP	Yes
WRR	Yes
SP+WRR	Yes
Global QoS	Yes
Interface	
Jumbo frame length (MTU)	9216 bytes (global configuration mode)
EEE	Yes
Cable test	Yes
IP Routing	
IPv4 static route	No
IPv6 static route	No
OSPFv2	No
OSPFv3	No

Software Specifications

Model	RG-NBS3100-24GT4SFP
IP Service	
Maximum number of ARP entries	1000
ARP	Yes
IPv4 ping	Yes
IPv4 traceroute	Yes
IPv6	Yes
ICMPv6	Yes
IPv6 ping	Yes
IPv6 traceroute	Yes
DNS client	Yes
DNSv6 client	Yes
DHCP relay	No
DHCP server	No
DHCP client	Yes
Multicast	
IGMPv1 snooping	Yes
IGMPv2 snooping	Yes
Basic IGMPv3 snooping	Yes
Full IGMPv3 snooping	No
IGMP filtering	Yes
IGMPv1, v2, and v3	No
Network Management and Monitoring	
Port mirroring	Yes
Mirroring	Yes

Software Specifications

Model	RG-NBS3100-24GT4SFP
HTTP login	Yes
HTTPS login	Yes
RLOG	Yes
SON	Yes
Syslog	Yes
Client auto-discovery	Yes
PoE service failure	No
PoE power overload	No
SSH	No
Camera detection	Yes
Loop alarm	Yes
MAC address entries	Yes
IP address pool conflicts	Yes
Full ARP table	No
eWeb management	Yes
Ruijie Cloud management	Yes
Ruijie Reyee App management	Yes
SNMPv1, v2c, and v3	Yes
Reliability	
System dual backup	No
Enabling dual backup for the partition Uboot (based on a single flash memory)	No
Load balancing	No
ERPS	Yes

Software Specifications

Model	RG-NBS3100-24GT4SFP
Security	
Maximum number of ACEs	Number of ACEs in the inbound direction of an interface: 1200 Number of ACEs in the outbound direction of an interface: 0
Port isolation	Yes
Broadcast storm control	Yes
Multicast storm control	Yes
Unknown unicast storm control	Yes
DHCP snooping	Yes
Standard ACL	Yes
Extended MAC ACL	Yes
Extended IP ACL	Yes
IPv6 ACL	Yes
IP-MAC-port binding	Yes
ARP anti-spoofing	Yes
IP source guard	Yes
CPU Protection Policy	Yes
System Performance Capacity	
Recommended camera limit	200 W H265: 120 400 W H265: 60

Package Contents

Model	RG-NBS3100-24GT4SFP
Device	
Device	1
Accessories	
Rubber pad	4
Power cord retention clip	1
Screw	6 M4 x 8 mm cross recessed countersunk head screws
Grounding cable	1 x 1 m (3.28 ft.)
Power cord	1 x 1.5 m (4.92 ft.)
Rack-mount bracket	2
Manual	
User Manual	1
Warranty Card	1

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Redefine your easy network

Ruijie Networks Co., Ltd.

Official Website: https://Reyee.Ruijie.com