

# RG-NBS3100-24GT4SFP-P-V2

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



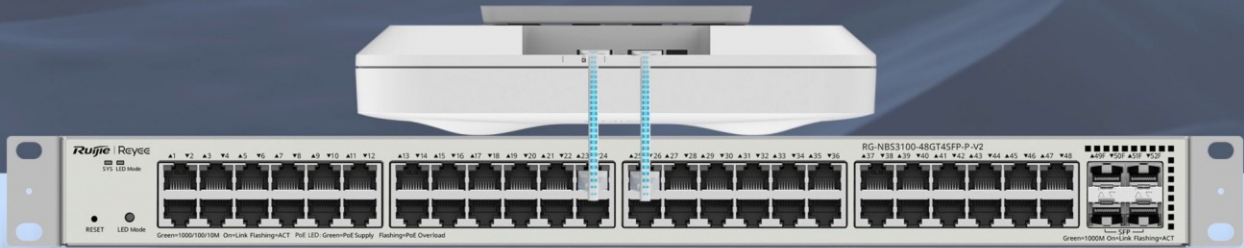
### Highlights

- 28-port gigabit Layer 2 managed 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

# Highlight Features

## Enterprise-Class Quality Ensures High Performance

Link Aggregation IGMP Snooping VLAN



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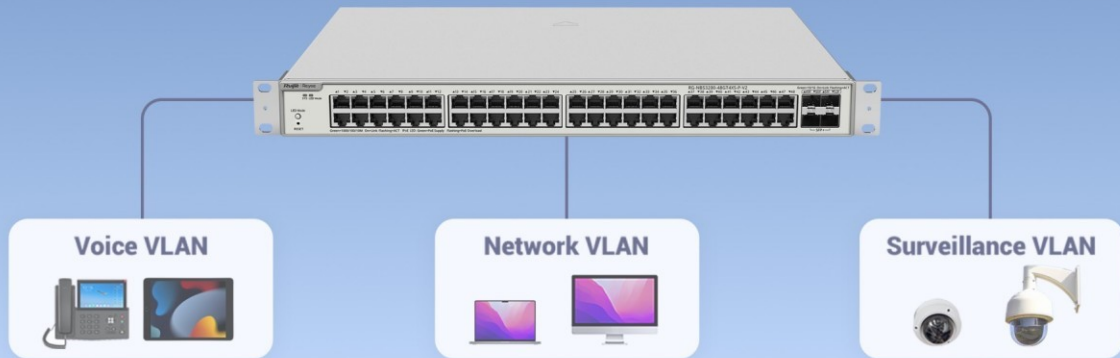
Link Aggregation IGMP Snooping VLAN



# Highlight Features

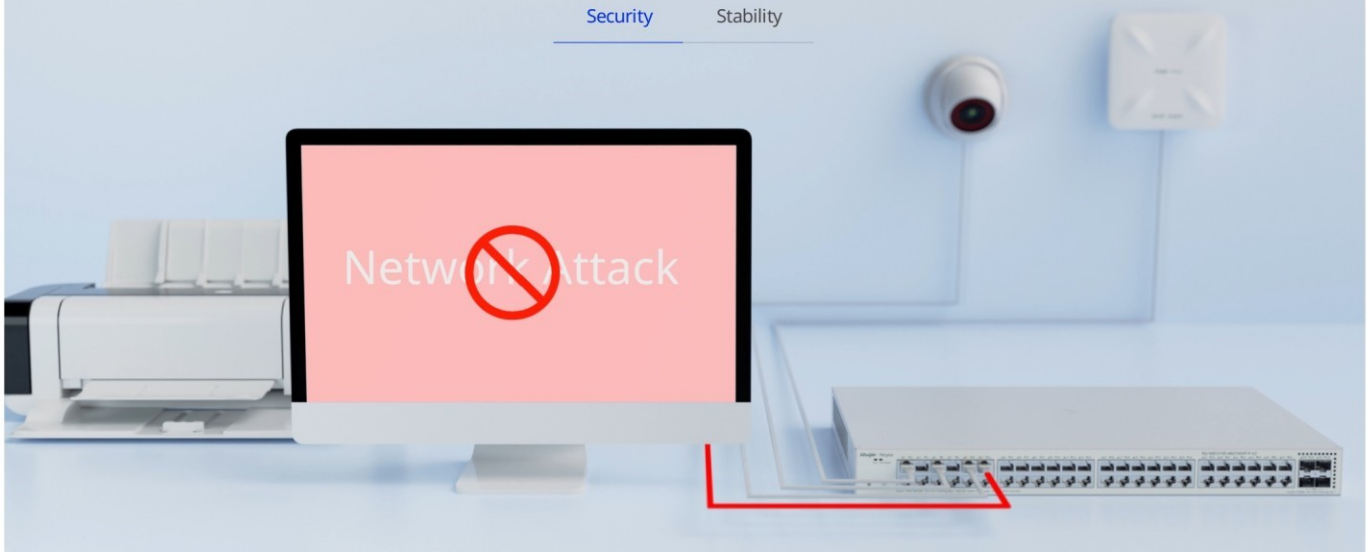
## Enterprise-Class Quality Ensures High Performance

Link Aggregation IGMP Snooping VLAN



## Multiple Security Policies Protect Your Network

Security Stability



# 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
- Monitor switch statistics at anytime, anywhere
- Configure VLANs on Ruijie Reyee App
- Simplify maintenance to reduce onsite time and costs



## Product Information

<b>Model</b>	<b>RG-NBS3100-24GT4SFP-P-V2</b>
<b>Product Category</b>	Layer 2

## Hardware Specifications

<b>Model</b>	<b>RG-NBS3100-24GT4SFP-P-V2</b>
<b>Product Information</b>	
<b>Warranty</b>	5 years
<b>Port Specifications</b>	
<b>Total number of RJ45 ports</b>	24
<b>Total number of optical ports</b>	4
<b>Number of 1GE combo ports</b>	No
<b>Number of 1GE SFP ports</b>	4
<b>Number of 10GE SFP+ ports</b>	No
<b>Number of 10/100BASE-T ports</b>	No
<b>Number of 10/100/1000BASE-T ports</b>	24
<b>Number of 10/100/1000/2500BASE-T ports</b>	No
<b>Number of 100/1000/2.5G/5G/10GBASE-T ports</b>	No
<b>Module slots</b>	No
<b>Reset button</b>	1
<b>DIP switch</b>	Moving the switch to the left (Mode 1): The port LED indicates the switch status. Moving the switch to the right (Mode 2): The port LED indicates the PoE status.
<b>Power Supply and Consumption</b>	
<b>PoE Out standard</b>	PoE/PoE+ (IEEE 802.3af/at)
<b>Number of PoE Out ports</b>	24

# Hardware Specifications

Model	RG-NBS3100-24GT4SFP-P-V2
Number of PoE/PoE+ Out ports	24
Number of PoE/PoE+/PoE++ Out ports	No
PoE budget	370 W
PoE power pins	1-2 (+), 3-6 (-)
Power input	220 V AC power supply: <ul style="list-style-type: none"><li>• Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz</li><li>• Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz</li><li>• Maximum input current: 6 A</li></ul>
Maximum power consumption	21 W (with no PoE load) 443 W (with full PoE load)
Power output	No
Power supply	Fixed power supply
<b>System Specifications</b>	
RAM	256 MB
Flash memory	16 MB
Forwarding rate	41.66 Mpps
Switching capacity	56 Gbps(bit/s)
<b>Dimensions and Weight</b>	
Casing	Metal
Product dimensions (W x D x H)	440 mm x 215 mm x 44 mm (17.32 in. x 8.46 in. x 1.73 in.)
Weight	3 kg (6.61 lbs) (without packaging materials)
Shipping weight	3.53 kg (7.78 lbs)
<b>Environment and Reliability</b>	
Hot swapping of fan modules	No
Fan	1 x fixed fan
Cooling	Air cooling, front-to-rear airflow + left-to-rear airflow

# Hardware Specifications

Model	RG-NBS3100-24GT4SFP-P-V2
Acoustic noise	25°C (77°F): 45 dB
Mounting options	Rack
Hot swapping of cables	Service ports support hot swapping of cables.
MTBF	400,000 hours
Operating temperature	0~50°C 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)
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
<b>Certification and Regulatory Compliance</b>	
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-P-V2
<b>Authentication</b>	
<b>RADIUS</b>	Yes
<b>802.1X authentication</b>	Yes
<b>Port-based 802.1X authentication</b>	Yes
<b>MAC address-based 802.1X authentication</b>	Yes
<b>Guest VLAN</b>	Yes
<b>Basic Configurations</b>	
<b>PoE watchdog</b>	Yes
<b>Online upgrade</b>	Yes
<b>Ethernet Switching</b>	
<b>Maximum number of VLANs</b>	4094
<b>Maximum number of MAC address entries</b>	8000
<b>Interface flow control</b>	Yes
<b>MAC address-based VLAN</b>	No
<b>IP subnet - based VLAN assignment</b>	No
<b>IEEE 802.1Q VLAN</b>	Yes
<b>Basic QinQ</b>	No
<b>VLAN configuration supported on LAN ports</b>	Yes
<b>Voice VLAN</b>	Yes
<b>STP (IEEE 802.1d)</b>	Yes
<b>RSTP (IEEE 802.1w)</b>	Yes
<b>MSTP (IEEE 802.1s)</b>	Yes
<b>LLDP</b>	Yes



## Software Specifications

Model	RG-NBS3100-24GT4SFP-P-V2
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
<b>Gateway Features</b>	
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
<b>Interface</b>	
Jumbo frame length (MTU)	9216 bytes (global configuration mode)
EEE	Yes
Cable test	Yes
<b>IP Routing</b>	
IPv4 static route	No
IPv6 static route	No
OSPFv2	No
OSPFv3	No

# Software Specifications

Model	RG-NBS3100-24GT4SFP-P-V2
<b>IP Service</b>	
Maximum number of ARP entries	1000
ARP	Yes
IPv4 ping	Yes
IPv4 traceroute	Yes
ICMPv6	Yes
IPv6 ping	Yes
IPv6 traceroute	Yes
DNS client	Yes
DNSv6 client	Yes
DHCP relay	No
DHCP server	No
DHCP client	Yes
<b>Multicast</b>	
IGMPv1 snooping	Yes
IGMPv2 snooping	Yes
Basic IGMPv3 snooping	Yes
Full IGMPv3 snooping	No
IGMP filtering	Yes
IGMPv1, v2, and v3	No
<b>Network Management and Monitoring</b>	
Fan speed adjustment	Automatic speed adjustment
Port mirroring	Yes
Mirroring	Yes

# Software Specifications

Model	RG-NBS3100-24GT4SFP-P-V2
HTTP login	Yes
HTTPS login	Yes
RLOG	Yes
SON	Yes
Syslog	Yes
Client auto-discovery	Yes
PoE service failure	Yes
PoE power overload	Yes
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
<b>Reliability</b>	
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-P-V2
<b>Security</b>	
<b>Maximum number of ACEs</b>	Number of ACEs in the inbound direction of an interface: 1200 Number of ACEs in the outbound direction of an interface: 0
<b>Port isolation</b>	Yes
<b>Broadcast storm control</b>	Yes
<b>Multicast storm control</b>	Yes
<b>Unknown unicast storm control</b>	Yes
<b>DHCP snooping</b>	Yes
<b>Standard ACL</b>	Yes
<b>Extended MAC ACL</b>	Yes
<b>Extended IP ACL</b>	Yes
<b>IPv6 ACL</b>	Yes
<b>IP-MAC-port binding</b>	Yes
<b>ARP anti-spoofing</b>	Yes
<b>IP source guard</b>	Yes
<b>CPU Protection Policy</b>	Yes
<b>System Performance Capacity</b>	
<b>Recommended camera limit</b>	200 W H265: 120 400 W H265: 60

## Package Contents

Model	RG-NBS3100-24GT4SFP-P-V2
<b>Device</b>	
Device	1
<b>Accessories</b>	
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
<b>Manual</b>	
User Manual	1
Warranty Card	1

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**Ruijie Networks Co., Ltd.**

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