

# 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

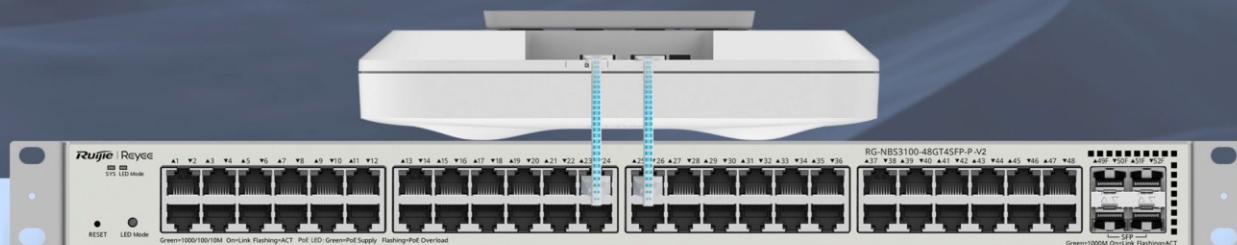
## / Highlight Features

### Enterprise-Class Quality Ensures High Performance

[Link Aggregation](#)

[IGMP Snooping](#)

[VLAN](#)



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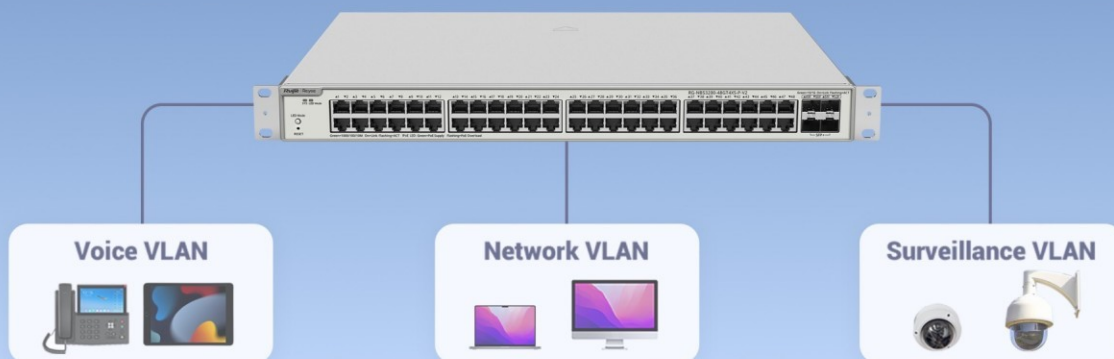
[VLAN](#)



## / Highlight Features

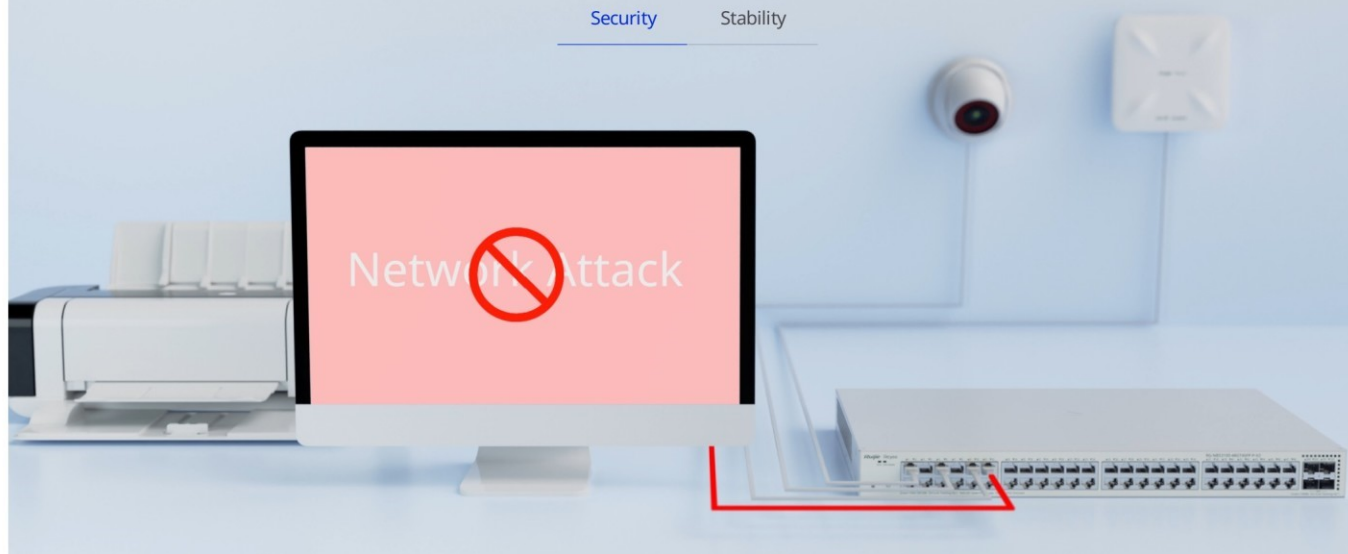
### Enterprise-Class Quality Ensures High Performance

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

|                  |                          |
|------------------|--------------------------|
| Model            | RG-NBS3100-24GT4SFP-P-V2 |
| Product Category | Layer 2                  |

## / Hardware Specifications

|                                            |                                                                                                                                                                      |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                                      | RG-NBS3100-24GT4SFP-P-V2                                                                                                                                             |
| 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                                 | Moving the switch to the left (Mode 1): The port LED indicates the switch status.<br>Moving the switch to the right (Mode 2): The port LED indicates the PoE status. |
| Power Supply and Consumption               |                                                                                                                                                                      |
| PoE Out standard                           | PoE/PoE+ (IEEE 802.3af/at)                                                                                                                                           |
| Number of PoE Out ports                    | 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)<br>443 W (with full PoE load)                                                                                                                                                                                  |
| 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 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)                                                                                                                                                                                                                     |
| Environment and Reliability        |                                                                                                                                                                                                                                        |
| 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.)<br>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<br>Air discharge: 8 kV                                                                                                     |
| Surge protection                        | Service port: ±6 kV for common mode<br>Power connector: ±6 kV for both common mode and differential mode                                           |
| Certification and Regulatory Compliance |                                                                                                                                                    |
| EMC                                     | EN 55032<br>EN 61000-3-2<br>EN 61000-3-3<br>EN 55035<br>EN 300 386                                                                                 |
| Safety compliance                       | IEC 62368-1                                                                                                                                        |
| Certification                           | CE, FCC                                                                                                                                            |

## Software Specifications

| Model                                     | RG-NBS3100-24GT4SFP-P-V2 |
|-------------------------------------------|--------------------------|
| 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                              | Yes                      |
| 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-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                                    |
| 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-P-V2   |
|-----------------------------------|----------------------------|
| 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 |                            |
| Fan speed adjustment              | Automatic speed adjustment |
| Port mirroring                    | Yes                        |

## Software Specifications

| Model                                                                         | RG-NBS3100-24GT4SFP-P-V2 |
|-------------------------------------------------------------------------------|--------------------------|
| Mirroring                                                                     | Yes                      |
| 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                      |
| Reliability                                                                   |                          |
| System dual backup                                                            | No                       |
| Enabling dual backup for the partition Uboot (based on a single flash memory) | No                       |
| Load balancing                                                                | No                       |

## Software Specifications

| Model                         | RG-NBS3100-24GT4SFP-P-V2                                                                                                     |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| ERPS                          | Yes                                                                                                                          |
| Security                      |                                                                                                                              |
| Maximum number of ACEs        | Number of ACEs in the inbound direction of an interface: 1200<br>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<br>400 W H265: 60                                                                                            |

## Package Contents

| Model                     | RG-NBS3100-24GT4SFP-P-V2                           |
|---------------------------|----------------------------------------------------|
| 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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Visitez notre site web



[sales-ci@hafs-networks.com](mailto:sales-ci@hafs-networks.com)

Envoyez-nous un e-mail



(+225) 07 69 32 13 55

Contact commercial 1



(+225) 07 59 05 85 82

Contact commercial 2

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