

# RG-NBS31/32 Series Cloud Managed Switches

DATASHEET

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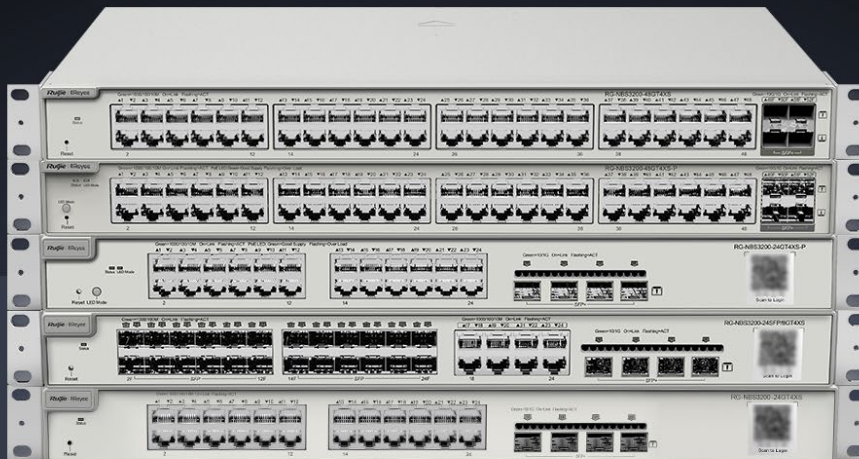


## Highlights

- Enterprise-class Quality Ensures High Performance
- Multiple Security Policies Protect Your Network
- Lifetime management on Ruijie Cloud at anytime anywhere

## Highlight Features

### RG-NBS3000 Series Layer 2 Switch



PoE Budget  
370W



Max. 30W  
on Each Port



Surge Protection  
6KV

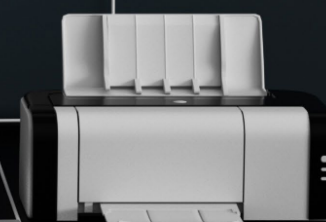


5 Years  
Warranty

### Abundant PoE Application Scenarios

Performance

Features



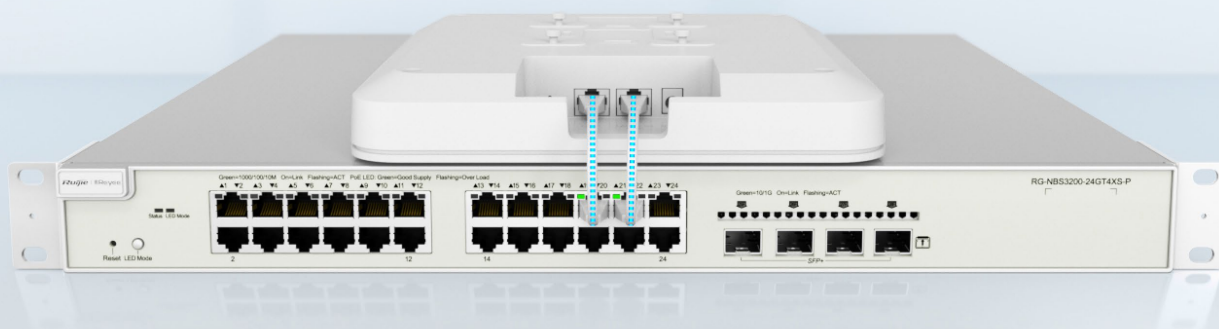
## Highlight Features

### Enterprise-class Quality Ensures High Performance

[Link Aggregation](#)

[IGMP Snooping](#)

[VLAN](#)



### Enterprise-class Quality Ensures High Performance

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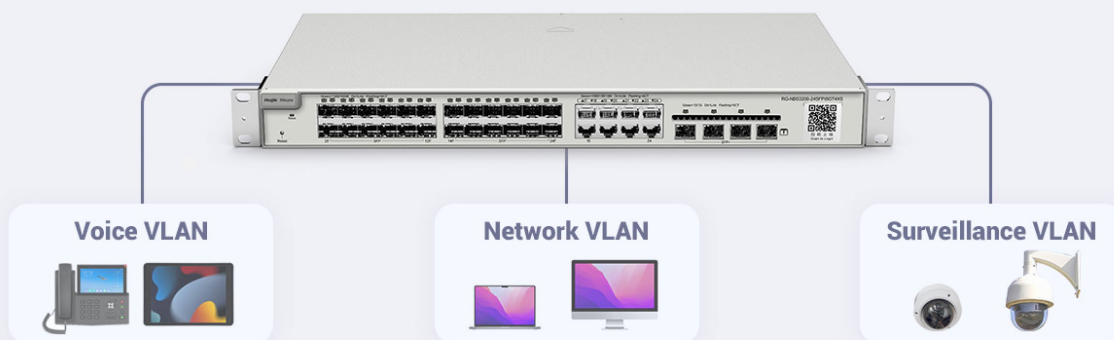
## Highlight Features

### Enterprise-class Quality Ensures High Performance

Link Aggregation

IGMP Snooping

VLAN



### Multiple Security Policies Protect Your Network

Security

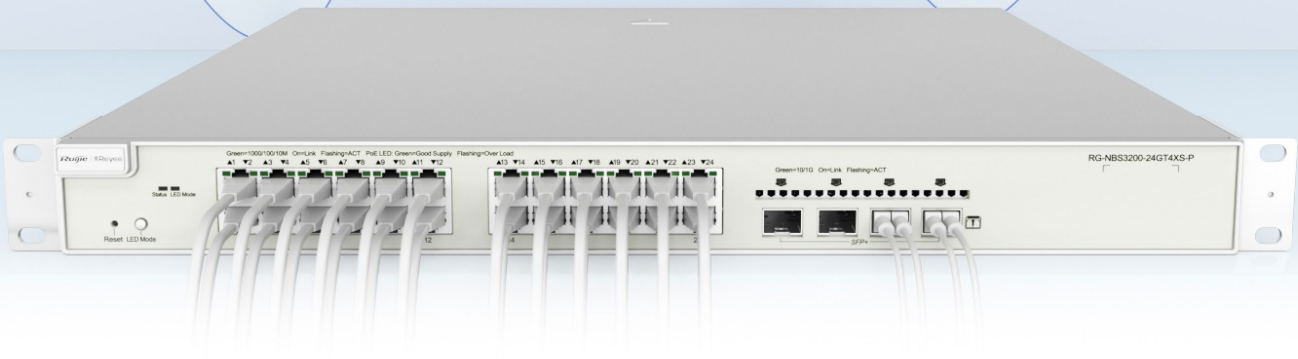
Stability



## Highlight Features

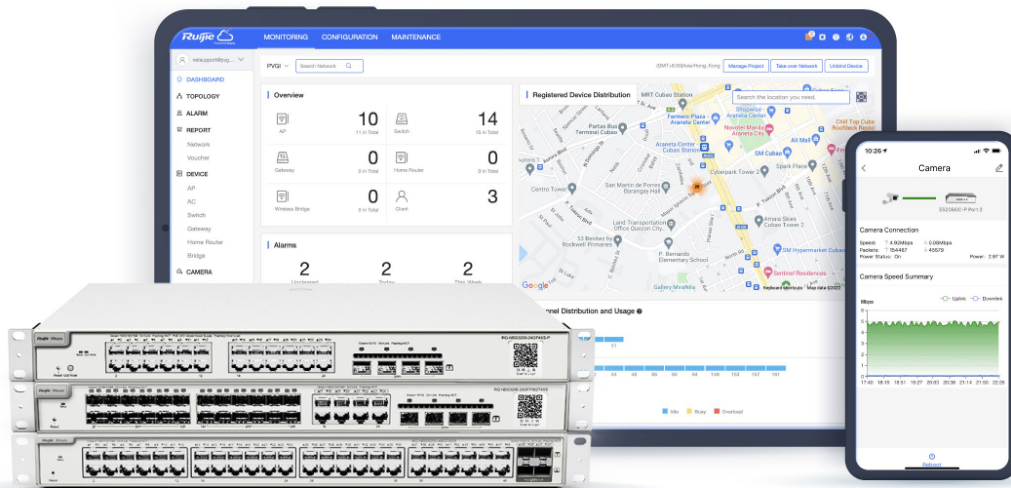
### Multiple Security Policies Protect Your Network

Security Stability



### Cloud, Make Your Business Easy

- SON, zero touch provisioning to Cloud
- Monitor switch statistics at anytime anywhere
- Configure VLANs on Ruijie Cloud APP
- Easy maintenance, save onsite time and cost



# Specifications

| Specifications          |                                       | RG-NBS3100-8GT2SFP                               | RG-NBS3100-24GT4SFP-V2                           | RG-NBS3100-8GT2SFP-P-V2                          | RG-NBS3100-24GT4SFP-P-V2                         | RG-NBS3100-48GT4SFP-P                        |
|-------------------------|---------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------|
| Hardware Specifications |                                       |                                                  |                                                  |                                                  |                                                  |                                              |
| Port                    | Total Number of RJ45 Ports            | 8                                                | 24                                               | 8                                                | 24                                               | 48                                           |
|                         | Total Number of Optical Ports         | 2                                                | 4                                                | 2                                                | 4                                                | 4                                            |
|                         | Number of 1GE SFP ports               | 2                                                | 4                                                | 2                                                | 4                                                | 4                                            |
|                         | Number of 1GE RJ45 ports              | 8                                                | 24                                               | 8                                                | 24                                               | 48                                           |
| POE                     | Number of PoE/PoE+ out ports          | N/A                                              | N/A                                              | 8                                                | 24                                               | 48                                           |
|                         | PoE budget                            | N/A                                              | N/A                                              | 125W                                             | 370W                                             | 370W                                         |
|                         | PoE power pins                        | N/A                                              | N/A                                              | 1/2(+),3/6(-)                                    | 1/2(+),3/6(-)                                    | 1 2+ 3 6-                                    |
| System Specifications   | CPU                                   | MAC chip with a built-in single-core CPU, 500MHz | MAC chip with a built-in single-core CPU, 500MHz | MAC chip with a built-in single-core CPU, 500MHz | MAC chip with a built-in single-core CPU, 500MHz | MAC chip with a built-in dual-core CPU, 1GHz |
|                         | RAM                                   | 256MB                                            | 512MB                                            | 512MB                                            | 512MB                                            | 512MB                                        |
|                         | Flash memory                          | 16MB                                             | 16MB                                             | 16MB                                             | 16MB                                             | 256MB                                        |
|                         | Recommended camera limit              | 200W H265:80<br>400W H265:40                     | 200W H265:120<br>400W H265:60                    | 200W H265:80<br>400W H265:40                     | 200W H265:120<br>400W H265:60                    | 200W H265:200<br>400W H265:100               |
|                         | Forwarding rate                       | 15Mpps                                           | 42Mpps                                           | 15Mpps                                           | 78Mpps                                           | 78Mpps                                       |
|                         | Switching capacity                    | 20Gbps                                           | 56Gbps                                           | 20Gbps                                           | 56Gbps                                           | 104Gbps                                      |
|                         | Maximum number of VLANs               | 4094                                             | 4094                                             | 4094                                             | 4094                                             | 4094                                         |
|                         | Maximum number of MAC address entries | 8000                                             | 8000                                             | 8000                                             | 8000                                             | 16000                                        |

| Specifications |                               | RG-NBS3100-8GT2SFP                                                                                                                                                                                          | RG-NBS3100-24GT4SFP-V2                                                                                           | RG-NBS3100-8GT2SFP-P-V2                                                                                        | RG-NBS3100-24GT4SFP-P-V2                                                                                       | RG-NBS3100-48GT4SFP-P                                                                           |
|----------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|                | Maximum number of ARP entries | 1000                                                                                                                                                                                                        | 1000                                                                                                             | 1000                                                                                                           | 1000                                                                                                           | 1000                                                                                            |
|                | Maximum number of ACEs        | In-1200<br>Out-0                                                                                                                                                                                            | In-1200<br>Out-0                                                                                                 | In-1200<br>Out-0                                                                                               | In-1200<br>Out-0                                                                                               | In-1900<br>Out-0                                                                                |
| Power          | Power input                   | Power adapter input:<br>Rated voltage range: 100-240V~<br>Maximum voltage range: 90-264V~<br>Frequency: 50/60Hz<br>Rated current: 1A<br>Power adapter output:<br>Rated voltage: 12V DC<br>Rated current: 1A | Rated voltage range: 100-240VAC<br>Maximum voltage range: 90-264VAC<br>Frequency: 50/60Hz<br>Rated current: 0.6A | Rated voltage range: 100-240V~<br>Maximum voltage range: 90-264V~<br>Frequency: 50/60Hz<br>Rated current: 2.5A | Rated voltage range: 100-240VAC<br>Maximum voltage range: 90-264VAC<br>Frequency: 50/60Hz<br>Rated current: 6A | Maximum voltage range: 90-264V~<br>Frequency: 50/60Hz<br>Rated current: 7A                      |
|                | Maximum power consumption     | ≤8W                                                                                                                                                                                                         | ≤21W                                                                                                             | No PoE load: ≤11W; Full PoE load: ≤145W                                                                        | No PoE load: ≤21W; Full PoE load: ≤443W                                                                        | No PoE load: 61.57W;<br>Full PoE load: 447.69W                                                  |
|                | Power output                  | 12V/1A,12W                                                                                                                                                                                                  | Vout=12V(2.2A),P=25W                                                                                             | Vout=54.5V(2.75A),P=150W                                                                                       | Vout=54V(7.6A),P=409W                                                                                          | 90-264VAC,54.5V/8.26A,P=450W                                                                    |
|                | Input power supply            | Power adapter                                                                                                                                                                                               | Single fixed power supply                                                                                        | Single fixed power supply                                                                                      | Single fixed power supply                                                                                      | Single fixed power supply                                                                       |
| FAN            | Fan                           | Fanless                                                                                                                                                                                                     | Fanless                                                                                                          | Fanless                                                                                                        | 1                                                                                                              | 2                                                                                               |
|                | Fan speed adjustment          | N/A                                                                                                                                                                                                         | N/A                                                                                                              | N/A                                                                                                            | Hardware-based adjustment                                                                                      | Hardware-based adjustment                                                                       |
|                | Heat dissipation              | 27.36<br>BTU/hr(220V/50Hz)                                                                                                                                                                                  | 71.82<br>BTU/hr(220V/50Hz)                                                                                       | No PoE load: ≤37.62<br>BTU/hr(220V/50Hz);<br>Full PoE load: ≤495.9<br>BTU/hr(220V/50Hz)                        | No PoE load: ≤71.82<br>BTU/hr(220V/50Hz);<br>Full PoE load: ≤1,515.06<br>BTU/hr(220V/50Hz)                     | No PoE load: ≤210.5694<br>BTU/hr(220V/50Hz);<br>Full PoE load: ≤1,531.0998<br>BTU/hr(220V/50Hz) |

| Specifications                   |                        | RG-NBS3100-8GT2SFP               | RG-NBS3100-24GT4SFP-V2           | RG-NBS3100-8GT2SFP-P-V2          | RG-NBS3100-24GT4SFP-P-V2               | RG-NBS3100-48GT4SFP-P                  |
|----------------------------------|------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------------|----------------------------------------|
|                                  | Acoustic noise         | Fanless                          | Fanless                          | Fanless                          | <45dB (when the device works normally) | <50dB (when the device works normally) |
| Button                           | Reset button           | Yes                              | Yes                              | Yes                              | Yes                                    | Yes                                    |
|                                  | DIP switch             | N/A                              | N/A                              | LED MODE                         | LED MODE                               | LED MODE                               |
| EMC                              | EMC                    | EN 55032:2015+AC:2016            | EN 55032:2015+AC:2016            | EN 55032:2015+AC:2016            | EN 55032:2015+AC:2016                  | EN 55032:2015+AC:2016                  |
|                                  |                        | EN 61000-3-2:2014                | EN 61000-3-2:2014                | EN 61000-3-2:2014                | EN 61000-3-2:2014                      | EN 61000-3-2:2014                      |
|                                  |                        | EN 61000-3-3:2013                | EN 61000-3-3:2013                | EN 61000-3-3:2013                | EN 61000-3-3:2013                      | EN 61000-3-3:2013                      |
|                                  |                        | EN 55035:2017                    | EN 55035:2017                    | EN 55035:2017                    | EN 55035:2017                          | EN 55035:2017                          |
|                                  |                        | ETSI EN 300 386 V2.1.1 (2016-07) | ETSI EN 300 386 V2.1.1 (2016-07) | ETSI EN 300 386 V2.1.1 (2016-07) | ETSI EN 300 386 V2.1.1 (2016-07)       | ETSI EN 300 386 V2.1.1 (2016-07)       |
|                                  |                        |                                  |                                  |                                  |                                        |                                        |
| Safety Compliance                | Safety compliance      | IEC 62368-1                      | IEC 62368-1                      | IEC 62368-1                      | IEC 62368-1                            | IEC 62368-1                            |
| Certification                    | CE, FCC                | CE;FCC                           | CE;FCC                           | CE;FCC                           | CE;FCC                                 | CE;FCC                                 |
| Mounting                         | Mounting               | Rack installation                | Rack installation                | Rack installation                | Rack installation                      | Rack installation                      |
| Casing                           | Casing                 | Metal                            | Metal                            | Metal                            | Metal                                  | Metal                                  |
| Cable Hot-Swappable              | Hot swapping of cables | Supported by all ports           | Supported by all ports           | Supported by all ports           | Supported by all ports                 | Supported by all ports                 |
| Mean Time Between Failure (MTBF) | MTBF                   | 400000H                          | 400000H                          | 400000H                          | 400000H                                | 400000H                                |
| Warranty                         | Warranty Card          | 5                                | 5                                | 5                                | 5                                      | 5                                      |
| EEE                              | EEE                    | Yes                              | Yes                              | Yes                              | Yes                                    | Yes                                    |
| Environment and Reliability      | Operating temperature  | 0 to 50°C                        | 0~50°C                           | 0~50°C                           | 0~50°C                                 | 0 to 50°C                              |
|                                  | Storage temperature    | -40 to 70°C                      | -40~70°C                         | -40 to 70°C                      | -40~70°C                               | -40 to 70°C                            |
|                                  | Operating humidity     | 10% to 90% RH(non-condensing)    | 10% to 90% RH(non-condensing)    | 10% to 90% RH(non-condensing)    | 10% to 90% RH(non-condensing)          | 10% to 90% RH(non-condensing)          |
|                                  | Storage humidity       | 5% to 95% RH(non-condensing)     | 5% to 95% RH(non-condensing)     | 5% to 95% RH(non-condensing)     | 5% to 95% RH(non-condensing)           | 5% to 95% RH(non-condensing)           |

| Specifications   |                          | RG-NBS3100-8GT2SFP                           | RG-NBS3100-24GT4SFP-V2                       | RG-NBS3100-8GT2SFP-P-V2                      | RG-NBS3100-24GT4SFP-P-V2                     | RG-NBS3100-48GT4SFP-P                        |
|------------------|--------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|
|                  | Operating altitude       | -500~5000M                                   | -500~5000M                                   | -500~5000M                                   | -500~5000M                                   | -500~5000M                                   |
|                  | ESD protection           | Air Discharge: 8kV<br>Contact Discharge: 6kV | Air Discharge: 8kV<br>Contact Discharge: 6kV | Air Discharge: 8kV<br>Contact Discharge: 6kV | Air Discharge: 8kV<br>Contact Discharge: 6kV | Air Discharge: 8kV<br>Contact Discharge: 6kV |
|                  | Surge protection         | Common Mode 6kV                              | Common Mode 6kV                              | Common Mode 6kV                              | Common Mode 6kV                              | Common Mode 6kV                              |
|                  | Surge protection         | Common Mode 4kV<br>Differential mode 2kV     | Common Mode 6kV<br>Differential mode 6kV     | Common Mode 6kV<br>Differential mode 6kV     | Common Mode 6kV<br>Differential mode 6kV     | Common Mode 6kV<br>Differential mode 6kV     |
| Package Contents | Dimensions (W x D x H)   | 260mm x 120mm x 43.6mm                       | 440mm x 165mm x 44mm                         | 300mm x 205mm x 44mm                         | 440mm x 215mm x 44mm                         | 440mm x 357.6mm x 43.6mm                     |
|                  | Weight                   | 1.2kg                                        | 2.4 kg                                       | 1.80kg                                       | 3kg                                          | 5.4 kg                                       |
|                  | Shipping weight          | 1.6kg                                        | 2.52kg                                       | 2.50kg                                       | 3.53kg                                       | 7.13kg                                       |
|                  | Rack-mount bracket       | 2                                            | 2                                            | 2                                            | 2                                            | 2                                            |
|                  | Screw                    | M3 Screw*6                                   | M4 Screw*6                                   | M3 Screw*6                                   | M4 Screw*6                                   | M4 Screw*8                                   |
|                  | User Manual              | 1                                            | 1                                            | 1                                            | 1                                            | 1                                            |
|                  | Rubber pad               | 4                                            | 4                                            | 4                                            | 4                                            | 4                                            |
|                  | Input power supply       | Power adapter                                | Single fixed power supply                    | Single fixed power supply                    | Single fixed power supply                    | Single fixed power supply                    |
|                  | Warranty Card            | 1                                            | 1                                            | 1                                            | 1                                            | 1                                            |
| L2               |                          |                                              |                                              |                                              |                                              |                                              |
| Jumbo Frame      | Jumbo frame length (MTU) | 9216 Bytes(Global MTU)                       | 9216 Bytes(Global MTU)                       | 9216 Bytes(Global MTU)                       | 9216 Bytes(Global MTU)                       | 9216 Bytes(Per-port MTU)                     |
| port             | Port flow control        | Yes                                          | Yes                                          | Yes                                          | Yes                                          | Yes                                          |
|                  | PoE watchdog             | N/A                                          | N/A                                          | Yes                                          | Yes                                          | Yes                                          |
|                  | Port isolation           | Yes                                          | Yes                                          | Yes                                          | Yes                                          | Yes                                          |
|                  | EEE                      | Yes                                          | Yes                                          | Yes                                          | Yes                                          | Yes                                          |
|                  | Cable Test               | Yes                                          | Yes                                          | Yes                                          | Yes                                          | Yes                                          |

| Specifications    |                         | RG-NBS3100-8GT2SFP | RG-NBS3100-24GT4SFP-V2 | RG-NBS3100-8GT2SFP-P-V2 | RG-NBS3100-24GT4SFP-P-V2 | RG-NBS3100-48GT4SFP-P |
|-------------------|-------------------------|--------------------|------------------------|-------------------------|--------------------------|-----------------------|
| VLAN              | IEEE802.1Q VLAN         | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                   | Port-based VLAN         | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                   | Voice VLAN              | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| STP               | STP (IEEE 802.1d)       | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                   | RSTP (IEEE 802.1w)      | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                   | MSTP (IEEE 802.1s)      | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| G.8032 (ERPS)     | ERPS                    | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| LLDP              | LLDP                    | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                   | LLDP-MED                | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| SPAN              | Port mirroring          | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                   | Mirroring               | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| IGMP              | IGMPv1 snooping         | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                   | IGMPv2 snooping         | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                   | Basic IGMPv3 snooping   | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                   | IGMP filtering          | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| Mac Address       | Static MAC address      | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                   | MAC address filtering   | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| Link Aggregation  | Static aggregation      | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                   | Load balancing          | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                   | LACP                    | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| Storm Suppression | Broadcast storm control | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                   | Multicast storm control | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |

| Specifications     |                                        | RG-NBS3100-8GT2SFP | RG-NBS3100-24GT4SFP-V2 | RG-NBS3100-8GT2SFP-P-V2 | RG-NBS3100-24GT4SFP-P-V2 | RG-NBS3100-48GT4SFP-P |
|--------------------|----------------------------------------|--------------------|------------------------|-------------------------|--------------------------|-----------------------|
|                    | Unknown unicast storm control          | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| L3                 |                                        |                    |                        |                         |                          |                       |
| IPv4               | IPv4 ping                              | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                    | IPv4 traceroute                        | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| IPv6 Configuration | ICMPv6                                 | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                    | IPv6 ping                              | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                    | IPv6 traceroute                        | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| DNS                | DNS client                             | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                    | DNSv6 client                           | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| DHCP               | DHCP snooping                          | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                    | DHCP client                            | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| HTTP v6            | HTTP Access by IPv6                    | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| High Features      |                                        |                    |                        |                         |                          |                       |
| ACL                | Standard ACL                           | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| ACL                | Extended MAC ACL                       | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| ACL                | Extended IP ACL                        | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| ACL                | IPv6 ACL                               | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| QoS                | 802.1p traffic classification          | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                    | DSCP-based traffic classification      | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                    | Egress queues based on 802.1p and DSCP | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                    | SP                                     | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                    | WRR                                    | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |

| Specifications          |                                                | RG-NBS3100-8GT2SFP | RG-NBS3100-24GT4SFP-V2 | RG-NBS3100-8GT2SFP-P-V2 | RG-NBS3100-24GT4SFP-P-V2 | RG-NBS3100-48GT4SFP-P |
|-------------------------|------------------------------------------------|--------------------|------------------------|-------------------------|--------------------------|-----------------------|
|                         | SP+WRR                                         | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                         | Global QoS                                     | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                         | Interface-based rate limiting (ingress/egress) | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| Online Upgrade          | Online Upgrade                                 | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| RLOG                    | RLOG                                           | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| Self-Organizing Network | SON                                            | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| syslog                  | System log                                     | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| Client Identification   | Client discovery                               | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| ALARM                   | Camera detection                               | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                         | Loop alarm                                     | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                         | MAC address entries                            | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                         | IP address pool conflicts                      | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                         | PoE service failure                            | NO                 | NO                     | Yes                     | Yes                      | Yes                   |
|                         | PoE power overload                             | NO                 | NO                     | Yes                     | Yes                      | Yes                   |
| Radius                  | RADIUS                                         | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| 802.1X                  | 802.1X authentication                          | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                         | Port-based 802.1X authentication               | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
|                         | MAC-based 802.1X                               | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |

| Specifications              |                       | RG-NBS3100-8GT2SFP | RG-NBS3100-24GT4SFP-V2 | RG-NBS3100-8GT2SFP-P-V2 | RG-NBS3100-24GT4SFP-P-V2 | RG-NBS3100-48GT4SFP-P |
|-----------------------------|-----------------------|--------------------|------------------------|-------------------------|--------------------------|-----------------------|
|                             | authentication        |                    |                        |                         |                          |                       |
|                             | Guest VLAN            | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| IP+MAC Port Binding         | IP-MAC-port binding   | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| Anti-ARP Spoofing           | ARP anti-spoofing     | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| IP Source Guard             | IP source guard       | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| CPU Protection Policy (CPP) | CPU Protection Policy | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| Management Features         |                       |                    |                        |                         |                          |                       |
| Web Management              | eWeb                  | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| MACC                        | Ruijie Cloud          | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| APP                         | Ruijie Reyee App      | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |
| SNMP                        | SNMPv1, v2c, and v3   | Yes                | Yes                    | Yes                     | Yes                      | Yes                   |

# Specifications

| Specifications          |                               | RG-NBS3200-24GT4XS | RG-NBS3200-48GT4XS | RG-NBS3200-24SFP/8GT4XS | RG-NBS3200-24GT4XS-P | RG-NBS3200-48GT4XS-P |
|-------------------------|-------------------------------|--------------------|--------------------|-------------------------|----------------------|----------------------|
| Hardware Specifications |                               |                    |                    |                         |                      |                      |
| Port                    | Total Number of RJ45 Ports    | 24                 | 48                 | 8                       | 24                   | 48                   |
|                         | Total Number of Optical Ports | 4                  | 4                  | 28                      | 4                    | 4                    |
|                         | Number of Combo Ports         | N/A                | N/A                | 8                       | N/A                  | N/A                  |
|                         | Number of 1GE SFP ports       | N/A                | N/A                | 24                      | N/A                  | N/A                  |

| Specifications        |                                            | RG-NBS3200-24GT4XS                               | RG-NBS3200-48GT4XS                           | RG-NBS3200-24SFP/8GT4XS                          | RG-NBS3200-24GT4XS-P                             | RG-NBS3200-48GT4XS-P                         |
|-----------------------|--------------------------------------------|--------------------------------------------------|----------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------------|
|                       | Number of 10GE SFP+ ports                  | 4                                                | 4                                            | 4                                                | 4                                                | 4                                            |
|                       | Number of 1GE RJ45 ports                   | 24                                               | 48                                           | 8                                                | 24                                               | 48                                           |
| POE                   | Number of PoE/PoE+ out ports               | N/A                                              | N/A                                          | N/A                                              | 24                                               | 48                                           |
|                       | PoE budget                                 | N/A                                              | N/A                                          | N/A                                              | 370W                                             | 370W                                         |
|                       | PoE power pins                             | N/A                                              | N/A                                          | N/A                                              | 1 2+ 3 6-                                        | 1 2+ 3 6-                                    |
| System Specifications | CPU                                        | MAC chip with a built-in single-core CPU, 800MHz | MAC chip with a built-in dual-core CPU, 1GHz | MAC chip with a built-in single-core CPU, 800MHz | MAC chip with a built-in single-core CPU, 800MHz | MAC chip with a built-in dual-core CPU, 1GHz |
|                       | RAM                                        | 512MB                                            | 1GB                                          | 512MB                                            | 512MB                                            | 512MB                                        |
|                       | Flash memory                               | 256MB                                            | 256MB                                        | 256MB                                            | 256MB                                            | 256MB                                        |
|                       | Recommended camera limit                   | 200W H265:280<br>400W H265:140                   | 200W H265:300<br>400W H265:150               | 200W H265:280<br>400W H265:140                   | 200W H265:280<br>400W H265:140                   | 200W H265:300<br>400W H265:150               |
|                       | Forwarding rate                            | 96Mpps                                           | 132Mpps                                      | 96Mpps                                           | 96Mpps                                           | 132Mpps                                      |
|                       | Switching capacity                         | 128Gbps                                          | 216Gbps                                      | 128Gbps                                          | 128Gbps                                          | 216Gbps                                      |
|                       | Maximum number of VLANs                    | 4094                                             | 4094                                         | 4094                                             | 4094                                             | 4094                                         |
|                       | Maximum number of MAC address entries      | 16000                                            | 16000                                        | 16000                                            | 16000                                            | 16000                                        |
|                       | Maximum number of ARP entries              | 1000                                             | 1000                                         | 1000                                             | 1000                                             | 1000                                         |
|                       | Routing table capacity (main unit routing) | 6000                                             | 12000                                        | 6000                                             | 6000                                             | 12000                                        |

| Specifications |                                          | RG-NBS3200-24GT4XS                                                                                               | RG-NBS3200-48GT4XS                                                                                             | RG-NBS3200-24SFP/8GT4XS                                                                                        | RG-NBS3200-24GT4XS-P                                                                                         | RG-NBS3200-48GT4XS-P                                                       |
|----------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
|                | Maximum number of IPv4 static routes     | 64                                                                                                               | 64                                                                                                             | 64                                                                                                             | 64                                                                                                           | 64                                                                         |
|                | Routing table capacity (network routing) | 128                                                                                                              | 500                                                                                                            | 128                                                                                                            | 128                                                                                                          | 500                                                                        |
|                | Maximum number of IPv6 static routes     | 64                                                                                                               | 64                                                                                                             | 64                                                                                                             | 64                                                                                                           | 64                                                                         |
|                | Maximum number of ACEs                   | In-1900<br>Out-0                                                                                                 | In-1900<br>Out-0                                                                                               | In-1900<br>Out-0                                                                                               | In-1900<br>Out-0                                                                                             | In-1900<br>Out-0                                                           |
| Power          | Power input                              | Rated voltage range: 100-240VAC<br>Maximum voltage range: 90-264VAC<br>Frequency: 50/60Hz<br>Rated current: 1.5A | Rated voltage range: 100-240VAC<br>Maximum voltage range: 90-264VAC<br>Frequency: 50/60Hz<br>Rated current: 2A | Rated voltage range: 100-240VAC<br>Maximum voltage range: 90-264VAC<br>Frequency: 50/60Hz<br>Rated current: 2A | Rated voltage range: 100-240V~<br>Maximum voltage range: 90-264V~<br>Frequency: 50/60Hz<br>Rated current: 6A | Maximum voltage range: 90-264V~<br>Frequency: 50/60Hz<br>Rated current: 7A |
|                | Maximum power consumption                | 28.028W                                                                                                          | 46.4W                                                                                                          | 41.8W                                                                                                          | No PoE load: 42.48W;<br>Full PoE load: 431.86W                                                               | No PoE load: 61.57W;<br>Full PoE load: 447.69W                             |
|                | Power output                             | 12V/3.33A,P=40W                                                                                                  | 12V(5.84A),P=70W                                                                                               | 12V(5.84A),P=70W                                                                                               | 54V/6.9A,12V/3A, P=409W                                                                                      | 54.5/8.26A,P=450W                                                          |
|                | Input power supply                       | Single fixed power supply                                                                                        | Single fixed power supply                                                                                      | Single fixed power supply                                                                                      | Single fixed power supply                                                                                    | Single fixed power supply                                                  |
| FAN            | Fan                                      | 1                                                                                                                | 2                                                                                                              | 2                                                                                                              | 2                                                                                                            | 2                                                                          |
|                | Fan speed adjustment                     | Hardware-based adjustment                                                                                        | Hardware-based adjustment                                                                                      | Hardware-based adjustment                                                                                      | Hardware-based adjustment                                                                                    | Hardware-based adjustment                                                  |
|                | Heat dissipation                         | 95.85576 BTU/hr(220V/50Hz )                                                                                      | 158.688 BTU/hr(220V/50Hz)                                                                                      | 142.956 BTU/hr(220V/50Hz)                                                                                      | No PoE load: ≤ 145.2816 BTU/hr(220V/50Hz);<br>Full PoE load: ≤ 1,476.9612                                    | No PoE load: ≤ 210.5694 BTU/hr(220V/50Hz);<br>Full PoE load: ≤ 1,531.0998  |

| Specifications                   |                        | RG-NBS3200-24GT4XS                                                                                                   | RG-NBS3200-48GT4XS                                                                                                   | RG-NBS3200-24SFP/8GT4XS                                                                                              | RG-NBS3200-24GT4XS-P                                                                                                 | RG-NBS3200-48GT4XS-P                                                                                                 |
|----------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
|                                  |                        |                                                                                                                      |                                                                                                                      |                                                                                                                      | BTU/hr(220V/50Hz)                                                                                                    | BTU/hr(220V/50Hz)                                                                                                    |
|                                  | Acoustic noise         | <45dB (when the device works normally)                                                                               | <45dB (when the device works normally)                                                                               | <45dB (when the device works normally)                                                                               | <45dB (when the device works normally)                                                                               | <45dB (when the device works normally)                                                                               |
| Button                           | Reset button           | Yes                                                                                                                  | Yes                                                                                                                  | Yes                                                                                                                  | Yes                                                                                                                  | Yes                                                                                                                  |
|                                  | DIP switch             | N/A                                                                                                                  | N/A                                                                                                                  | N/A                                                                                                                  | LED MODE                                                                                                             | LED MODE                                                                                                             |
| EMC                              | EMC                    | EN 55032:2015+AC:2016<br>EN 61000-3-2:2014<br>EN 61000-3-3:2013<br>EN 55035:2017<br>ETSI EN 300 386 V2.1.1 (2016-07) | EN 55032:2015+AC:2016<br>EN 61000-3-2:2014<br>EN 61000-3-3:2013<br>EN 55035:2017<br>ETSI EN 300 386 V2.1.1 (2016-07) | EN 55032:2015+AC:2016<br>EN 61000-3-2:2014<br>EN 61000-3-3:2013<br>EN 55035:2017<br>ETSI EN 300 386 V2.1.1 (2016-07) | EN 55032:2015+AC:2016<br>EN 61000-3-2:2014<br>EN 61000-3-3:2013<br>EN 55035:2017<br>ETSI EN 300 386 V2.1.1 (2016-07) | EN 55032:2015+AC:2016<br>EN 61000-3-2:2014<br>EN 61000-3-3:2013<br>EN 55035:2017<br>ETSI EN 300 386 V2.1.1 (2016-07) |
| Safety Compliance                | Safety compliance      | IEC 62368-1                                                                                                          | IEC 62368-1                                                                                                          | IEC 62368-1                                                                                                          | IEC 62368-1                                                                                                          | IEC 62368-1                                                                                                          |
| Certification                    | CE, FCC                | CE;FCC                                                                                                               | CE;FCC                                                                                                               | CE;FCC                                                                                                               | CE;FCC                                                                                                               | CE;FCC                                                                                                               |
| Mounting                         | Mounting               | Rack installation                                                                                                    | Rack installation                                                                                                    | Rack installation                                                                                                    | Rack installation                                                                                                    | Rack installation                                                                                                    |
| Casing                           | Casing                 | Metal                                                                                                                | Metal                                                                                                                | Metal                                                                                                                | Metal                                                                                                                | Metal                                                                                                                |
| Cable Hot-Swappable              | Hot swapping of cables | Supported by all ports                                                                                               | Supported by all ports                                                                                               | Supported by all ports                                                                                               | Supported by all ports                                                                                               | Supported by all ports                                                                                               |
| Mean Time Between Failure (MTBF) | MTBF                   | 400000H                                                                                                              | 400000H                                                                                                              | 400000H                                                                                                              | 400000H                                                                                                              | 400000H                                                                                                              |
| Warranty                         | Warranty Card          | 5                                                                                                                    | 5                                                                                                                    | 5                                                                                                                    | 5                                                                                                                    | 5                                                                                                                    |
| EEE                              | EEE                    | Yes                                                                                                                  | Yes                                                                                                                  | Yes                                                                                                                  | Yes                                                                                                                  | Yes                                                                                                                  |
| Environment and Reliability      | Operating temperature  | 0 to 50°C                                                                                                            | 0 to 50°C                                                                                                            | 0 to 50°C                                                                                                            | 0 to 50°C                                                                                                            | 0 to 50°C                                                                                                            |
|                                  | Storage temperature    | -40 to 70°C                                                                                                          | -40 to 70°C                                                                                                          | -40 to 70°C                                                                                                          | -40 to 70°C                                                                                                          | -40 to 70°C                                                                                                          |
|                                  | Operating humidity     | 10% to 90% RH(non-condensing)                                                                                        | 10% to 90% RH(non-condensing)                                                                                        | 10% to 90% RH(non-condensing)                                                                                        | 10% to 90% RH(non-condensing)                                                                                        | 10% to 90% RH(non-condensing)                                                                                        |

| Specifications   |                          | RG-NBS3200-24GT4XS                           | RG-NBS3200-48GT4XS                           | RG-NBS3200-24SFP/8GT4XS                      | RG-NBS3200-24GT4XS-P                         | RG-NBS3200-48GT4XS-P                         |
|------------------|--------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|
|                  | Storage humidity         | 5% to 95% RH(non-condensing)                 | 5% to 95% RH(non-condensing)                 | 5% to 95% RH(non-condensing)                 | 5% to 95% RH(non-condensing)                 | 5% to 95% RH(non-condensing)                 |
|                  | Operating altitude       | -500~5000M                                   | -500~5000M                                   | -500~5000M                                   | -500~5000M                                   | -500~5000M                                   |
|                  | ESD protection           | Air Discharge: 8kV<br>Contact Discharge: 6kV | Air Discharge: 8kV<br>Contact Discharge: 6kV | Air Discharge: 8kV<br>Contact Discharge: 6kV | Air Discharge: 8kV<br>Contact Discharge: 6kV | Air Discharge: 8kV<br>Contact Discharge: 6kV |
|                  | Surge protection         | Common Mode 6kV                              | Common Mode 6kV                              | Common Mode 6kV                              | Common Mode 6kV                              | Common Mode 6kV                              |
|                  | Surge protection         | Common Mode 6kV<br>Differential mode 6kV     | Common Mode 6kV<br>Differential mode 6kV     | Common Mode 6kV<br>Differential mode 6kV     | Common Mode 6kV<br>Differential mode 6kV     | Common Mode 6kV<br>Differential mode 6kV     |
| Package Contents | Dimensions (W x D x H)   | 440mm x 207.5mm x 43.6mm                     | 440mm x 267.5mm x 43.6mm                     | 440mm x 267.5mm x 43.6mm                     | 440mm x 357.6mm x 43.6mm                     | 440mm x 357.6mm x 43.6mm                     |
|                  | Weight                   | 2.9 kg                                       | 3.6 kg                                       | 3.35 kg                                      | 4.75 kg                                      | 5.4 kg                                       |
|                  | Shipping weight          | 4.02kg                                       | 5.14kg                                       | 4.9kg                                        | 6.51kg                                       | 7.13kg                                       |
|                  | Rack-mount bracket       | 2                                            | 2                                            | 2                                            | 2                                            | 2                                            |
|                  | Screw                    | M4 Screw*8                                   | M4 Screw*8                                   | M4 Screw*8                                   | M4 Screw*8                                   | M4 Screw*8                                   |
|                  | User Manual              | 1                                            | 1                                            | 1                                            | 1                                            | 1                                            |
|                  | Rubber pad               | 4                                            | 4                                            | 4                                            | 4                                            | 4                                            |
|                  | Input power supply       | Single fixed power supply                    | Single fixed power supply                    | Single fixed power supply                    | Single fixed power supply                    | Single fixed power supply                    |
|                  | Warranty Card            | 1                                            | 1                                            | 1                                            | 1                                            | 1                                            |
| L2               |                          |                                              |                                              |                                              |                                              |                                              |
| Jumbo Frame      | Jumbo frame length (MTU) | 9216 Bytes(Per-port MTU)                     | 9216 Bytes(Per-port MTU)                     | 9216 Bytes(Per-port MTU)                     | 9216 Bytes(Per-port MTU)                     | 9216 Bytes(Per-port MTU)                     |
| port             | Port flow control        | Yes                                          | Yes                                          | Yes                                          | Yes                                          | Yes                                          |
|                  | PoE watchdog             | N/A                                          | N/A                                          | N/A                                          | Yes                                          | Yes                                          |
|                  | Port isolation           | Yes                                          | Yes                                          | Yes                                          | Yes                                          | Yes                                          |

| Specifications   |                       | RG-NBS3200-24GT4XS | RG-NBS3200-48GT4XS | RG-NBS3200-24SFP/8GT4XS | RG-NBS3200-24GT4XS-P | RG-NBS3200-48GT4XS-P |
|------------------|-----------------------|--------------------|--------------------|-------------------------|----------------------|----------------------|
|                  | EEE                   | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                  | Cable Test            | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| VLAN             | IEEE802.1Q VLAN       | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                  | Port-based VLAN       | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                  | Voice VLAN            | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| STP              | STP (IEEE 802.1d)     | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                  | RSTP (IEEE 802.1w)    | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                  | MSTP (IEEE 802.1s)    | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| G.8032 (ERPS)    | ERPS                  | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| LLDP             | LLDP                  | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                  | LLDP-MED              | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| SPAN             | Port mirroring        | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                  | Mirroring             | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| IGMP             | IGMPv1 snooping       | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                  | IGMPv2 snooping       | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                  | Basic IGMPv3 snooping | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                  | Full IGMPv3 snooping  | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                  | IGMP filtering        | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| Mac Address      | Static MAC address    | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                  | MAC address filtering | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| Link Aggregation | Static aggregation    | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                  | Load balancing        | Yes                | Yes                | Yes                     | Yes                  | Yes                  |

| Specifications     |                               | RG-NBS3200-24GT4XS | RG-NBS3200-48GT4XS | RG-NBS3200-24SFP/8GT4XS | RG-NBS3200-24GT4XS-P | RG-NBS3200-48GT4XS-P |
|--------------------|-------------------------------|--------------------|--------------------|-------------------------|----------------------|----------------------|
|                    | LACP                          | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| Storm Suppression  | Broadcast storm control       | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                    | Multicast storm control       | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                    | Unknown unicast storm control | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| L3                 |                               |                    |                    |                         |                      |                      |
| ARP                | ARP                           | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| IPv4               | IPv4 ping                     | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                    | IPv4 static route             | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                    | IPv4 traceroute               | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| IPv6 Configuration | IPv6 static route             | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                    | ICMPv6                        | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                    | IPv6 ping                     | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                    | IPv6 traceroute               | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| DNS                | DNS client                    | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                    | DNSv6 client                  | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| DHCP               | DHCP relay                    | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| DHCP               | DHCP snooping                 | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| DHCP               | DHCP client                   | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| HTTP v6            | HTTP Access by IPv6           | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| High Features      |                               |                    |                    |                         |                      |                      |
| ACL                | Standard ACL                  | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                    | Extended MAC ACL              | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                    | Extended IP ACL               | Yes                | Yes                | Yes                     | Yes                  | Yes                  |

| Specifications          |                                                | RG-NBS3200-24GT4XS | RG-NBS3200-48GT4XS | RG-NBS3200-24SFP/8GT4XS | RG-NBS3200-24GT4XS-P | RG-NBS3200-48GT4XS-P |
|-------------------------|------------------------------------------------|--------------------|--------------------|-------------------------|----------------------|----------------------|
|                         | IPv6 ACL                                       | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| QoS                     | 802.1p traffic classification                  | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                         | DSCP-based traffic classification              | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                         | Egress queues based on 802.1p and DSCP         | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                         | SP                                             | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                         | WRR                                            | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                         | SP+WRR                                         | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                         | Global QoS                                     | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                         | Interface-based rate limiting (ingress/egress) | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| Online Upgrade          | Online Upgrade                                 | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| RLOG                    | RLOG                                           | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| Self-Organizing Network | SON                                            | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| syslog                  | System log                                     | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| Client Identification   | Client discovery                               | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| ALARM                   | Camera detection                               | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                         | Loop alarm                                     | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                         | MAC address entries                            | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                         | IP address pool conflicts                      | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                         | Full ARP table                                 | Yes                | Yes                | Yes                     | Yes                  | Yes                  |

| Specifications              |                                  | RG-NBS3200-24GT4XS | RG-NBS3200-48GT4XS | RG-NBS3200-24SFP/8GT4XS | RG-NBS3200-24GT4XS-P | RG-NBS3200-48GT4XS-P |
|-----------------------------|----------------------------------|--------------------|--------------------|-------------------------|----------------------|----------------------|
|                             | PoE service failure              | NO                 | NO                 | NO                      | Yes                  | Yes                  |
|                             | PoE power overload               | NO                 | NO                 | NO                      | Yes                  | Yes                  |
| Radius                      | RADIUS                           | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| 802.1X                      | 802.1X authentication            | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                             | Port-based 802.1X authentication | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                             | MAC-based 802.1X authentication  | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
|                             | Guest VLAN                       | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| IP+MAC Port Binding         | IP-MAC-port binding              | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| Anti-ARP Spoofing           | ARP anti-spoofing                | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| IP Source Guard             | IP source guard                  | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| CPU Protection Policy (CPP) | CPU Protection Policy            | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| Management Features         |                                  |                    |                    |                         |                      |                      |
| Web Management              | eWeb                             | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| MACC                        | Ruijie Cloud                     | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| APP                         | Ruijie Reyee App                 | Yes                | Yes                | Yes                     | Yes                  | Yes                  |
| SNMP                        | SNMPv1, v2c, and v3              | Yes                | Yes                | Yes                     | Yes                  | Yes                  |

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