

RG-NBS3100/3200 Series L2/L2+ Cloud Managed Switch

DATASHEET

[Explore More ▶](#)



Highlights

- Enterprise-class Quality and Features Ensures High Performance
- Multiple Security Policies Protect Your Network
- IP Camera Recognition, Unique Value for CCTV Network
- Lifetime Free Cloud Management on Ruijie Cloud at Anytime Anywhere

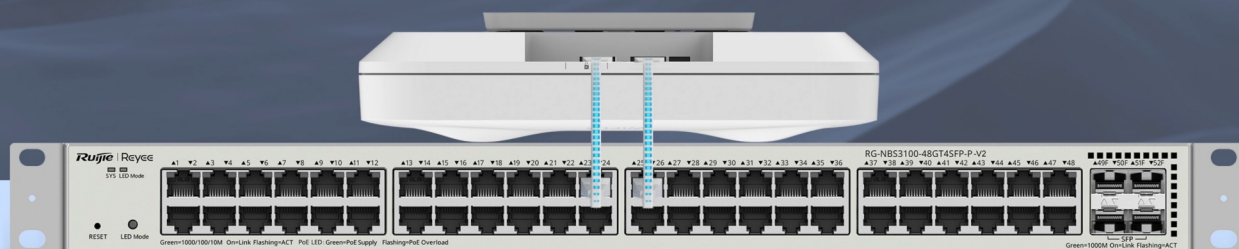
Highlight Features

Enterprise-Class Quality Ensures High Performance

[Link Aggregation](#)

[IGMP Snooping](#)

[VLAN](#)



Enterprise-Class Quality Ensures High Performance

[Link Aggregation](#)

[IGMP Snooping](#)

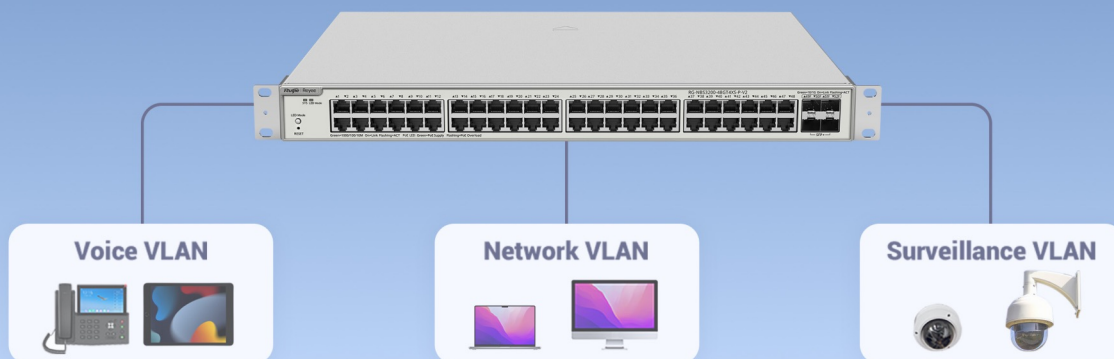
[VLAN](#)



Highlight Features

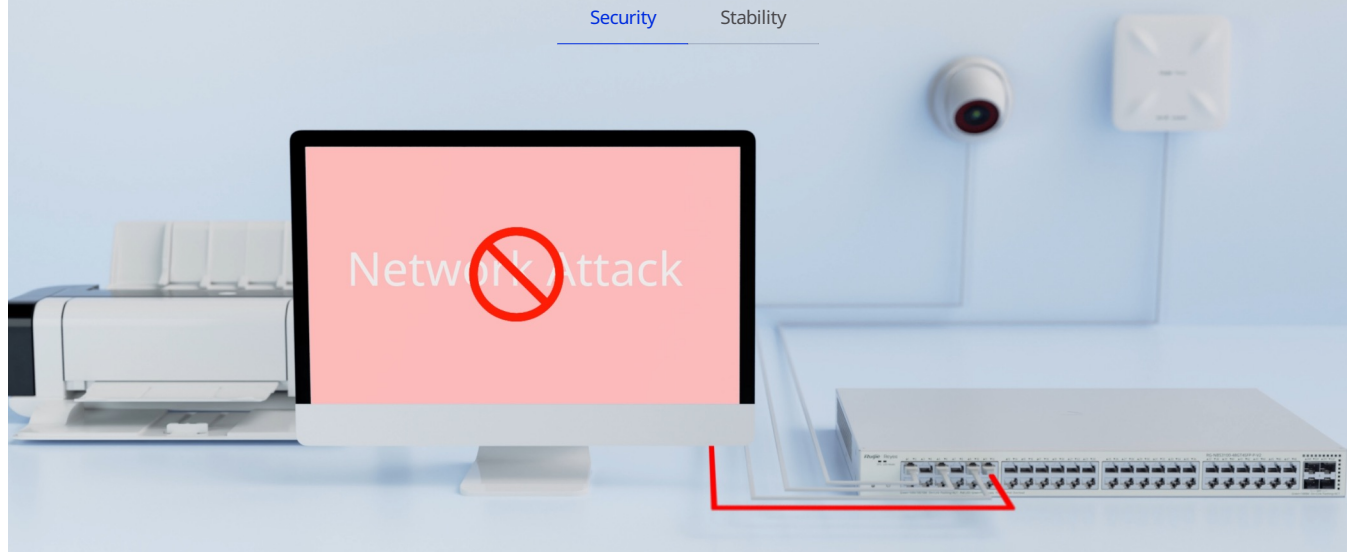
Enterprise-Class Quality Ensures High Performance

Link Aggregation IGMP Snooping VLAN



Multiple Security Policies Protect Your Network

Security Stability



Highlight Features

Multiple Security Policies Protect Your Network

Security

Stability

CPU Utilization: 41%



Ruijie Cloud: Make Your Business Easy

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



Specifications

Specifications		RG-NBS3100-8GT2SFP	RG-NBS3100-24GT4SFP-V2	RG-NBS3100-8GT2SFP-P-V2	RG-NBS3100-24GT4SFP-P-V2	RG-NBS3100-48GT4SFP-P-V2
Hardware Specifications						
Port Specifications	Number of 10/100BASE-T ports	No	No	No	No	No
	Number of 10/100/1000BASE-T ports	8	24	8	24	48
	Number of 10/100/1000/2500BASE-T ports	No	No	No	No	No
	Number of 10/100/1000/2.5G/5G/10GB ASE-T ports	No	No	No	No	No
	Number of 1GE SFP ports	2	4	2	4	4
	Number of 10GE SFP+ ports	No	No	No	No	No
	Number of 10GE combo ports	No	No	No	No	No
	Total number of optical ports	2	4	2	4	4
	Total number of RJ45 ports	8	24	8	24	48
Interface Specifications	Reset button	1	1	1	1	1
	DIP switch	No	No	Moving the switch to the left (Mode 1): The port LED indicates the switch status.	Moving the switch to the left (Mode 1): The port LED indicates the switch status.	No

Specifications		RG-NBS3100-8GT2SFP	RG-NBS3100-24GT4SFP-V2	RG-NBS3100-8GT2SFP-P-V2	RG-NBS3100-24GT4SFP-P-V2	RG-NBS3100-48GT4SFP-P-V2
				Moving the switch to the right (Mode 2): The port LED indicates the PoE status.	Moving the switch to the right (Mode 2): The port LED indicates the PoE status.	
	Module slots	No	No	No	No	No
System Specifications	CPU	MAC chip, single-core processor, 500 MHz clock frequency	MAC chip, single-core processor, 500 MHz clock frequency	MAC chip, single-core processor, 500 MHz clock frequency	MAC chip, single-core processor, 500 MHz clock frequency	MAC chip, dual-core processor, 1GHz clock frequency per core
	Flash memory	16MB	16MB	16MB	16MB	256MB
	RAM	256MB	512MB	512MB	512MB	512MB
	Forwarding rate	15Mpps	42Mpps	15Mpps	78Mpps	78Mpps
	Switching capacity	20 Gbps(bit/s)	56 Gbps(bit/s)	20 Gbps(bit/s)	56 Gbps(bit/s)	104 Gbps(bit/s)
Power Supply and Consumption	Power supply	DC Power adapter	Fixed power supply	Fixed power supply	Fixed power supply	Fixed power supply
	Power input	DC adapter: <ul style="list-style-type: none">Rated input voltage: 100 V AC to 240 V AC, 50/60 HzMaximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 HzRated input current: 1.0 A Output: <ul style="list-style-type: none">Rated output voltage: 12 V DCMaximum output current: 1.0 A	220 V AC power supply: <ul style="list-style-type: none">Rated input voltage: 100 V AC to 240 V AC, 50/60 HzMaximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 HzMaximum input current: 0.6 A	220 V AC power supply: <ul style="list-style-type: none">Rated input voltage: 100 V AC to 240 V AC, 50/60 HzMaximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 HzMaximum input current: 2.5 A	220 V AC power supply: <ul style="list-style-type: none">Rated input voltage: 100 V AC to 240 V AC, 50/60 HzMaximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 HzMaximum input current: 6 A	220 V AC power supply: <ul style="list-style-type: none">Rated input voltage: 100 V AC to 240 V AC, 50/60 HzMaximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 HzMaximum input current: 6 A
	Power output	No	No	No	No	No
	PoE power pins	No	No	1-2 (+), 3-6 (-)	1-2 (+), 3-6 (-)	1-2 (+), 3-6 (-)

Specifications		RG-NBS3100-8GT2SFP	RG-NBS3100-24GT4SFP-V2	RG-NBS3100-8GT2SFP-P-V2	RG-NBS3100-24GT4SFP-P-V2	RG-NBS3100-48GT4SFP-P-V2
	Maximum PoE output power of the device	No	No	125W	370W	370W
	Maximum power consumption	8W	21 W	11 W (with no PoE load) 145 W (with full PoE load)	21 W (with no PoE load) 443 W (with full PoE load)	46 W (with no PoE load) 450 W (with full PoE load)
	Number of PoE Out ports	No	No	8	24	48
	Number of PoE/PoE+ out ports	N/A	N/A	8	24	48
	Number of PoE/PoE+/PoE ++ Out ports	No	No	No	No	No
Dimensions and Weight	Dimensions (W x D x H)	260mm x 120mm x 43.6mm (10.24 in. x 4.72 in. x 1.72 in.)	440mm x 165mm x 44mm (17.32 in. x 6.5 in. x 1.73 in.)	300mm x 205mm x 44mm (11.81 in. x 8.07 in. x 1.73 in.)	440mm x 215mm x 44mm (17.32 in. x 8.46 in. x 1.73 in.)	440mm x 293mm x 44mm (17.32 in. x 11.54 in. x 1.73 in.)
	Weight	1.2 kg (2.65 lbs) (without packaging materials)	2.4 kg (5.29 lbs) (without packaging materials)	1.80 kg (3.97 lbs) (without packaging materials)	3 kg (6.61 lbs) (without packaging materials)	4.32 kg (9.52 lbs) (without packaging materials)
	Shipping weight	1.6kg (3.53 lbs)	2.52kg (5.56 lbs)	2.50kg (5.51 lbs)	3.53kg (7.78 lbs)	5.86kg (12.92 lbs)
	Casing	Metal	Metal	Metal	Metal	Metal
Environment and Reliability	Mounting options	Rack	Rack	Rack	Rack	Rack
	Operating temperature	0°C to +50°C (32°F to 122°F)	0°C to +50°C (32°F to 122°F)	0°C to +50°C (32°F to 122°F)	0°C to +50°C (32°F to 122°F)	0°C to +50°C (32°F to 122°F)
	Storage temperature	−40°C to +70°C (−40°F to +158°F)	−40°C to +70°C (−40°F to +158°F)	−40°C to +70°C (−40°F to +158°F)	−40°C to +70°C (−40°F to +158°F)	−40°C to +70°C (−40°F to +158°F)
	Operating humidity	10% RH to 90% RH (non-condensing)	10% RH to 90% RH (non-condensing)	10% RH to 90% RH (non-condensing)	10% RH to 90% RH (non-condensing)	10% RH to 90% 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-V2
	Storage humidity	5% RH to 95% RH (non-condensing)	5% RH to 95% RH (non-condensing)	5% RH to 95% RH (non-condensing)	5% RH to 95% RH (non-condensing)	5% RH to 95% RH (non-condensing)
	Altitude	Operating altitude: -500 m to +5,000 m (-1,640.42 ft. to +16,404.20 ft.) Storage altitude: -500 m to +5,000 m (-1,640.42 ft. to +16,404.20 ft.)	Operating altitude: -500 m to +5,000 m (-1,640.42 ft. to +16,404.20 ft.) Storage altitude: -500 m to +5,000 m (-1,640.42 ft. to +16,404.20 ft.)	Operating altitude: -500 m to +5,000 m (-1,640.42 ft. to +16,404.20 ft.) Storage altitude: -500 m to +5,000 m (-1,640.42 ft. to +16,404.20 ft.)	Operating altitude: -500 m to +5,000 m (-1,640.42 ft. to +16,404.20 ft.) Storage altitude: -500 m to +5,000 m (-1,640.42 ft. to +16,404.20 ft.)	Operating altitude: 0 m to +5,000 m (0 ft. to +16,404.20 ft.) Storage altitude: 0 m to +5,000 m (0 ft. to +16,404.20 ft.)
	Fan	Fanless design	Fanless design	Fanless design	1 x fixed fan	2 x fixed fans
	MTBF	400,000 hours	400,000 hours	400,000 hours	400,000 hours	400,000 hours
	Cooling	Natural cooling	Natural cooling	Natural cooling	Air cooling, front-to-rear airflow + left-to-rear airflow	Air cooling, side-to-rear airflow
	Acoustic noise	No	No	No	25°C (77°F): 45 dB	23°C (73.4°F): 30 dB (with half PoE load) 50°C (122°F): 48 dB (with full PoE load)
	Hot swapping of cables	Service ports support hot swapping of cables.	Service ports support hot swapping of cables.	Service ports support hot swapping of cables.	Service ports support hot swapping of cables.	Service ports support hot swapping of cables.
	ESD protection	Contact discharge: 6 kV Air discharge: 8 kV	Contact discharge: 6 kV Air discharge: 8 kV	Contact discharge: 6 kV Air discharge: 8 kV	Contact discharge: 6 kV Air discharge: 8 kV	Contact discharge: 6 kV Air discharge: 8 kV
	Surge protection	Service port: ±6 kV for common mode Power connector: ±4 kV for	Service port: ±6 kV for common mode Power connector: ±6 kV	Service port: ±6 kV for common mode Power connector: ±6 kV for both common mode	Service port: ±6 kV for common mode Power connector: ±6 kV for both common mode	Service port: ±6 kV for common mode Power connector: ±6 kV

Specifications		RG-NBS3100-8GT2SFP	RG-NBS3100-24GT4SFP-V2	RG-NBS3100-8GT2SFP-P-V2	RG-NBS3100-24GT4SFP-P-V2	RG-NBS3100-48GT4SFP-P-V2
		common mode and ±2 kV for differential mode	for both common mode and differential mode	and differential mode	and differential mode	for both common mode and differential mode
	Hot swapping of fan modules	No	No	No	No	No
	Corrosion class	No	No	No	No	No
Certification and Regulatory Compliance	Safety compliance	IEC 62368-1	IEC 62368-1	IEC 62368-1	IEC 62368-1	IEC 62368-1
	EMC	EN 5032:2015+AC:2016	EN 5032:2015+AC:2016	EN 5032:2015+AC:2016	EN 5032:2015+AC:2016	EN 55032:2015+A1:2020
		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+A1:2019+A2:2021
		EN 61000-3-3:2013	EN 61000-3-3:2013	EN 61000-3-3:2013	EN 61000-3-3:2013	EN IEC 61000-3-2:2019+A1:2021
		EN 55035:2017	EN 55035:2017	EN 55035:2017	EN 55035:2017	EN 55035:2017+A11:2020
		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)	EN 300386 V2.2.1
Product Information	Certification	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE
	Warranty	5 years	5 years	5 years	5 years	5 years
Software Specifications						
Network Management and	Fan speed and adjustment	No	No	No	Automatic speed adjustment	Intelligent speed adjustment
	HTTP login	Yes	Yes	Yes	Yes	Yes
	HTTPS login	Yes	Yes	Yes	Yes	Yes
	SON	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-V2
Monitoring	Camera detection	Yes	Yes	Yes	Yes	Yes
	Syslog	Yes	Yes	Yes	Yes	Yes
	Client auto-discovery	Yes	Yes	Yes	Yes	Yes
	eWeb management	Yes	Yes	Yes	Yes	Yes
	Ruijie Cloud management	Yes	Yes	Yes	Yes	Yes
	Ruijie Reyeer App management	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	No	No	No	No	No
	PoE service failure	No	No	Yes	Yes	Yes
	PoE power overload	No	No	Yes	Yes	Yes
	SNMPv1, v2c, and v3	Yes	Yes	Yes	Yes	Yes
	RLOG	Yes	Yes	Yes	Yes	Yes
	Port mirroring	Yes	Yes	Yes	Yes	Yes
	Mirroring	Yes	Yes	Yes	Yes	Yes
	SSH	No	No	No	No	No
Ethernet Switching	Interface flow control	Yes	Yes	Yes	Yes	Yes
	MAC address filtering	Yes	Yes	Yes	Yes	Yes
	Static MAC address	Yes	Yes	Yes	Yes	Yes
	Maximum number of	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-V2
	MAC address entries					
	Interface-based VLAN	Yes	Yes	Yes	Yes	Yes
	MAC address-based VLAN	No	No	No	No	No
	Voice VLAN	Yes	Yes	Yes	Yes	Yes
	Maximum number of VLANs	4094	4094	4094	4094	4094
	Basic QinQ	No	No	No	No	No
	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
	LLDP	Yes	Yes	Yes	Yes	Yes
	LLDP-MED	Yes	Yes	Yes	Yes	Yes
	Inbound or outbound rate limiting based on interface traffic	Yes	Yes	Yes	Yes	Yes
	IEEE 802.1Q VLAN	Yes	Yes	Yes	Yes	Yes
	Static aggregation	Yes	Yes	Yes	Yes	Yes
	LACP	Yes	Yes	Yes	Yes	Yes
	IP subnet-based VLAN assignment	No	No	No	No	No
Basic Configurations	Online upgrade	Yes	Yes	Yes	Yes	Yes
	PoE watchdog	No	No	Yes	Yes	Yes
	ERPS	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-V2
Reliability	Load balancing	No	No	No	No	No
	System dual backup	No	No	No	No	Yes
	Uboot partition dual backup	No	No	No	No	Yes
Interface	Jumbo frame length (MTU)	9216 bytes (global configuration mode)	9216 bytes (global configuration mode)	9216 bytes (global configuration mode)	9216 bytes (global configuration mode)	9216 bytes (interface configuration mode)
	EEE	Yes	Yes	Yes	Yes	Yes
	Cable test	Yes	Yes	Yes	Yes	Yes
IP Service	ARP	Yes	Yes	Yes	Yes	Yes
	Maximum number of ARP entries	1000	1000	1000	1000	1000
	IPv4 ping	Yes	Yes	Yes	Yes	Yes
	IPv4 traceroute	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 client	Yes	Yes	Yes	Yes	Yes
	DNSv6 client	Yes	Yes	Yes	Yes	Yes
	DHCP server	No	No	No	No	No
	DHCP relay	No	No	No	No	No
	DHCP client	Yes	Yes	Yes	Yes	Yes
Security	IP-MAC-port binding	Yes	Yes	Yes	Yes	Yes
	DHCP snooping	Yes	Yes	Yes	Yes	Yes
	Broadcast 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-V2
	Multicast storm control	Yes	Yes	Yes	Yes	Yes
	Unknown unicast storm control	Yes	Yes	Yes	Yes	Yes
	Standard ACL	Yes	Yes	Yes	Yes	Yes
	Extended MAC ACL	Yes	Yes	Yes	Yes	Yes
	Extended Ip ACL	Yes	Yes	Yes	Yes	Yes
	IPv6 ACL	Yes	Yes	Yes	Yes	Yes
	Port isolation	Yes	Yes	Yes	Yes	Yes
	CPU Protection Policy	Yes	Yes	Yes	Yes	Yes
	IP source guard	Yes	Yes	Yes	Yes	Yes
	ARP anti-spoofing	Yes	Yes	Yes	Yes	Yes
	Maximum number of ACEs	Number of ACEs in the inbound direction of an interface: 1200 Number of ACEs in the outbound direction of an interface: 0	Number of ACEs in the inbound direction of an interface: 1200 Number of ACEs in the outbound direction of an interface: 0	Number of ACEs in the inbound direction of an interface: 1200 Number of ACEs in the outbound direction of an interface: 0	Number of ACEs in the inbound direction of an interface: 1200 Number of ACEs in the outbound direction of an interface: 0	Number of ACEs in the inbound direction of an interface: 1900 Number of ACEs in the outbound direction of an interface: 0
Multicast	IGMPv1 snooping	Yes	Yes	Yes	Yes	Yes
	IGMPv2 snooping	Yes	Yes	Yes	Yes	Yes
	Basic IGMPv3 snooping	No	No	No	No	No
	Full IGMPv3 snooping	No	No	No	No	No
	IGMP filtering	Yes	Yes	Yes	Yes	Yes
	IGMPv1, v2, and v3	No	No	No	No	No

Specifications		RG-NBS3100-8GT2SFP	RG-NBS3100-24GT4SFP-V2	RG-NBS3100-8GT2SFP-P-V2	RG-NBS3100-24GT4SFP-P-V2	RG-NBS3100-48GT4SFP-P-V2
IP Routing	IPv4 static route	No	No	No	No	No
	IPv6 static route	No	No	No	No	No
	OSPFv2	No	No	No	No	No
	OSPFv3	No	No	No	No	No
Authentication	802.1X authentication	Yes	Yes	Yes	Yes	Yes
	Interface-based 802.1X authentication	Yes	Yes	Yes	Yes	Yes
	MAC address-based 802.1X authentication	Yes	Yes	Yes	Yes	Yes
	Guest VLAN	Yes	Yes	Yes	Yes	Yes
	RADIUS	Yes	Yes	Yes	Yes	Yes
Gateway Features	802.1p priority-based traffic classification	Yes	Yes	Yes	Yes	Yes
	DSCP priority-based traffic classification	Yes	Yes	Yes	Yes	Yes
	Egress queues based on 802.1p and DSCP priorities	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
System Perform	Recommended camera limit	200 W H265: 80 400 W H265: 40	200 W H265: 120 400 W H265: 60	200 W H265: 80 400 W H265: 40	200 W H265: 120 400 W H265: 60	200 W H265: 200 400 W H265: 100

Specifications		RG-NBS3100-8GT2SFP	RG-NBS3100-24GT4SFP-V2	RG-NBS3100-8GT2SFP-P-V2	RG-NBS3100-24GT4SFP-P-V2	RG-NBS3100-48GT4SFP-P-V2
ance						
Capacity						
Product Information						
Product category	/	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2
Package Contents						
Accessories	Rack-mount bracket	2	2	2	2	2
	Screw	6 M3 x 6 mm cross recessed countersunk head screws	6 M4 x 8 mm cross recessed countersunk head screws	6 M3 x 6 mm cross recessed countersunk head screws	6 M4 x 8 mm cross recessed countersunk head screws	6 M4 x 8 mm cross recessed countersunk head screws
	Rubber pad	4	4	4	4	4
Manual	User Manual	1	1	1	1	1
	Warranty Card	1	1	1	1	1

/ Specifications

Specifications		RG-NBS3200-24GT4XS	RG-NBS3200-24GT4XS-P-V2	RG-NBS3200-48GT4XS	RG-NBS3200-48GT4XS-P-V2	RG-NBS3200-24SFP/8GT4XS
Hardware Specifications						
Port Specifications	Number of 10/100BASE-T ports	No	No	No	No	No
	Number of 10/100/1000BASE-T ports	24	24	48	48	8 (including eight combo ports)
	Number of 10/100/1000/2500BASE-T ports	No	No	No	No	No

Specifications		RG-NBS3200-24GT4XS	RG-NBS3200-24GT4XS-P-V2	RG-NBS3200-48GT4XS	RG-NBS3200-48GT4XS-P-V2	RG-NBS3200-24SFP/8GT4XS
	Number of 10/100/1000/2.5G/5G/10GBAS E-T ports	No	No	No	No	No
	Number of 1GE SFP ports	No	No	No	No	24 (including eight combo ports)
	Number of 10GE SFP+ ports	4	4	4	4	4
	Number of 10GE combo ports	No	No	No	No	No
	Total number of optical ports	4	4	4	4	28 (including eight combo ports)
	Total number of RJ45 ports	24	24	48	48	8 (including eight combo ports)
Interface Specifications	Reset button	1	1	1	1	1
	DIP switch	No	No	No	No	No
	Module slots	No	No	No	No	No
System Specifications	CPU	MAC chip, single-core processor, 800 MHz clock frequency	MAC chip, single-core processor, 800 MHz clock frequency	MAC chip, dual-core processor, 1 GHz clock frequency per core	MAC chip, dual-core processor, 1 GHz clock frequency per core	MAC chip, single-core processor, 800 MHz clock frequency
	Flash memory	256MB	256MB	256MB	256MB	256MB
	RAM	512MB	512MB	1GB	512MB	512MB
	Forwarding rate	96Mpps	96Mpps	132Mpps	132Mpps	96Mpps
	Switching capacity	128 Gbps(bit/s)	128 Gbps(bit/s)	216 Gbps(bit/s)	176 Gbps(bit/s)	128 Gbps(bit/s)

Specifications		RG-NBS3200-24GT4XS	RG-NBS3200-24GT4XS-P-V2	RG-NBS3200-48GT4XS	RG-NBS3200-48GT4XS-P-V2	RG-NBS3200-24SFP/8GT4XS
Power Supply and Consumption	Power supply	Fixed power supply	Fixed power supply	Fixed power supply	Fixed power supply	Fixed power supply
	Power input	220 V AC power supply: <ul style="list-style-type: none">• Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz• Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz• Maximum input current: 1.5 A	220 V AC power supply: <ul style="list-style-type: none">• Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz• Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz• Maximum input current: 6 A	220 V AC power supply: <ul style="list-style-type: none">• Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz• Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz• Maximum input current: 2 A	220 V AC power supply: <ul style="list-style-type: none">• Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz• Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz• Maximum input current: 6 A	220 V AC power supply: <ul style="list-style-type: none">• Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz• Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz• Maximum input current: 2 A
	Power output	No	No	No	No	No
	PoE power pins	No	1-2 (+), 3-6 (-)	No	1-2 (+), 3-6 (-)	No
	Maximum PoE output power of the device	No	370W	No	370W	No
	Maximum power consumption	28.028W	30 W (with no PoE load) 430 W (with full PoE load)	46.4 W	46 W (with no PoE load) 450 W (with full PoE load)	41.8 W
	Number of PoE Out ports	No	24	No	48	No
	Number of PoE/PoE+ out ports	No	24	No	48	No
	Number of PoE/PoE+/PoE+ + Out ports	No	No	No	No	No
Dimensions and Weight	Dimensions (W x D x H)	440 mm x 207.5 mm x 43.6 mm (17.32 in. x 8.17 in. x 1.72 in.)	440 mm x 222.6 mm x 44 mm (17.32 in. x 8.76 in. x 1.73 in.)	440 mm x 267.5 mm x 43.6 mm (17.32 in. x 10.53 in. x 1.72 in.)	440 mm x 300.6 mm x 44 mm (17.32 in. x 11.83 in. x 1.73 in.)	440 mm x 267.5 mm x 43.6 mm (17.32 in. x 10.53 in. x 1.72 in.)
	Weight	2.9 kg (6.39 lbs) (without packaging materials)	2.88 kg (6.35 lbs) (without packaging materials)	3.6 kg (7.94 lbs) (without packaging materials)	4.32 kg (9.52 lbs) (without packaging materials)	3.35 kg (7.39 lbs) (without packaging materials)

Specifications		RG-NBS3200-24GT4XS	RG-NBS3200-24GT4XS-P-V2	RG-NBS3200-48GT4XS	RG-NBS3200-48GT4XS-P-V2	RG-NBS3200-245FP/8GT4XS
	Shipping weight	4.02 kg (8.86 lbs)	4.00 kg (8.82 lbs)	5.14 kg (11.33 lbs)	5.86 kg (12.92 lbs)	4.9 kg (10.8 lbs)
	Casing	Metal	Metal	Metal	Metal	Metal
Environment and Reliability	Mounting options	Rack	Rack	Rack	Rack	Rack
	Operating temperature	0°C to +50°C (32°F to 122°F)	0°C to +50°C (32°F to 122°F)	0°C to +50°C (32°F to 122°F)	0°C to +50°C (32°F to 122°F)	0°C to +50°C (32°F to 122°F)
	Storage temperature	−40°C to +70°C (−40°F to +158°F)	−40°C to +70°C (−40°F to +158°F)	−40°C to +70°C (−40°F to +158°F)	−40°C to +70°C (−40°F to +158°F)	−40°C to +70°C (−40°F to +158°F)
	Operating humidity	10% RH to 90% RH (non-condensing)	10% RH to 90% RH (non-condensing)	10% RH to 90% RH (non-condensing)	10% RH to 90% RH (non-condensing)	10% RH to 90% RH (non-condensing)
	Storage humidity	5% RH to 95% RH (non-condensing)	5% RH to 95% RH (non-condensing)	5% RH to 95% RH (non-condensing)	5% RH to 95% RH (non-condensing)	5% RH to 95% RH (non-condensing)
	Altitude	Operating altitude: −500 m to +5,000 m (−1,640.42 ft. to +16,404.20 ft.) Storage altitude: −500 m to +5,000 m (−1,640.42 ft. to +16,404.20 ft.)	Operating altitude: 0 m to +5,000 m (0 ft. to +16,404.20 ft.) Storage altitude: 0 m to +5,000 m (0 ft. to +16,404.20 ft.)	Operating altitude: −500 m to +5,000 m (−1,640.42 ft. to +16,404.20 ft.) Storage altitude: −500 m to +5,000 m (−1,640.42 ft. to +16,404.20 ft.)	Operating altitude: 0 m to +5,000 m (0 ft. to +16,404.20 ft.) Storage altitude: 0 m to +5,000 m (0 ft. to +16,404.20 ft.)	Operating altitude: −500 m to +5,000 m (−1,640.42 ft. to +16,404.20 ft.) Storage altitude: −500 m to +5,000 m (−1,640.42 ft. to +16,404.20 ft.)
	Fan	1 x fixed fan	2 x fixed fans	2 x fixed fans	2 x fixed fans	2 x fixed fans
	MTBF	400,000 hours	400,000 hours	400,000 hours	400,000 hours	400,000 hours
	Cooling	Air cooling, left-to-rear airflow	Air cooling, left-to-right airflow	Air cooling, side-to-rear airflow	Air cooling, side-to-rear airflow	Air cooling, left-to-rear airflow
	Acoustic noise	25°C (77°F): 45 dB	23°C (73.4°F): 32 dB (with half PoE load) 50°C (122°F): 49 dB (with full PoE load)	25°C (77°F): 45 dB	23°C (73.4°F): 30 dB (with half PoE load) 50°C (122°F): 48 dB (with full PoE load)	25°C (77°F): 45 dB
	Hot swapping of cables	Service ports support hot swapping of cables.	Service ports support hot swapping of cables.	Service ports support hot swapping of cables.	Service ports support hot swapping of cables.	Service ports support hot swapping of cables.

Specifications		RG-NBS3200-24GT4XS	RG-NBS3200-24GT4XS-P-V2	RG-NBS3200-48GT4XS	RG-NBS3200-48GT4XS-P-V2	RG-NBS3200-245FP/8GT4XS
	ESD protection	Contact discharge: 6 kV Air discharge: 8 kV	Contact discharge: 6 kV Air discharge: 8 kV	Contact discharge: 6 kV Air discharge: 8 kV	Contact discharge: 6 kV Air discharge: 8 kV	Contact discharge: 6 kV Air discharge: 8 kV
	Surge protection	Service port: ±6 kV for common mode Power connector: ±6 kV for both common mode and differential mode	Service port: ±6 kV for common mode Power connector: ±6 kV for both common mode and differential mode	Service port: ±6 kV for common mode Power connector: ±6 kV for both common mode and differential mode	Service port: ±6 kV for common mode Power connector: ±6 kV for both common mode and differential mode	Service port: ±6 kV for common mode Power connector: ±6 kV for both common mode and differential mode
	Hot swapping of fan modules	No	No	No	No	No
	Corrosion class	No	No	No	No	No
Certification and Regulatory Compliance	Safety compliance	IEC 62368-1	IEC 62368-1	IEC 62368-1	IEC 62368-1	IEC 62368-1
	EMC	EN 5032:2015+AC:2016	EN 55032:2015+A1:2020	EN 5032:2015+AC:2016	EN 55032:2015+A1:2020	EN 5032:2015+AC:2016
		EN 61000-3-2:2014	EN 61000-3-3:2013+A1:2019+A2:2021	EN 61000-3-2:2014	EN 61000-3-3:2013+A1:2019+A2:2021	EN 61000-3-2:2014
		EN 61000-3-3:2013	EN IEC 61000-3-2:2019+A1:2021	EN 61000-3-3:2013	EN IEC 61000-3-2:2019+A1:2021	EN 61000-3-3:2013
		EN 55035:2017	EN 55035:2017+A11:2020	EN 55035:2017	EN 55035:2017+A11:2020	EN 55035:2017
		ETSI EN 300 386 V2.1.1 (2016-07)	EN 300386 V2.2.1	ETSI EN 300 386 V2.1.1 (2016-07)	EN 300386V2.2.1	ETSI EN 300 386 V2.1.1 (2016-07)
Certification	CE, FCC	CE	CE, FCC	CE	CE, FCC	
Product Information	Warranty	5 years	5 years	5 years	5 years	5 years
Software Specifications						
Network Management	Fan speed and adjustment	Automatic speed adjustment	Intelligent speed adjustment	Hardware-based adjustment	Intelligent speed adjustment	Automatic speed adjustment
	HTTP login	Yes	Yes	Yes	Yes	Yes
	HTTPS login	Yes	Yes	Yes	Yes	Yes

Specifications		RG-NBS3200-24GT4XS	RG-NBS3200-24GT4XS-P-V2	RG-NBS3200-48GT4XS	RG-NBS3200-48GT4XS-P-V2	RG-NBS3200-24SFP/8GT4XS
Management and Monitoring	SON	Yes	Yes	Yes	Yes	Yes
	Camera detection	Yes	Yes	Yes	Yes	Yes
	Syslog	Yes	Yes	Yes	Yes	Yes
	Client auto-discovery	Yes	Yes	Yes	Yes	Yes
	eWeb management	Yes	Yes	Yes	Yes	Yes
	Ruijie Cloud management	Yes	Yes	Yes	Yes	Yes
	Ruijie Reyee App management	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
	PoE service failure	No	Yes	No	Yes	No
	PoE power overload	No	Yes	No	Yes	No
	SNMPv1, v2c, and v3	Yes	Yes	Yes	Yes	Yes
	RLOG	Yes	Yes	Yes	Yes	Yes
	Port mirroring	Yes	Yes	Yes	Yes	Yes
	Mirroring	Yes	Yes	Yes	Yes	Yes
	SSH	No	No	No	No	No
Ethernet Switching	Interface flow control	Yes	Yes	Yes	Yes	Yes
	MAC address filtering	Yes	Yes	Yes	Yes	Yes
	Static MAC address	Yes	Yes	Yes	Yes	Yes

Specifications		RG-NBS3200-24GT4XS	RG-NBS3200-24GT4XS-P-V2	RG-NBS3200-48GT4XS	RG-NBS3200-48GT4XS-P-V2	RG-NBS3200-24SFP/8GT4XS
Basic Configurations	Maximum number of MAC address entries	16000	16000	16000	16000	16000
	Interface-based VLAN	Yes	Yes	Yes	Yes	Yes
	MAC address-based VLAN	No	No	No	No	No
	Voice VLAN	Yes	Yes	Yes	Yes	Yes
	Maximum number of VLANs	4094	4094	4094	4094	4094
	Basic QinQ	No	No	No	No	No
	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
	LLDP	Yes	Yes	Yes	Yes	Yes
	LLDP-MED	Yes	Yes	Yes	Yes	Yes
	Inbound or outbound rate limiting based on interface traffic	Yes	Yes	Yes	Yes	Yes
	IEEE 802.1Q VLAN	Yes	Yes	Yes	Yes	Yes
	Static aggregation	Yes	Yes	Yes	Yes	Yes
	LACP	Yes	Yes	Yes	Yes	Yes
	IP subnet-based VLAN assignment	No	No	No	No	No
Basic Configurations	Online upgrade	Yes	Yes	Yes	Yes	Yes
	PoE watchdog	No	Yes	No	Yes	No

Specifications		RG-NBS3200-24GT4XS	RG-NBS3200-24GT4XS-P-V2	RG-NBS3200-48GT4XS	RG-NBS3200-48GT4XS-P-V2	RG-NBS3200-24SFP/8GT4XS
Reliability	ERPS	Yes	Yes	Yes	Yes	Yes
	Load balancing	No	No	No	No	No
	System dual backup	Yes	Yes	Yes	Yes	Yes
	Uboot partition dual backup	Yes	Yes	Yes	Yes	Yes
Interface	Jumbo frame length (MTU)	9216 bytes (interface configuration mode)	9216 bytes (interface configuration mode)	9216 bytes (interface configuration mode)	9216 bytes (interface configuration mode)	9216 bytes (interface configuration mode)
	EEE	Yes	Yes	Yes	Yes	Yes
	Cable test	Yes	Yes	Yes	Yes	Yes
IP Service	ARP	Yes	Yes	Yes	Yes	Yes
	Maximum number of ARP entries	1000	1000	1000	1000	1000
	IPv4 ping	Yes	Yes	Yes	Yes	Yes
	IPv4 traceroute	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 client	Yes	Yes	Yes	Yes	Yes
	DNSv6 client	Yes	Yes	Yes	Yes	Yes
	DHCP server	No	No	No	No	No
	DHCP relay	Yes	Yes	Yes	Yes	Yes
	DHCP client	Yes	Yes	Yes	Yes	Yes
	IPv4 routing table size (host route)	6000	6000	12000	12000	6000
Security	IP-MAC-port binding	Yes	Yes	Yes	Yes	Yes
	DHCP snooping	Yes	Yes	Yes	Yes	Yes
	Broadcast storm control	Yes	Yes	Yes	Yes	Yes

Specifications		RG-NBS3200-24GT4XS	RG-NBS3200-24GT4XS-P-V2	RG-NBS3200-48GT4XS	RG-NBS3200-48GT4XS-P-V2	RG-NBS3200-245FP/8GT4XS
	Multicast storm control	Yes	Yes	Yes	Yes	Yes
	Unknown unicast storm control	Yes	Yes	Yes	Yes	Yes
	Standard ACL	Yes	Yes	Yes	Yes	Yes
	Extended MAC ACL	Yes	Yes	Yes	Yes	Yes
	Extended Ip ACL	Yes	Yes	Yes	Yes	Yes
	IPv6 ACL	Yes	Yes	Yes	Yes	Yes
	Port isolation	Yes	Yes	Yes	Yes	Yes
	CPU Protection Policy	Yes	Yes	Yes	Yes	Yes
	IP source guard	Yes	Yes	Yes	Yes	Yes
	ARP anti-spoofing	Yes	Yes	Yes	Yes	Yes
	Maximum number of ACEs	Number of ACEs in the inbound direction of an interface: 1900 Number of ACEs in the outbound direction of an interface: 0	Number of ACEs in the inbound direction of an interface: 1900 Number of ACEs in the outbound direction of an interface: 0	Number of ACEs in the inbound direction of an interface: 1900 Number of ACEs in the outbound direction of an interface: 0	Number of ACEs in the inbound direction of an interface: 1900 Number of ACEs in the outbound direction of an interface: 0	Number of ACEs in the inbound direction of an interface: 1900 Number of ACEs in the outbound direction of an interface: 0
Multicast	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
	IGMPv1, v2, and v3	No	No	No	No	No
	IPv4 static route	Yes	Yes	Yes	Yes	Yes

Specifications		RG-NBS3200-24GT4XS	RG-NBS3200-24GT4XS-P-V2	RG-NBS3200-48GT4XS	RG-NBS3200-48GT4XS-P-V2	RG-NBS3200-24SFP/8GT4XS
IP Routing	Maximum number of IPv4 static routes	64	64	64	64	64
	IPv6 static route	Yes	Yes	Yes	Yes	Yes
	Maximum number of IPv6 static routes	64	64	64	64	64
	OSPFv2	No	No	No	No	No
	OSPFv3	No	No	No	No	No
	IPv6 routing table size (network route)	128	128	128	128	128
Authentication	802.1X authentication	Yes	Yes	Yes	Yes	Yes
	Interface-based 802.1X authentication	Yes	Yes	Yes	Yes	Yes
	MAC address-based 802.1X authentication	Yes	Yes	Yes	Yes	Yes
	Guest VLAN	Yes	Yes	Yes	Yes	Yes
	RADIUS	Yes	Yes	Yes	Yes	Yes
Gateway Features	802.1p priority-based traffic classification	Yes	Yes	Yes	Yes	Yes
	DSCP priority-based traffic classification	Yes	Yes	Yes	Yes	Yes
	Egress queues based on 802.1p and DSCP priorities	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
System Perform	Recommended camera limit	200 W H265: 280	200 W H265: 280	200 W H265: 300	200 W H265: 300	200 W H265: 280
		400 W H265: 140	400 W H265: 140	400 W H265: 150	400 W H265: 150	400 W H265: 140

Specifications		RG-NBS3200-24GT4XS	RG-NBS3200-24GT4XS-P-V2	RG-NBS3200-48GT4XS	RG-NBS3200-48GT4XS-P-V2	RG-NBS3200-24SFP/8GT4XS
ance						
Capacity						
Product Information						
Product category	/	Layer 2+	Layer 2+	Layer 2+	Layer 2+	Layer 2+
Package Contents						
Accessories	Rack-mount bracket	2	2	2	2	2
	Screw	8 M4 x 8 mm cross recessed countersunk head screws	6 M4 x 8 mm cross recessed countersunk head screws	8 M4 x 8 mm cross recessed countersunk head screws	6 M4 x 8 mm cross recessed countersunk head screws	8 M4 x 8 mm cross recessed countersunk head screws
	Rubber pad	4	4	4	4	4
Manual	User Manual	1	1	1	1	1
	Warranty Card	1	1	1	1	1

Ruijie | Rcycc

 **R**edefine **y**our **e**asy **n**etwork

Copyright ©2000-2024 Ruijie Networks Co., Ltd. All rights reserved.

No part of this document may be reproduced or transmitted in any form or any means without prior written consent of Ruijie Networks Co., Ltd.

Notice

This content is applicable only to regions outside the China mainland. Ruijie Networks Co., Ltd. reserves the right to interpret this content.

The information contained herein is subject to change without notice. Nothing herein should be construed as constituting an additional warranty. Ruijie Networks Co., Ltd. shall not be liable for technical or editorial errors or omissions contained herein.



Ruijie Networks Co., Ltd.

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