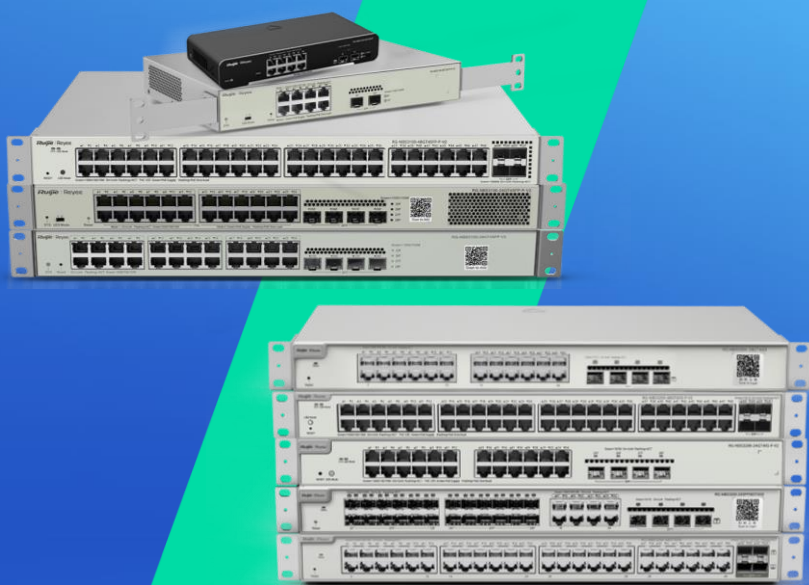


RG-NBS3100/3200 Series

Layer2/Layer2+ Cloud Managed Switch

DATASHEET

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Highlights

- Enterprise-class Quality and Features Ensure 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

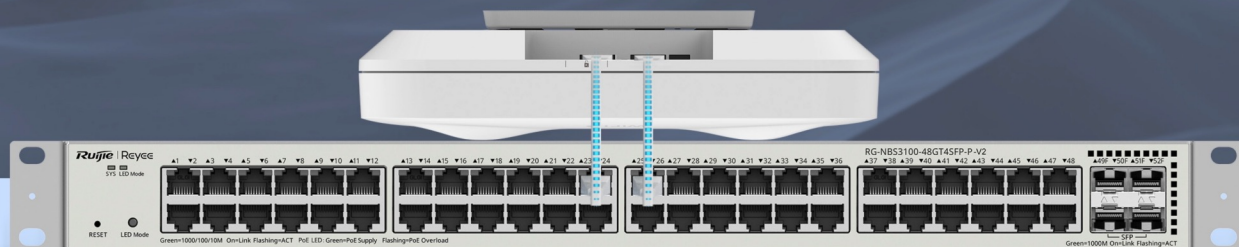
Highlight Features

Enterprise-Class Quality Ensures High Performance

[Link Aggregation](#)

[IGMP Snooping](#)

[VLAN](#)



Enterprise-Class Quality Ensures High Performance

[Link Aggregation](#)

[IGMP Snooping](#)

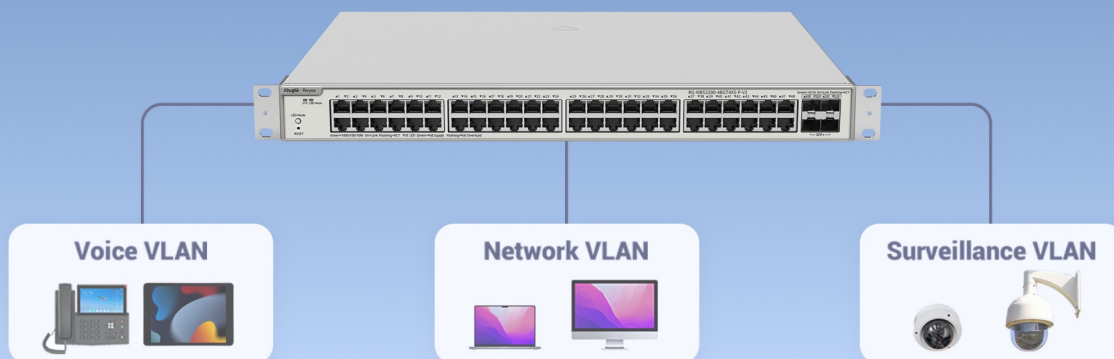
[VLAN](#)



/ Highlight Features

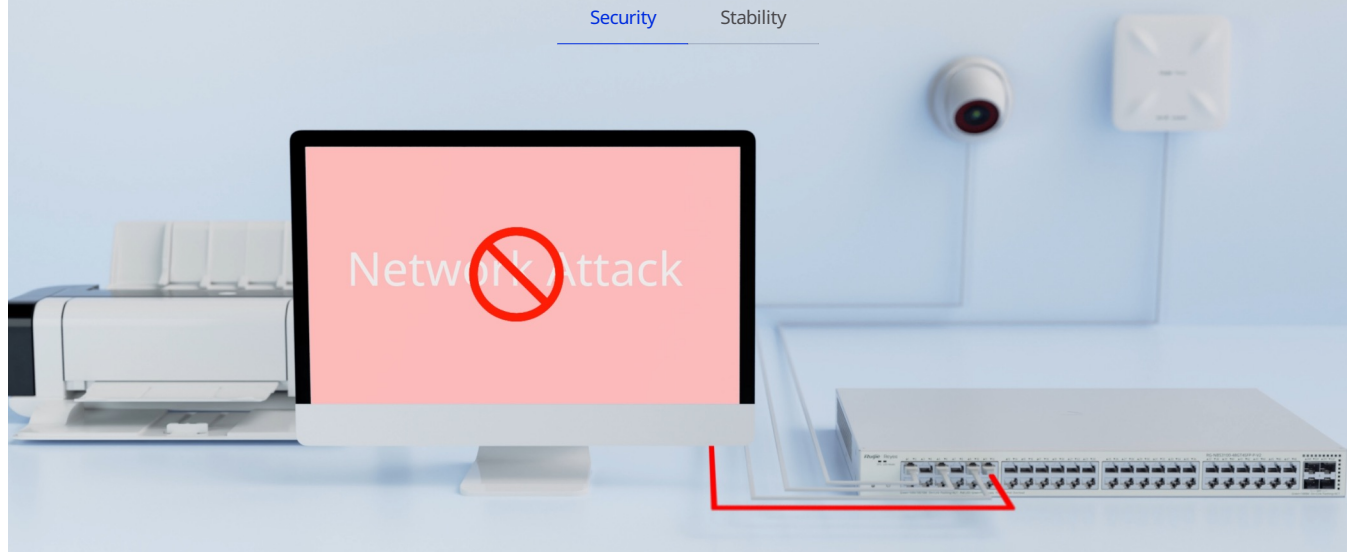
Enterprise-Class Quality Ensures High Performance

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
Product Information						
Product Category	/	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2
Hardware Specifications						
Product Information	Warranty	5 years	5 years	5 years	5 years	5 years
Port Specifications	Total number of RJ45 ports	8	24	8	24	48
	Total number of optical ports	2	4	2	4	4
	Number of 1GE combo ports	No	No	No	No	N/A
	Number of 1GE SFP ports	2	4	2	4	4
	Number of 10GE SFP+ ports	No	No	No	No	No
	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 100/1000/2.5G/5G/10G BASE-T ports	No	No	No	No	No
Interface Specifications	Module slots	No	No	No	No	No
	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
Power Supply and Consumption				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.	
	PoE Out standard	No	No	PoE/PoE+ (IEEE 802.3af/at)	PoE/PoE+ (IEEE 802.3af/at)	PoE/PoE+ (IEEE 802.3af/at)
	Number of PoE Out ports	No	No	8	24	48
	Number of PoE/PoE+ Out ports	No	No	8	24	48
	Number of PoE/PoE+/PoE++ Out ports	No	No	No	No	No
	PoE budget	No	No	125 W	370 W	370 W
	PoE power pins	No	No	1–2 (+), 3–6 (-)	1–2 (+), 3–6 (-)	1–2 (+), 3–6 (-)
	Power input	DC adapter: - 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 - Rated input current: 1.0 A - Output: - Rated output voltage: 12 V DC - Maximum output current: 1.0 A	220 V AC power supply: - Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz - Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz - Maximum input current: 0.6 A	220 V AC power supply: - Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz - Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz - Maximum input current: 2.5 A	220 V AC power supply: - Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz - Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz - Maximum input current: 6 A	220 V AC power supply: - Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz - Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz - Maximum input current: 6 A
	Maximum power consumption	8 W	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)
	Power output	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
	Power supply	DC power adapter	Fixed power supply	Fixed power supply	Fixed power supply	Fixed power supply
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, 1 GHz clock frequency per core
	RAM	256 MB	512 MB	512 MB	512 MB	512 MB
	Flash memory	16 MB	16 MB	16 MB	16 MB	256 MB
	Forwarding rate	15 Mpps	42 Mpps	15 Mpps	42 Mpps	78 Mpps
	Switching capacity	20 Gbps(bit/s)	56 Gbps(bit/s)	20 Gbps(bit/s)	56 Gbps(bit/s)	104 Gbps(bit/s)
Dimensions and Weight	Casing	Metal	Metal	Metal	Metal	Metal
	Product 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)
Environment and Reliability	Hot swapping of fan modules	No	No	No	No	No
	Fan	Fanless design	Fanless design	Fanless design	1 x fixed fan	2 x fixed fans
	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)
	Mounting options	Rack	Rack	Rack	Rack	Rack

Specifications		RG-NBS3100-8GT2SFP	RG-NBS3100-24GT4SFP-V2	RG-NBS3100-8GT2SFP-P-V2	RG-NBS3100-24GT4SFP-P-V2	RG-NBS3100-48GT4SFP-P-V2
	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.
	MTBF	400,000 hours	400,000 hours	400,000 hours	400,000 hours	400,000 hours
	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)	0~50°C0°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: -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.)
	Corrosion class	No	No	No	No	No
	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 common mode and ±2 kV for	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

Specifications		RG-NBS3100-8GT2SFP	RG-NBS3100-24GT4SFP-V2	RG-NBS3100-8GT2SFP-P-V2	RG-NBS3100-24GT4SFP-P-V2	RG-NBS3100-48GT4SFP-P-V2
		differential mode				
Certification and Regulatory Compliance	EMC	EN 55032	EN 55032	EN 55032	EN 55032	EN 55032
		EN 61000-3-2	EN 61000-3-2	EN 61000-3-2	EN 61000-3-2	EN 61000-3-2
		EN 61000-3-3	EN 61000-3-3	EN 61000-3-3	EN 61000-3-3	EN 61000-3-3
		EN 55035	EN 55035	EN 55035	EN 55035	EN 55035
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
Software Specifications						
Authentication	RADIUS	Yes	Yes	Yes	Yes	Yes
	802.1X authentication	Yes	Yes	Yes	Yes	Yes
	Port-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
Basic Configurations	PoE watchdog	No	No	Yes	Yes	Yes
	Online upgrade	Yes	Yes	Yes	Yes	Yes
Ethernet Switching	Maximum number of VLANs	4094	4094	4094	4094	4094
	Maximum number of MAC address entries	8000	8000	8000	8000	16000
	Interface flow control	Yes	Yes	Yes	Yes	Yes
	MAC address-based VLAN	No	No	No	No	No
	IP subnet-based VLAN assignment	No	No	No	No	No
	IEEE 802.1Q VLAN	Yes	Yes	Yes	Yes	Yes
	Basic QinQ	No	No	No	No	No
	VLAN configuration supported on LAN ports	Yes	Yes	Yes	Yes	Yes
	Voice VLAN	Yes	Yes	Yes	Yes	Yes
	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

Specifications		RG-NBS3100-8GT2SFP	RG-NBS3100-24GT4SFP-V2	RG-NBS3100-8GT2SFP-P-V2	RG-NBS3100-24GT4SFP-P-V2	RG-NBS3100-48GT4SFP-P-V2
	LLDP	Yes	Yes	Yes	Yes	Yes
	LLDP-MED	Yes	Yes	Yes	Yes	Yes
	Static MAC address	Yes	Yes	Yes	Yes	Yes
	MAC address filtering	Yes	Yes	Yes	Yes	Yes
	Static aggregation	Yes	Yes	Yes	Yes	Yes
	LACP	Yes	Yes	Yes	Yes	Yes
	Inbound or outbound rate limiting based on interface traffic	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
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 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
IP Service	Maximum number of ARP entries	1000	1000	1000	1000	1000
	ARP	Yes	Yes	Yes	Yes	Yes
	IPv4 ping	Yes	Yes	Yes	Yes	Yes
	IPv4 traceroute	Yes	Yes	Yes	Yes	Yes
	ICMPv6	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
	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 relay	No	No	No	No	No
	DHCP server	No	No	No	No	No
	DHCP client	Yes	Yes	Yes	Yes	Yes
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	No	No	No	No	No
	IGMP filtering	Yes	Yes	Yes	Yes	Yes
	IGMPv1, v2, and v3	No	No	No	No	No
Network Management and Monitoring	Fan speed adjustment	N/A	N/A	N/A	Automatic speed adjustment	Intelligent speed adjustment
	Port mirroring	Yes	Yes	Yes	Yes	Yes
	Mirroring	Yes	Yes	Yes	Yes	Yes
	HTTP login	Yes	Yes	Yes	Yes	Yes
	HTTPS login	Yes	Yes	Yes	Yes	Yes
	RLOG	Yes	Yes	Yes	Yes	Yes
	SON	Yes	Yes	Yes	Yes	Yes
	Syslog	Yes	Yes	Yes	Yes	Yes
	Client auto-discovery	Yes	Yes	Yes	Yes	Yes
	PoE service failure	No	No	Yes	Yes	Yes
	PoE power overload	No	No	Yes	Yes	Yes
	SSH	No	No	No	No	No
	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	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
	eWeb management	Yes	Yes	Yes	Yes	Yes
	Ruijie Cloud management	Yes	Yes	Yes	Yes	Yes
	Ruijie Reyee App management	Yes	Yes	Yes	Yes	Yes
	SNMPv1, v2c, and v3	Yes	Yes	Yes	Yes	Yes
Reliability	System dual backup	No	No	No	No	Yes
	Enabling dual backup for the partition Uboot (based on a single flash memory)	No	No	No	No	Yes
	Load balancing	No	No	No	No	No
	ERPS	Yes	Yes	Yes	Yes	Yes
Security	Maximum number of ACEs	Number of ACEs in the inbound direction of an interface: 1200	Number of ACEs in the inbound direction of an interface: 1200	Number of ACEs in the inbound direction of an interface: 1200	Number of ACEs in the inbound direction of an interface: 1200	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 outbound direction of an interface: 0	Number of ACEs in the outbound direction of an interface: 0	Number of ACEs in the outbound direction of an interface: 0	Number of ACEs in the outbound direction of an interface: 0
	Port isolation	Yes	Yes	Yes	Yes	Yes
	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
	DHCP snooping	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
	IP-MAC-port binding	Yes	Yes	Yes	Yes	Yes
	ARP anti-spoofing	Yes	Yes	Yes	Yes	Yes
	IP source guard	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
	CPU Protection Policy	Yes	Yes	Yes	Yes	Yes
System Performance	Recommended camera limit	200 W H265: 80	200W H265: 120	200 W H265: 80	200 W H265: 120	200 W H265: 200
		400 W H265: 40	400W H265: 60	400 W H265: 40	400 W H265: 60	400 W H265: 100
Package Contents						
Device	Device	1	1	1	1	1
Accessories	Rubber pad	4	4	4	4	4
	Power cord retention clip	No	1	1	1	1
	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
	Grounding cable	1 x 1 m (3.28 ft.)	1 x 1 m (3.28 ft.)	1 x 1 m (3.28 ft.)	1 x 1 m (3.28 ft.)	1 x 1 m (3.28 ft.)
	Power cord	No	1 x 1.5 m (4.92 ft.)	1 x 1.5 m (4.92 ft.)	1 x 1.5 m (4.92 ft.)	1 x 1.5 m (4.92 ft.)
	Rack-mount bracket	2	2	2	2	2
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
Product Information						
Product Category	/	Layer 2+	Layer 2+	Layer 2+	Layer 2+	Layer 2+
Hardware Specifications						
Product Information	Warranty	5 years	5 years	5 years	5 years	5 years
Port Specifications	Total number of RJ45 ports	24	24	48	48	8 (including eight combo ports)
	Total number of optical ports	4	4	4	4	28 (including eight combo ports)
	Number of 1GE combo ports	No	No	No	No	8
	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 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
	Number of 100/1000/2.5G/5G/10G BASE-T ports	No	No	No	No	No
Interface Specifications	Module slots	No	No	No	No	No
	Reset button	1	1	1	1	1
	DIP switch	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
Power Supply and Consumption	PoE Out standard	No	PoE/PoE+ (IEEE 802.3af/at)	No	PoE/PoE+ (IEEE 802.3af/at)	No
	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
	PoE budget	No	370 W	No	370 W	No
	PoE power pins	No	1-2 (+), 3-6 (-)	No	1-2 (+), 3-6 (-)	No
	Power input	220 V AC power supply: • Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz • Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz • Maximum input current: 1.5 A	220 V AC power supply: • Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz • Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz • Maximum input current: 6 A	220 V AC power supply: • Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz • Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz • Maximum input current: 2 A	220 V AC power supply: • Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz • Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz • Maximum input current: 6 A	220 V AC power supply: • Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz • Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz • Maximum input current: 2 A
	Maximum power consumption	28.028 W	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
	Power output	No	No	No	No	No
	Power supply	Fixed power supply	Fixed power supply	Fixed power supply	Fixed power supply	Fixed power supply
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
	RAM	512 MB	512 MB	1 GB	512 MB	512 MB
	Flash memory	256 MB	256 MB	256 MB	256 MB	256 MB
	Forwarding rate	96 Mpps	96 Mpps	132 Mpps	132 Mpps	96 Mpps
	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
Dimensions and Weight	Casing	Metal	Metal	Metal	Metal	Metal
	Product 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)
	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)
Environment and Reliability	Hot swapping of fan modules	No	No	No	No	No
	Fan	1 x fixed fan	2 x fixed fans	2 x fixed fans	2 x fixed fans	2 x fixed fans
	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
	Mounting options	Rack	Rack	Rack	Rack	Rack
	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.
	MTBF	400,000 hours	400,000 hours	400,000 hours	400,000 hours	400,000 hours
	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)	0~50°C0°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)

Specifications		RG-NBS3200-24GT4XS	RG-NBS3200-24GT4XS-P-V2	RG-NBS3200-48GT4XS	RG-NBS3200-48GT4XS-P-V2	RG-NBS3200-24SFP/8GT4XS
	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.)
	Corrosion class	No	No	No	No	No
	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
Certification and Regulatory Compliance	EMC	EN 55032 EN 61000-3-2 EN 61000-3-3 EN 55035 EN 300 386	EN 55032 EN 61000-3-2 EN 61000-3-3 EN 55035 EN 300 386	EN 55032 EN 61000-3-2 EN 61000-3-3 EN 55035 EN 300 386	EN 55032 EN 61000-3-2 EN 61000-3-3 EN 55035 EN 300 386	EN 55032 EN 61000-3-2 EN 61000-3-3 EN 55035 EN 300 386
	Safety compliance	IEC 62368-1	IEC 62368-1	IEC 62368-1	IEC 62368-1	IEC 62368-1
	Certification	CE, FCC	CE	CE, FCC	CE	CE, FCC
Software Specifications						
Authentication	RADIUS	Yes	Yes	Yes	Yes	Yes
	802.1X authentication	Yes	Yes	Yes	Yes	Yes
	Port-based 802.1X authentication	Yes	Yes	Yes	Yes	Yes
	MAC address-based 802.1X authentication	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
	Guest VLAN	Yes	Yes	Yes	Yes	Yes
Basic Configurations	PoE watchdog	No	Yes	No	Yes	No
	Online upgrade	Yes	Yes	Yes	Yes	Yes
Ethernet Switching	Maximum number of VLANs	4094	4094	4094	4094	4094
	Maximum number of MAC address entries	16000	16000	16000	16000	16000
	Interface flow control	Yes	Yes	Yes	Yes	Yes
	MAC address-based VLAN	No	No	No	No	No
	IP subnet-based VLAN assignment	No	No	No	No	No
	IEEE 802.1Q VLAN	Yes	Yes	Yes	Yes	Yes
	Basic QinQ	No	No	No	No	No
	VLAN configuration supported on LAN ports	Yes	Yes	Yes	Yes	Yes
	Voice VLAN	Yes	Yes	Yes	Yes	Yes
	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
	Static MAC address	Yes	Yes	Yes	Yes	Yes
	MAC address filtering	Yes	Yes	Yes	Yes	Yes
	Static aggregation	Yes	Yes	Yes	Yes	Yes
	LACP	Yes	Yes	Yes	Yes	Yes
	Inbound or outbound rate limiting based on interface traffic	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

Specifications		RG-NBS3200- 24GT4XS	RG-NBS3200- 24GT4XS-P-V2	RG-NBS3200- 48GT4XS	RG-NBS3200- 48GT4XS-P-V2	RG-NBS3200- 24SFP/8GT4XS
	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	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 Routing	Maximum number of IPv4 static routes	64	64	64	64	64
	IPv6 routing table size (network route)	128	128	500	500	128
	Maximum number of IPv6 static routes	64	64	64	64	64
	IPv4 static route	Yes	Yes	Yes	Yes	Yes
	IPv6 static route	Yes	Yes	Yes	Yes	Yes
	OSPFv2	No	No	No	No	No
	OSPFv3	No	No	No	No	No
IP Service	Maximum number of ARP entries	1000	1000	1000	1000	1000
	IPv4 routing table size (host route)	6000	6000	12000	12000	6000
	ARP	Yes	Yes	Yes	Yes	Yes
	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 relay	Yes	Yes	Yes	Yes	Yes
	DHCP server	No	No	No	No	No
	DHCP client	Yes	Yes	Yes	Yes	Yes
	IGMPv1 snooping	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
Multicast	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
Network Management and Monitoring	Fan speed adjustment	N/A	Intelligent speed adjustment	N/A	Intelligent speed adjustment	N/A
	Port mirroring	Yes	Yes	Yes	Yes	Yes
	Mirroring	Yes	Yes	Yes	Yes	Yes
	HTTP login	Yes	Yes	Yes	Yes	Yes
	HTTPS login	Yes	Yes	Yes	Yes	Yes
	RLOG	Yes	Yes	Yes	Yes	Yes
	SON	Yes	Yes	Yes	Yes	Yes
	Syslog	Yes	Yes	Yes	Yes	Yes
	Client auto-discovery	Yes	Yes	Yes	Yes	Yes
	PoE service failure	No	Yes	No	Yes	No
	PoE power overload	No	Yes	No	Yes	No
	SSH	No	No	No	No	No
	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
	eWeb management	Yes	Yes	Yes	Yes	Yes
	Ruijie Cloud management	Yes	Yes	Yes	Yes	Yes
	Ruijie Reyee App management	Yes	Yes	Yes	Yes	Yes
	SNMPv1, v2c, and v3	Yes	Yes	Yes	Yes	Yes
Reliability	System dual backup	Yes	Yes	Yes	Yes	Yes
	Enabling dual backup for the partition Uboot	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
	(based on a single flash memory)					
	Load balancing	No	No	No	No	No
	ERPS	Yes	Yes	Yes	Yes	Yes
Security	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
	Port isolation	Yes	Yes	Yes	Yes	Yes
	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
	DHCP snooping	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
	IP-MAC-port binding	Yes	Yes	Yes	Yes	Yes
	ARP anti-spoofing	Yes	Yes	Yes	Yes	Yes
	IP source guard	Yes	Yes	Yes	Yes	Yes
	CPU Protection Policy	Yes	Yes	Yes	Yes	Yes
System Performance	Recommended camera limit	200 W H265: 280 400 W H265: 140	200 W H265: 280 400 W H265: 140	200 W H265: 300 400 W H265: 150	200 W H265: 300 400 W H265: 150	200 W H265: 280 400 W H265: 140
Package Contents						
Device	Device	1	1	1	1	1

Specifications		RG-NBS3200- 24GT4XS	RG-NBS3200- 24GT4XS-P-V2	RG-NBS3200- 48GT4XS	RG-NBS3200- 48GT4XS-P-V2	RG-NBS3200- 24SFP/8GT4XS
Accessories	Rubber pad	4	4	4	4	4
	Power cord retention clip	1	1	1	1	1
	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
	Grounding cable	1 x 1 m (3.28 ft.)	1 x 1 m (3.28 ft.)	1 x 1 m (3.28 ft.)	1 x 1 m (3.28 ft.)	1 x 1 m (3.28 ft.)
	Power cord	1 x 1.5 m (4.92 ft.)	1 x 1.5 m (4.92 ft.)	1 x 1.5 m (4.92 ft.)	1 x 1.5 m (4.92 ft.)	1 x 1.5 m (4.92 ft.)
	Rack-mount bracket	2	2	2	2	2
Manual	User Manual	1	1	1	1	1
	Warranty Card	1	1	1	1	1

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