

RG-NBS31 Series Layer 2 Cloud Managed Switches

DATASHEET

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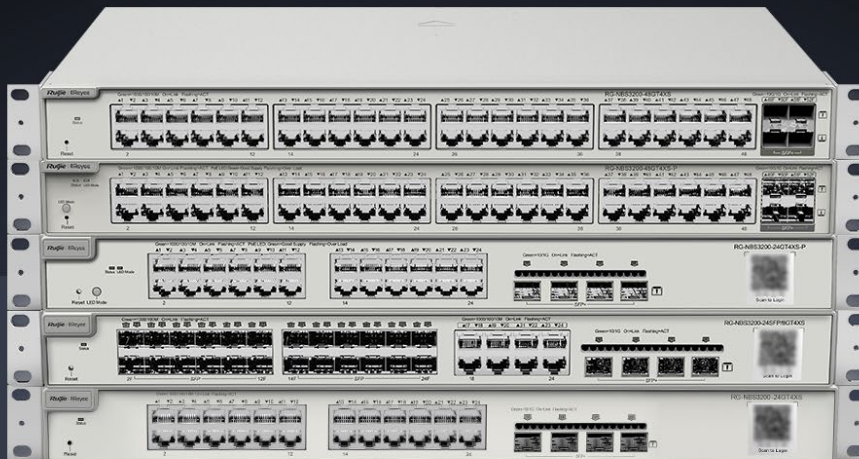


Highlights

- 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



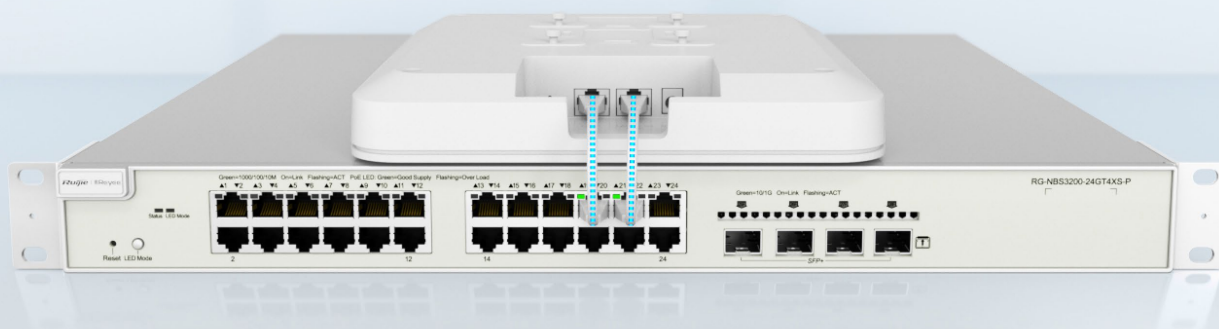
Highlight Features

Enterprise-class Quality Ensures High Performance

Link Aggregation

IGMP Snooping

VLAN



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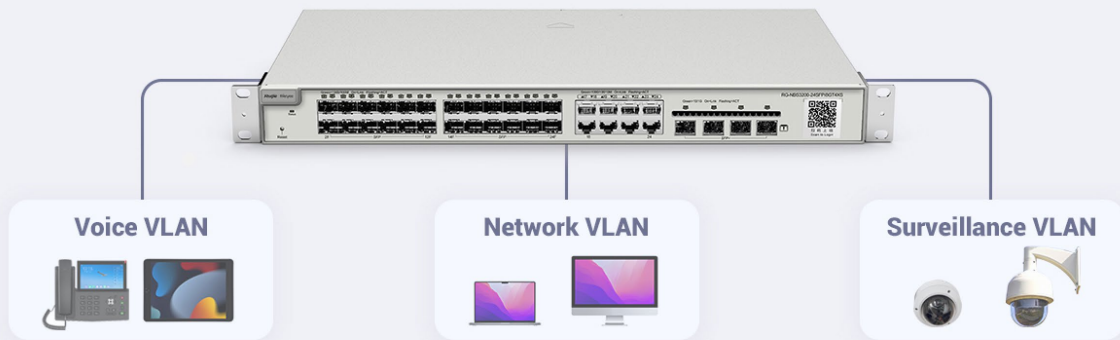
/ Highlight Features

Enterprise-class Quality Ensures High Performance

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IGMP Snooping

VLAN



Multiple Security Policies Protect Your Network

Security

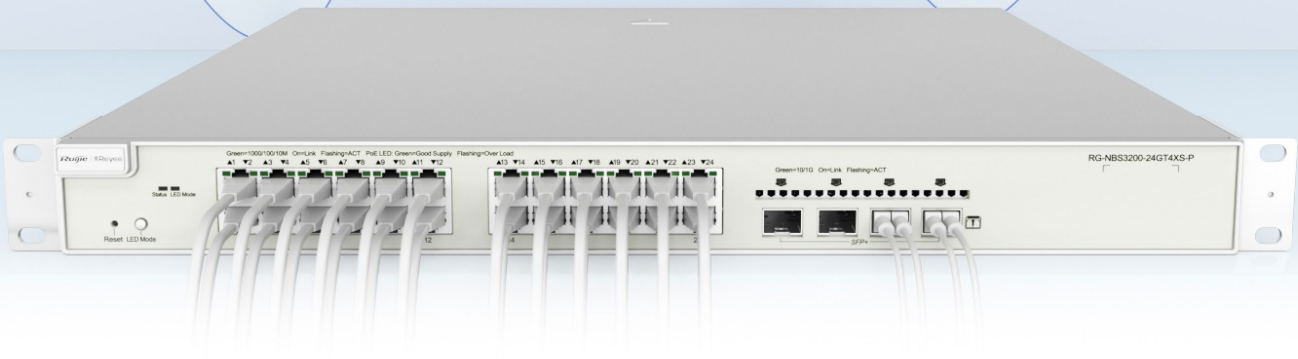
Stability



Highlight Features

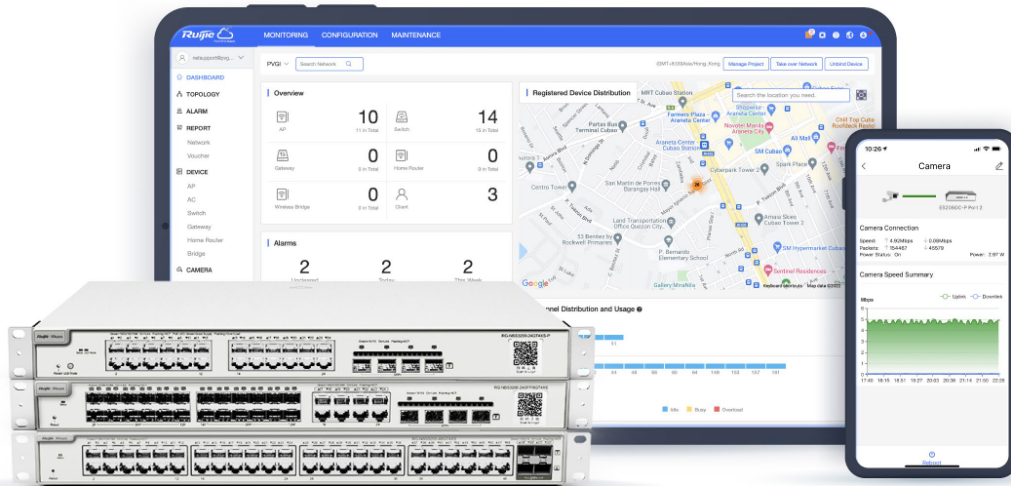
Multiple Security Policies Protect Your Network

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-NBS3100-24GT4SFP	RG-NBS3100-8GT2SFP-P	RG-NBS3100-24GT4SFP-P
Basic			
Recommended Camera Limits	200W H265:120 400W H265:60	200W H265:80 400W H265:40	200W H265:120 400W H265:60
Total Number of RJ45 Ports	24	8	24
Total Number of Optical Ports	4	2	4
Number of 1 Gbps Optical Ports (SFP)	4	2	4
Number of 10/100/1000BASE-T Ports	24	8	24
Number of PoE/PoE+ Ports	N/A	8	24
Max. PoE Power Budget	N/A	125W	370W
PoE Power Pins	N/A	1 2+ 3 6-	1 2+ 3 6-
Layer	L2	L2	L2
Switching Capacity	56Gbps	20Gbps	56Gbps
Forwarding Rate	42Mpps	15Mpps	42Mpps
Buffer Size	4.1 Mbits	4.1 Mbits	4.1 Mbits
ARP Table Size	1000	1000	1000
Flash Memory	16MB	16MB	16MB
SDRAM	256MB	256MB	256MB
MAC Address Table Size	8000	8000	8000
Max. Number of VLANs	4094	4094	4094
Dimensions (W x D x H)	440mm x 165mm x 44mm	300mm x 220mm x 43.6mm	440mm x 293mm x 44mm
Net Weight	2.4 kg	2 kg	4.5 kg
Mean Time Between Failure (MTBF)	400000H	400000H	400000H
Safety Compliance	IEC 62368-1	IEC 62368-1	IEC 62368-1
Warranty	5	5	5
Layer2 features			
Jumbo Frame Length (MTU)	9216 Bytes(Global MTU)	9216 Bytes(Global MTU)	9216 Bytes(Global MTU)
Flow Control	Yes	Yes	Yes
Port Isolation / Protected Port	Yes	Yes	Yes

Specifications	RG-NBS3100-24GT4SFP	RG-NBS3100-8GT2SFP-P	RG-NBS3100-24GT4SFP-P
STP (IEEE 802.1D)	Yes	Yes	Yes
RSTP (IEEE 802.1w)	Yes	Yes	Yes
PortFast	Yes	Yes	Yes
BPDU Guard	Yes	Yes	Yes
Auto Errdisable Recovery	Yes	Yes	Yes
Link Aggregation	Yes	Yes	Yes
Max. Number of LAGs	8	8	8
Max. Members per LAG	8	8	8
Unknown Unicast Storm Control	Yes	Yes	Yes
Broadcast Storm Control	Yes	Yes	Yes
Multicast Storm Control	Yes	Yes	Yes
SPAN	Yes	Yes	Yes
VLAN Range	1-4094	1-4094	1-4094
Port-based VLAN	Yes	Yes	Yes
Voice VLAN	Yes	Yes	Yes
RLDP	Yes	Yes	Yes
LLDP	Yes	Yes	Yes
LLDP-MED	Yes	Yes	Yes
Cable Test	Yes	Yes	Yes
IGMP Snooping v1	Yes	Yes	Yes
IGMP Snooping v2	Yes	Yes	Yes
IGMP Snooping v3(Basic)	Yes	Yes	Yes
IPv4 Ping	Yes	Yes	Yes
IPv6 Ping	Yes	Yes	Yes
Traceroute	Yes	Yes	Yes
IP Standard ACL	Yes	Yes	Yes
MAC Extended ACL	Yes	Yes	Yes
IP Extended ACL	Yes	Yes	Yes
Port-Level Rate Limiting (Ingress/Egress)	Yes	Yes	Yes
DNS Client	Yes	Yes	Yes

Specifications	RG-NBS3100-24GT4SFP	RG-NBS3100-8GT2SFP-P	RG-NBS3100-24GT4SFP-P
SNMP v1	Yes	Yes	Yes
SNMP v2c	Yes	Yes	Yes
SNMP v3	Yes	Yes	Yes
Web Management	Yes	Yes	Yes
HTTP	Yes	Yes	Yes
HTTPS	Yes	Yes	Yes
Ruijie Cloud Management	Yes	Yes	Yes
Ruijie Reyee App Management	Yes	Yes	Yes
IP-based Self-Organizing Network (SON)	Yes	Yes	Yes
Camera Detection	Yes	Yes	Yes
Loop Prevention	Yes	Yes	Yes
Loop Notification	Yes	Yes	Yes
PoE Power Usage Alarm	No	Yes	Yes
IP Source Guard	Yes	Yes	Yes
Anti-ARP Spoofing	Yes	Yes	Yes
DHCP Snooping	Yes	Yes	Yes
DHCP Client	Yes	Yes	Yes
IEEE 802.1X Authentication	Yes	Yes	Yes
PoE Watchdog	No	Yes	Yes
Number of ACEs	In-1200 Out-0	In-1200 Out-0	In-1200 Out-0
G.8032 (ERPS)	Yes	Yes	Yes
RADIUS	Yes	Yes	Yes
CPU Protection Policy (CPP)	Yes	Yes	Yes
MQTT	Yes	Yes	Yes
QoS	Yes	Yes	Yes
SON Priority	2560	2560	2560
Web Authentication	Yes	Yes	Yes
Hardware Specifications			
Reset Button	Yes	Yes	Yes
DIP Switch	N/A	LED MODE	LED MODE

Specifications	RG-NBS3100-24GT4SFP	RG-NBS3100-8GT2SFP-P	RG-NBS3100-24GT4SFP-P
Cable Hot-Swappable	Yes	Yes	Yes
Power Supply	Rated voltage range: 100-240VAC Maximum voltage range: 90-264VAC Frequency: 50/60Hz Rated current: 0.6A	Rated voltage range: 100-240V~ Maximum voltage range: 90-264V~ Frequency: 50/60Hz Rated current: 2A	Rated voltage range: 100-240VAC Maximum voltage range: 90-264VAC Frequency: 50/60Hz Rated current: 6A
Power Consumption	≤21W	No PoE load: ≤11W; Full PoE load: ≤145W	No PoE load: ≤21W; Full PoE load: ≤443W
EEE	Yes	Yes	Yes
Port Surge Protection	Common Mode 6KV	Common Mode 6KV	Common Mode 6KV
Power Supply Surge Protection	Common Mode 6KV Differential mode 6KV	Common Mode 6KV Differential mode 6KV	Common Mode 6KV Differential mode 6KV
Number of Fans	Fanless	Fanless	2
Airflow	N/A	N/A	Left to right
Fan Speed Control	N/A	N/A	Hardware-based adjustment
Acoustic Noise Level	Fanless	Fanless	<45dB (when the device works normally)
Operating Temperature	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
Operating Humidity	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)
Electrostatic Discharge (ESD) Protection	Air Discharge: 8KV Contact Discharge: 6KV	Air Discharge: 8KV Contact Discharge: 6KV	Air Discharge: 8KV Contact Discharge: 6KV
Casing	Metal	Metal	Metal
Mounting	Rack installation	Rack installation	Rack installation
LEDs	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Green) Per SFP Interface: LINK/ACT(Green)	System: SYS(Green) Per RJ45 PoE+ Ports: PoE-in-Use(Green) LINK/ACT(Green) Per SFP Interface: LINK/ACT(Green)	System: SYS(Green) Per RJ45 PoE+ Ports: PoE-in-Use(Green) LINK/ACT(Green) Per SFP Interface: LINK/ACT(Green)
Operating Altitude (m)	-500~5000M	-500~5000M	-500~5000M
Certification	CE;FCC	CE;FCC	CE;FCC
EMC	EN 55032:2015+AC:2016	EN 55032:2015+AC:2016	EN 55032:2015+AC:2016

Specifications	RG-NBS3100-24GT4SFP	RG-NBS3100-8GT2SFP-P	RG-NBS3100-24GT4SFP-P
	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 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)
Package Contents			
Mounting Brackets	2	2	2
Screws	M4 Screw*6	M3 Screw*6	M4 Screw*6
User Manual	1	1	1
Rubber Feet	4	4	4
Power Supply Options	Single fixed power supply	Single fixed power supply	Single fixed power supply
Warranty Card	1	1	1
Gross Weight	3.07kg(packages included)	2.8kg(packages included)	5.51kg(packages included)
Package Dimensions (W x D x H)	533 mm x 258 mm x 102 mm	495 mm x 395 mm x 275 mm	573 mm x 401 mm x 145 mm

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

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