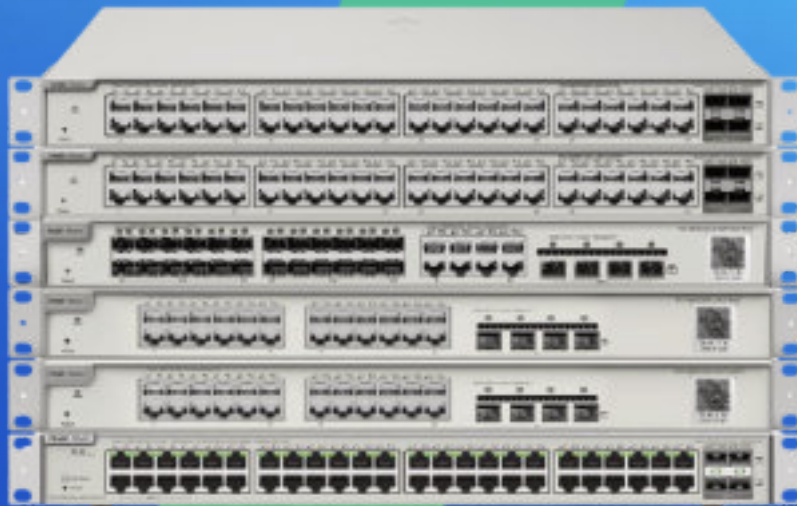


RG-NBS51/52 series Layer 3 Cloud Managed Switches

DATASHEET

[Explore More](#) 



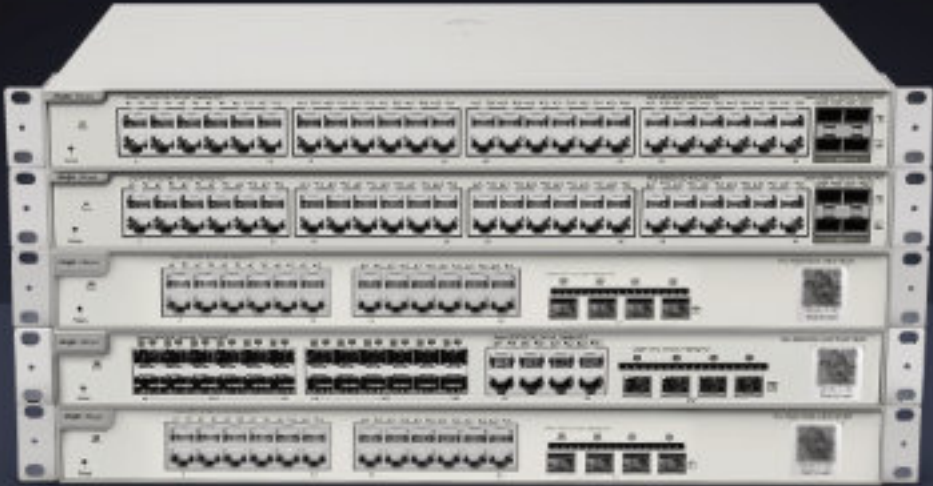
Highlights

- *Enterprise-class quality ensures High Performance*
- *Dynamic routing allows traffic to be routed at Layer 3*
- *Multiple security policies protect your network*
- *Lifetime management on Ruijie Cloud at anytime anywhere*

/ Highlight Features

RG-NBS5000 Series Switch

High performance Layer 3 switch for core/aggregation



Dynamic Routing



6kV Surge Protection



5 Years Warranty

Enterprise-class Quality Ensures High Performance

[Link Aggregation](#)

[IGMP Snooping](#)

[VLAN](#)



Highlight Features

Enterprise-class Quality Ensures High Performance

Link Aggregation

IGMP Snooping

VLAN

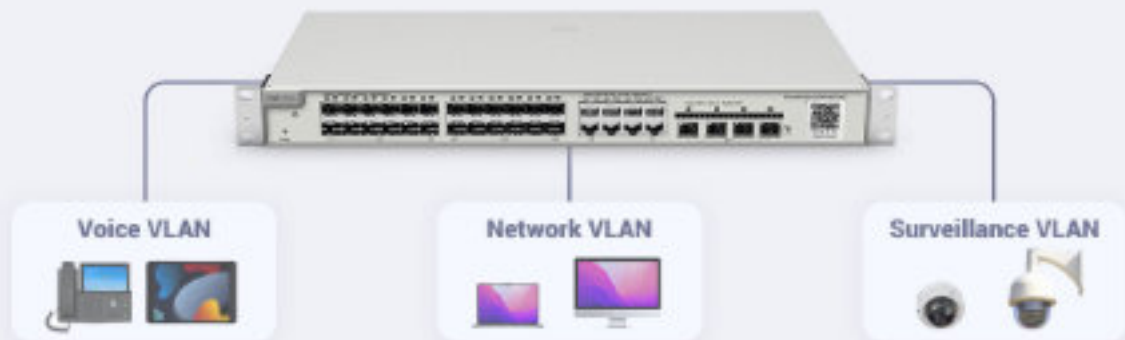


Enterprise-class Quality Ensures High Performance

Link Aggregation

IGMP Snooping

VLAN



Highlight Features

Multiple Security Policies Protect Your Network

Security

Stability



Multiple Security Policies Protect Your Network

Security

Stability



Highlight Features

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-NBS5100-24GT4SFP	RG-NBS5100-48GT4SFP	RG-NBS5100-24GT4SFP-P	RG-NBS5200-24GT4XS	RG-NBS5200-48GT4XS	RG-NBS5200-24SFP/8GT4XS	RG-NBS5200-48GT4XS-UP	RG-NBS5200-24GT4XS-P
Basic								
Total Number of Electrical Ports	24	48	24	24	48	8	48	24
Total Number of Optical Ports	4	4	4	4	4	28	4	4
Number of Combo Ports	N/A	N/A	N/A	N/A	N/A	8	N/A	N/A
Number of 1 Gbps Optical Ports (SFP)	4	4	4	N/A	N/A	24	N/A	N/A
Number of 10 Gbps Optical Ports (SFP+)	N/A	N/A	N/A	4	4	4	4	4
Number of 10/100/1000Base-T Ports	24	48	24	24	48	8	48	24
Number of PoE/PoE+ Ports	N/A	N/A	24	N/A	N/A	N/A	48	24
Number of PoE/PoE+/PoE++ Ports	N/A	N/A	N/A	N/A	N/A	N/A	8	N/A
Max. PoE Power Budget	N/A	N/A	370W	N/A	N/A	N/A	740W	370W
PoE Power Pins	N/A	N/A	1 2+ 3 6-	N/A	N/A	N/A	1-8port (1 2- 3 6+ 4 5+ 7 8-) 9-48port (1 2+ 3 6-)	1 2+ 3 6-

Specifications	RG-NBS5100-24GT4SFP	RG-NBS5100-48GT4SFP	RG-NBS5100-24GT4SFP-P	RG-NBS5200-24GT4XS	RG-NBS5200-48GT4XS	RG-NBS5200-24SFP/8GT4XS	RG-NBS5200-48GT4XS-UP	RG-NBS5200-24GT4XS-P
Layer	L3	L3	L3	L3	L3	L3	L3	L3
Switching Capacity	56Gbps	104Gbps	56Gbps	128Gbps	216Gbps	128Gbps	176Gbps	128Gbps
Forwarding Rate	42Mpps	78Mpps	42Mpps	96Mpps	132Mpps	96Mpps	132Mpps	96Mpps
Buffer Size	12 Mbits	16 Mbits	12 Mbits	12 Mbits	16 Mbits	12 Mbits	16 Mbits	12 Mbits
ARP Table Size	2000	2000	2000	2000	2000	2000	2000	2000
Flash Memory	256MB	256MB	256MB	256MB	256MB	256MB	256MB	256MB
SDRAM	512MB	1GB	512MB	512MB	1GB	512MB	512MB	512MB
MAC Address Table Size	16000	16000	16000	16000	16000	16000	16000	16000
Max. Number of VLANs	4094	4094	4094	4094	4094	4094	4094	4094
Dimensions (W x D x H)	440mm x 207.5mm x 43.6mm	440mm x 267.5mm x 43.6mm	440mm x 357.6mm x 43.6mm	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
Net Weight	2.9 kg	3.6 kg	4.75 kg	2.9 kg	3.6 kg	3.35 kg	5.64 kg	4.75 kg
Mean Time Between Failure (MTBF)	400000H	400000H	400000H	400000H	400000H	400000H	400000H	400000H
Safety Compliance	IEC 62368-1	IEC 62368-1	IEC 62368-1	IEC 62368-1	IEC 62368-1	IEC 62368-1	IEC 62368-1	IEC 62368-1
Warranty	5	5	5	5	5	5	5	5
Layer2 features								
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)	9216 Bytes(Per-port MTU)	9216 Bytes(Per-port MTU)	9216 Bytes(Per-port MTU)
Flow Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

[illegible]

Specifications	RG- NBS5100- 24GT4SFP	RG- NBS5100- 48GT4SFP	RG- NBS5100- 24GT4SFP-P	RG- NBS5200- 24GT4XS	RG- NBS5200- 48GT4XS	RG- NBS5200- 24SFP/8GT4 XS	RG- NBS5200- 48GT4XS-UP	RG- NBS5200- 24GT4XS-P
Port-based VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAC-based VLAN	No	No	No	No	No	No	No	No
IP-based VLAN	No	No	No	No	No	No	No	No
Voice VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RLDP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LLDP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LLDP-MED	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LLDP-PoE	No	No	No	No	No	No	No	No
Cable Test	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP Snooping v1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP Snooping v2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP Snooping v3(Basic)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max. Number of SVIs	32	32	32	32	32	32	32	32
IPv4 Ping	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IPv6 Ping	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Traceroute	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP Standard ACL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MAC Extended ACL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP Extended ACL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Specifications	RG-NBS5100-24GT4SFP	RG-NBS5100-48GT4SFP	RG-NBS5100-24GT4SFP-P	RG-NBS5200-24GT4XS	RG-NBS5200-48GT4XS	RG-NBS5200-24SFP/8GT4XS	RG-NBS5200-48GT4XS-UP	RG-NBS5200-24GT4XS-P
Port-Level Rate Limiting (Ingress/Egress)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DNS Client	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SNMP v1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SNMP v2c	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SNMP v3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Web Management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HTTP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HTTPS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ruijie Cloud Management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ruijie Reyee App Management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IP-based Self-Organizing Network (SON)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Camera Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Loop Prevention	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Loop Notification	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PoE Power Usage Alarm	No	No	No	No	No	No	Yes	Yes
IP Source Guard	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Specifications	RG-NBS5100-24GT4SFP	RG-NBS5100-48GT4SFP	RG-NBS5100-24GT4SFP-P	RG-NBS5200-24GT4XS	RG-NBS5200-48GT4XS	RG-NBS5200-24SFP/8GT4XS	RG-NBS5200-48GT4XS-UP	RG-NBS5200-24GT4XS-P
Web Authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Layer 3 features								
Static Routing	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DHCP Server	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RIP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RIPng(RIP Next Generation)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSPFv2(Open Shortest Path First Version 2)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSPFv3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Virtual Cluster Switching (VCS)	No	No	No	Yes	Yes	Yes	Yes	Yes
Hardware Specifications								
Reset Button	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DIP Switch	N/A	N/A	LED MODE	N/A	N/A	N/A	LED MODE	LED MODE
Cable Hot-Swappable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Supply	Rated voltage range: 100-240VAC Maximum voltage range: 90-264VAC Frequency: 50/60Hz	Rated voltage range: 100-240VAC Maximum voltage range: 90-264VAC Frequency: 50/60Hz	Rated voltage range: 100-240V~ Maximum voltage range: 90-264V~ Frequency: 50/60Hz	Rated voltage range: 100-240VAC Maximum voltage range: 90-264VAC Frequency: 50/60Hz Rated	Rated voltage range: 100-240VAC Maximum voltage range: 90-264VAC Frequency: 50/60Hz	Rated voltage range: 100-240VAC Maximum voltage range: 90-264VAC Frequency: 50/60Hz	Rated voltage range: 100-240V~ Maximum voltage range: 90-264V~ Frequency: 50/60Hz	Rated voltage range: 100-240V~ Maximum voltage range: 90-264V~ Frequency: 50/60Hz

Specifications	RG- NBS5100- 24GT4SFP	RG- NBS5100- 48GT4SFP	RG- NBS5100- 24GT4SFP-P	RG- NBS5200- 24GT4XS	RG- NBS5200- 48GT4XS	RG- NBS5200- 24SFP/8GT4 XS	RG- NBS5200- 48GT4XS-UP	RG- NBS5200- 24GT4XS-P
EMC	EN							
	55032:201							
	5+AC:201	EN	EN	EN	EN	EN	EN	EN
	6	55032:2015	55032:2015	55032:2015	55032:2015	55032:2015	55032:2015	55032:2015
	EN 61000-	+AC:2016	+AC:2016	+AC:2016	+AC:2016	+AC:2016	+AC:2016	+AC:2016
	3-2:2014	EN 61000-3-	EN 61000-3-	EN 61000-3-	EN 61000-3-	EN 61000-3-	EN 61000-3-	EN 61000-3-
	EN 61000-	2:2014	2:2014	2:2014	2:2014	2:2014	2:2014	2:2014
	3-3:2013	EN 61000-3-	EN 61000-3-	EN 61000-3-	EN 61000-3-	EN 61000-3-	EN 61000-3-	EN 61000-3-
	EN	3:2013	3:2013	3:2013	3:2013	3:2013	3:2013	3:2013
	55035:201	EN	EN	EN	EN	EN	EN	EN
	7	55035:2017	55035:2017	55035:2017	55035:2017	55035:2017	55035:2017	55035:2017
	ETSI EN	ETSI EN 300	ETSI EN 300	ETSI EN 300	ETSI EN 300	ETSI EN 300	ETSI EN 300	ETSI EN 300
	300 386	386 V2.1.1	386 V2.1.1	386 V2.1.1	386 V2.1.1	386 V2.1.1	386 V2.1.1	386 V2.1.1
	V2.1.1	(2016-07)	(2016-07)	(2016-07)	(2016-07)	(2016-07)	(2016-07)	(2016-07)
	(2016-07)							

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