

RG-NBS5300-8MG2XS-UP

Multi-Gigabit Layer 3 Cloud Managed Switch

DATASHEET

[Explore More](#)



Highlights

- 2.5 Gbps ports smash the gigabit barrier and unlock the full potential of WiFi 6 APs.
- 802.3bt/at/af-compliant PoE++ ports with a total power supply of 370W.
- IP-MAC-Port Binding, ACL, Port Security, Storm Control, DHCP Snooping, 802.1X, Radius Authentication.
- Lifetime management on Ruijie Cloud at anytime anywhere.

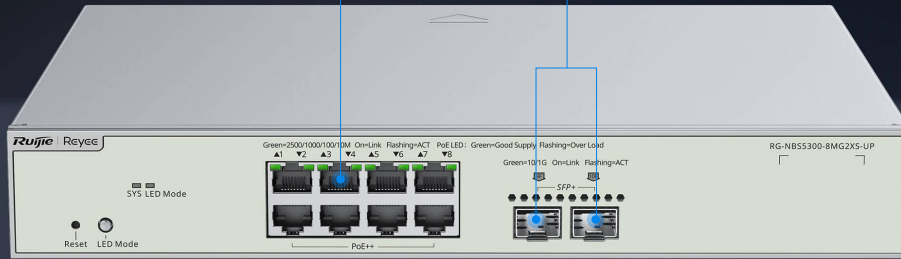
Highlight Features

RG-NBS5300-8MG2XS-UP

8-Port Multi-Gigabit Layer 3 Cloud Managed Switch, 2-SFP+ Uplink

8 x 2.5 G RJ45 PoE ports
Each port support max 90W

2 X 10G SFP



8 x 2.5G PoE+ Ports
for WiFi 6



PoE++ Budget
370W

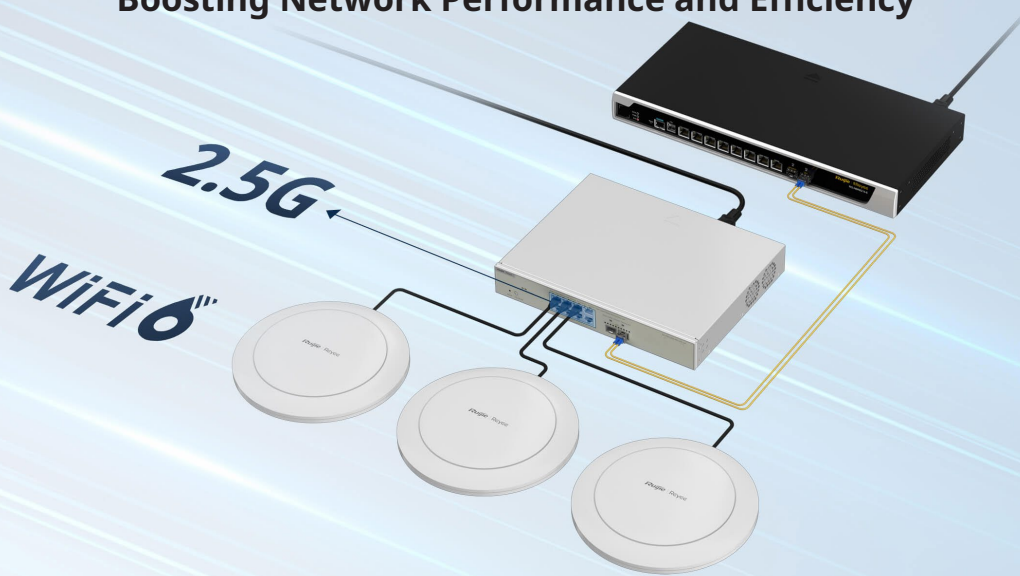


2 x 10G SFP
Uplink



Layer 3
Cloud Management

Integration with WiFi 6 AP, Boosting Network Performance and Efficiency



Highlight Features

90W PoE Power Delivery
Meet High-Power Device Demands

90W (802.3bt)



Enterprise-class Quality Ensures High Performance

[Link Aggregation](#) IGMP Snooping VLAN



Highlight Features

Enterprise-class Quality Ensures High Performance

Link Aggregation

IGMP Snooping

VLAN

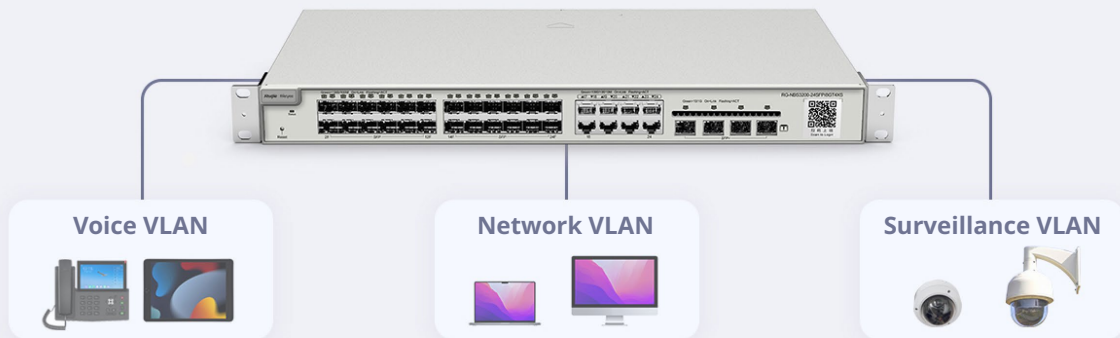


Enterprise-class Quality Ensures High Performance

Link Aggregation

IGMP Snooping

VLAN



Highlight Features

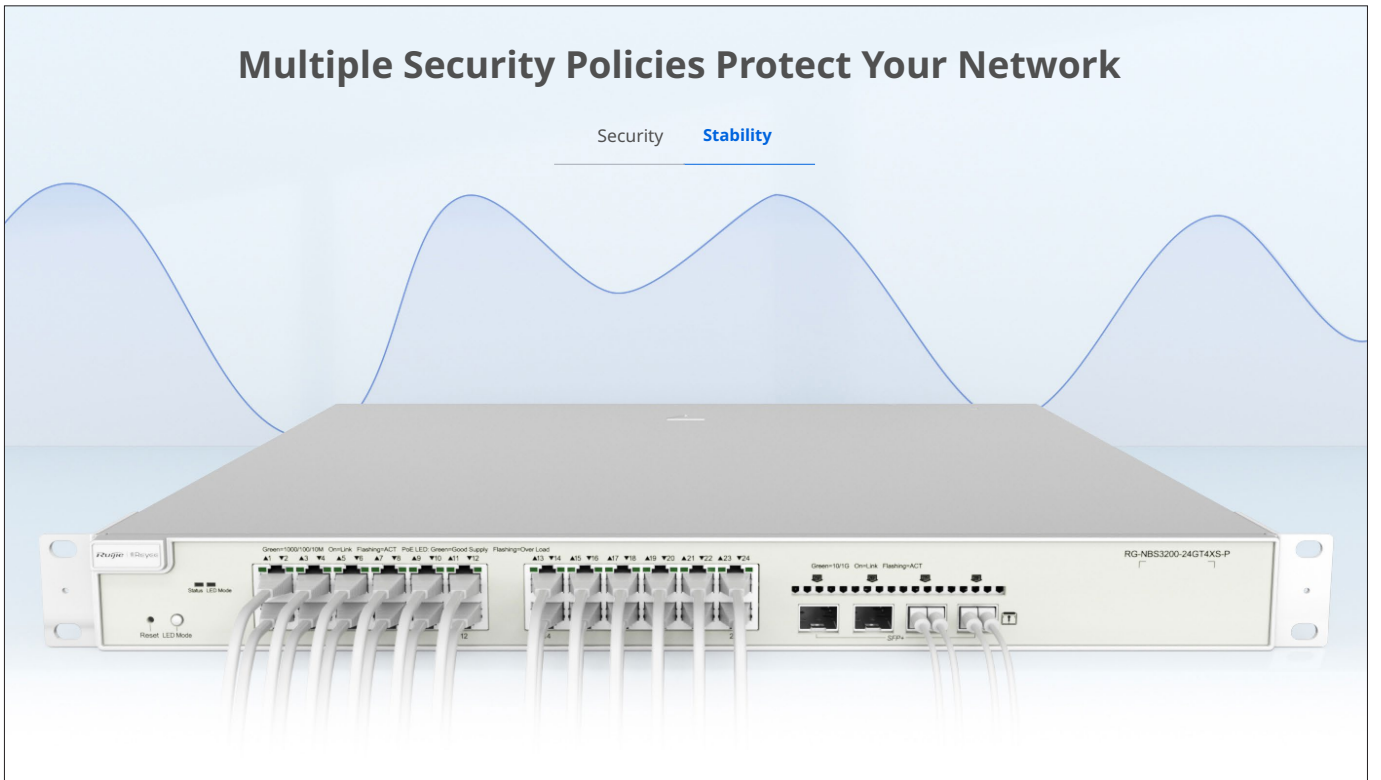
Multiple Security Policies Protect Your Network

Security Stability



Multiple Security Policies Protect Your Network

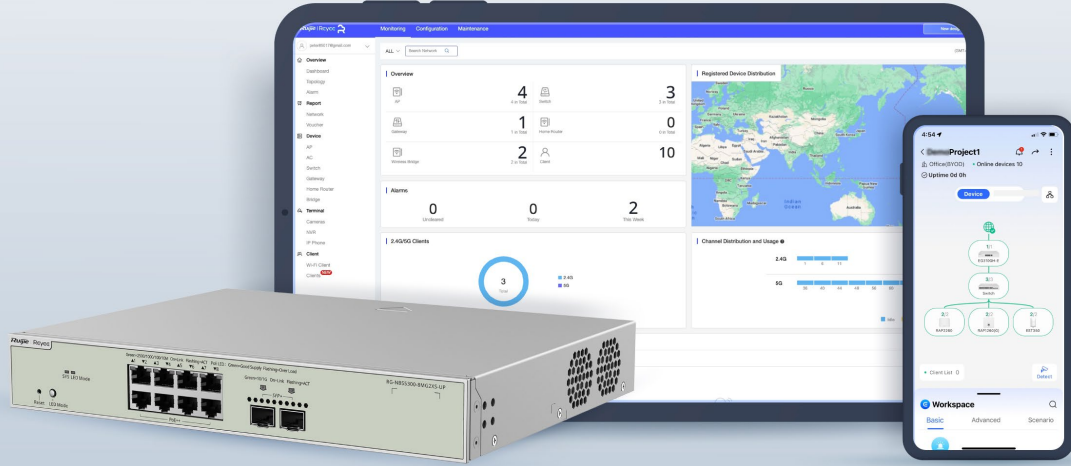
Security Stability



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-NBS5300-8MG2XS-UP
Basic	
Total Number of Electrical Ports	8
Total Number of Optical Ports	2
Number of 10 Gbps Optical Ports (SFP+)	2
Number of 10/100/1000/2500Base-T Ports	8
Number of PoE/PoE+ Ports	8
Number of PoE/PoE+/PoE++ Ports	8
Max. PoE Power Budget	370W
PoE Power Pins	1 2- 7 8-, 3 6+ 4 5+
Extend Mode (Long-Range Transmission)	N/A
Layer	L3
Switching Capacity	80Gbps
Forwarding Rate	58.72Mpps
Buffer Size	12 Mbits
ARP Table Size	2000
Flash Memory	256MB
SDRAM	512MB
MAC Address Table Size	16000
Max. Number of VLANs	4094
Dimensions (W x D x H)	300mm x 233mm x 43.6mm
Net Weight	2.5 kg
Mean Time Between Failure (MTBF)	400000H
Safety Compliance	IEC 62368-1

Specifications	RG-NBS5300-8MG2XS-UP
Warranty	5
Layer2 features	
Jumbo Frame Length (MTU)	9216 Bytes(Per-port MTU)
Flow Control	Yes
Port Isolation / Protected Port	Yes
STP (IEEE 802.1D)	Yes
RSTP (IEEE 802.1w)	Yes
MSTP (IEEE 802.1s)	No
PortFast	Yes
BPDU Guard	Yes
Auto Errdisable Recovery	Yes
Link Aggregation	Yes
Max. Number of LAGs	16
Max. Members per LAG	8
Unknown Unicast Storm Control	Yes
Broadcast Storm Control	Yes
Multicast Storm Control	Yes
SPAN	Yes
RSPAN	No
ERSPAN	No
VLAN Range	1-4094
Port-based VLAN	Yes
MAC-based VLAN	No
IP-based VLAN	No
Voice VLAN	Yes

Specifications	RG-NBS5300-8MG2XS-UP
RLDP	Yes
LLDP	Yes
LLDP-MED	Yes
LLDP-PoE	No
Cable Test	Yes
IGMP Snooping v1	Yes
IGMP Snooping v2	Yes
IGMP Snooping v3(Basic)	Yes
Max. Number of SVIs	32
IPv4 Ping	Yes
IPv6 Ping	Yes
Traceroute	Yes
IP Standard ACL	Yes
MAC Extended ACL	Yes
IP Extended ACL	Yes
Port-Level Rate Limiting (Ingress/Egress)	Yes
DNS Client	Yes
SNMP v1	Yes
SNMP v2c	Yes
SNMP v3	Yes
Web Management	Yes
HTTP	Yes
HTTPS	Yes
Ruijie Cloud Management	Yes
Ruijie Reyee App Management	Yes

Specifications	RG-NBS5300-8MG2XS-UP
IP-based Self-Organizing Network (SON)	Yes
Camera Detection	Yes
Loop Prevention	Yes
Loop Notification	Yes
PoE Power Usage Alarm	Yes
IP Source Guard	Yes
Anti-ARP Spoofing	Yes
DHCP Snooping	Yes
DHCP Client	Yes
AAA(Authentication,Authorization,Accounting)	No
IEEE 802.1X Authentication	Yes
PoE Watchdog	Yes
Digital Diagnostic Monitoring (DDM)	Yes
Number of ACEs	In-1900 Out-0
Number of VCS Members	2
DHCP Relay	Yes
G.8032 (ERPS)	No
RADIUS	Yes
TACACS+	No
CPU Protection Policy (CPP)	Yes
MQTT	Yes
QoS	Yes
SON Priority	2560
Web Authentication	Yes

Specifications	RG-NBS5300-8MG2XS-UP
Layer 3 features	
Static Routing	Yes
DHCP Server	Yes
RIP	Yes
RIPng(RIP Next Generation)	Yes
OSPFv2(Open Shortest Path First Version 2)	Yes
OSPFv3	Yes
Virtual Cluster Switching (VCS)	Yes
Hardware Specifications	
Reset Button	Yes
DIP Switch	LED MODE
Cable Hot-Swappable	Yes
Power Supply	Rated voltage range: 100-240V~ Maximum voltage range: 90-264V~ Frequency: 50/60Hz Rated current: 6A
Power Consumption	450W
EEE	Yes
Port Surge Protection	Common Mode 6KV
Power Supply Surge Protection	Common Mode 6KV Differential mode 6KV
Airflow	Left to right
Fan Speed Control	Hardware-based adjustment
Acoustic Noise Level	<40dB (when the device works normally)
Operating Temperature	0 to 50°C
Storage Temperature	-40 to 70°C
Operating Humidity	10% to 90% RH(non-condensing)

Specifications	RG-NBS5300-8MG2XS-UP
Storage Humidity	5% to 95% RH(non-condensing)
Electrostatic Discharge (ESD) Protection	Air Discharge: 8KV Contact Discharge: 6KV
Casing	Metal
Mounting	Rack installation
LEDs	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Green) Per SFP Interface: LINK/ACT(Green)
Operating Altitude (m)	-500~5000M
Certification	CE
EMC	EN 55032:2015+AC:2016 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55035:2017 ETSI EN 300 386 V2.1.1 (2016-07)

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 **Redefine your easy network**

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