

# RG-NBS5300-8MG2XS-UP Multi-Gigabit Layer 3 Cloud Managed Switch

DATASHEET



## 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.

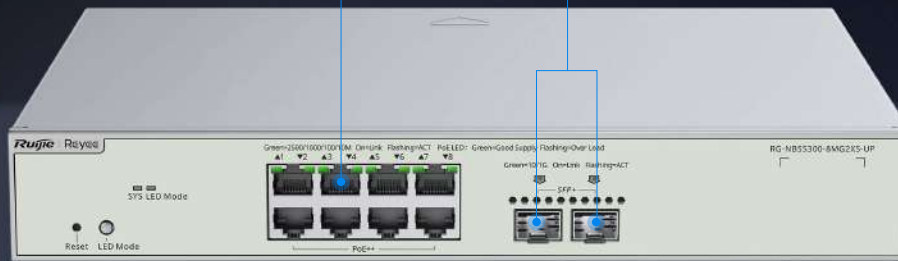
# Highlight Features

## 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



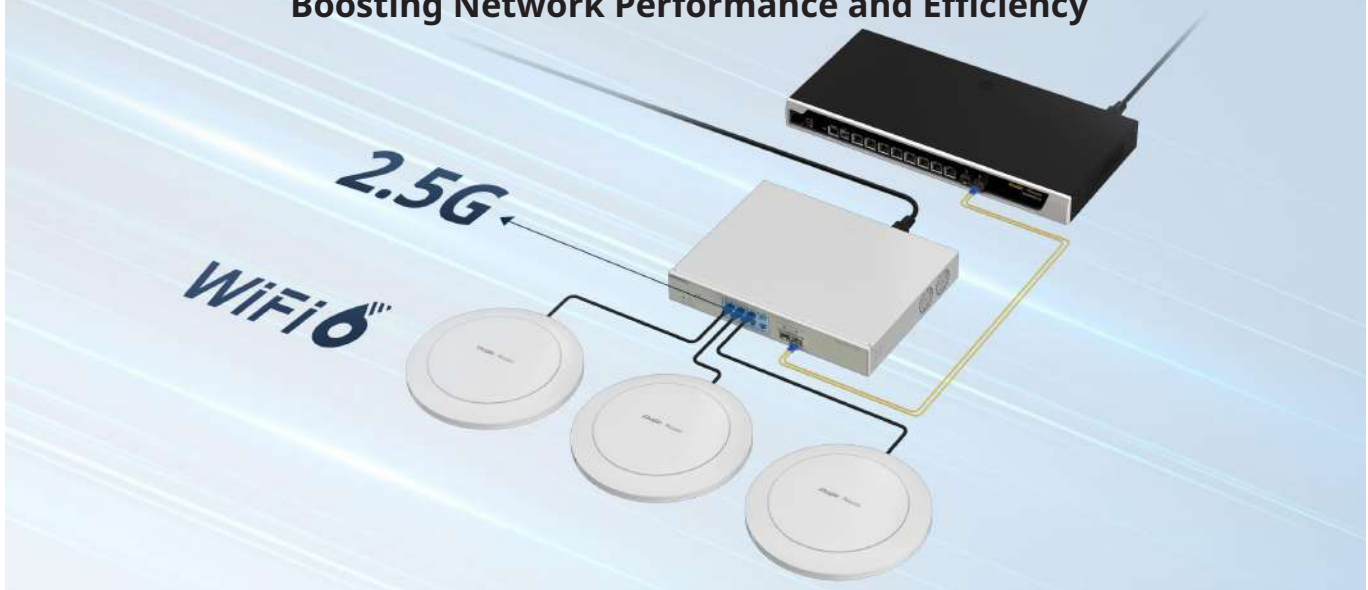
8 x 2.5G PoE+ Ports  
for WiFi 6

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)



30W (802.3af)

Enterprise-class Quality Ensures High Performance

[Link Aggregation](#)   IGMP Snooping   VLAN



# Highlight Features

## Enterprise-class Quality Ensures High Performance

Link Aggregation

**IGMP Snooping**

VLAN

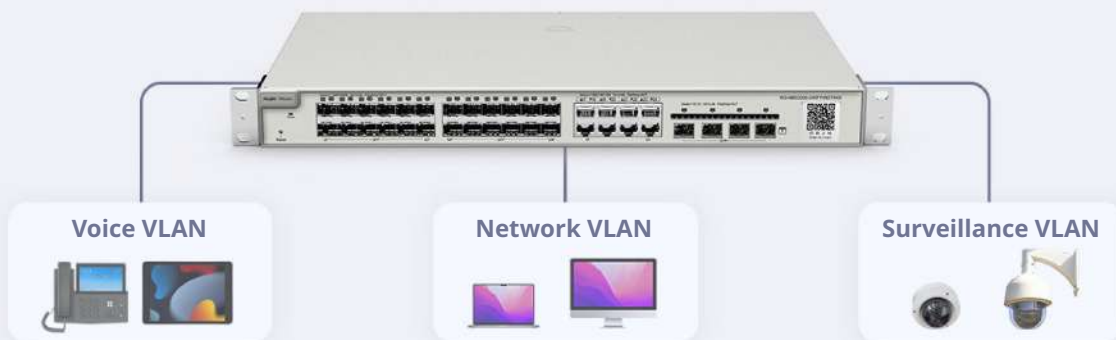


## Enterprise-class Quality Ensures High Performance

Link Aggregation

IGMP Snooping

**VLAN**



# Highlight Features

## Multiple Security Policies Protect Your Network

Security Stability



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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

## Basic

| Specification                       | RG-NBS5300-8MG2XS-UP   |
|-------------------------------------|--|
| 10/100/1000/2500Base-T copper ports | 8  |
| SFP+ ports                          | 2  |
| PoE/PoE+/PoE++ ports                | 8  |
| Max. PoE budget                     | 370W   |
| Layer Type                          | Layer 3  |
| Switching capacity                  | 80Gbps   |
| Forwarding rate                     | 58.72Mpps  |
| Switching Cache                     | 12Mbit   |
| ARP Table Size                      | 2000   |
| MAC address table                   | 16,000   |
| Maximum VLAN Support                | 4094   |
| Dimensions (W x D x H)              | 300mm x 230mm x 43.6mm (The depth excludes the front panel)<br>300mm x 233mm x 43.6mm (The depth includes the front panel) |
| Weight (With package)               | 3.25kg   |
| MTBF                                | 400000H  |
| Warranty                            | 5 Years  |

## Layer 2 Features

|                    |               |
|--------------------|---------------|
| Jumbo Frame        | 9216          |
| Flow Control       | ✓             |
| STP (IEEE 802.1d)  | ✓             |
| RSTP (IEEE 802.1w) | ✓             |
| MSTP (IEEE 802.1s) | non-supported |
| Port Fast          | ✓             |

# Specifications

## Layer 2 Features

| Specification                           | RG-NBS5300-8MG2XS-UP |
|---|----------------------|
| BPDU Guard                              | ✓                    |
| Errdisable Recovery                     | ✓                    |
| Max. Aggregation Group                  | 16                   |
| Max. Member per Group                   | 8                    |
| Unknow Unicast Storm Suppression        | ✓                    |
| Multicast / Broadcast Storm Suppression | ✓                    |
| Many-to-One Mirroring                   | ✓                    |
| VLAN Range                              | 1~4094               |
| Port-based VLAN                         | ✓                    |
| MAC-based VLAN                          | non-supported        |
| IP-based VLAN                           | non-supported        |
| Voice VLAN                              | ✓                    |
| RLDP                                    | ✓                    |
| LLDP / LLDP-MED                         | ✓                    |
| Cable Testing                           | ✓                    |
| IGMP Snooping v1/v2/v3                  | Y/Y/N                |

## Layer 3 Features

|                        |    |
|------------------------|----|
| Static Routing         | ✓  |
| RIP/RIPng              | ✓  |
| OSPFv2/OSPFv3          | ✓  |
| VCS                    | 2  |
| Max. No. of SVI (IPv4) | 32 |
| Max. No. of SVI (IPv6) | 32 |



# Specifications

## Software Features

| Specification                          | RG-NBS5300-8MG2XS-UP |
|--|----------------------|
| Ping                                   | ✓                    |
| Traceroute                             | ✓                    |
| ACL Entries                            | ✓                    |
| Static Routing                         | ✓                    |
| IP Standard ACL                        | ✓                    |
| MAC-based Extended ACL                 | ✓                    |
| IP-based Extended ACL                  | ✓                    |
| Port-based Rate Limit (Ingress/Egress) | ✓                    |
| SNMP v1/v2c/v3                         | ✓                    |
| DHCP Server                            | ✓                    |
| Web Management                         | ✓                    |
| Management IP                          | 10.44.77.200         |
| HTTP/HTTPS                             | ✓                    |
| Cloud Management                       | ✓                    |
| SON (Self-Organizing Network) with IP  | ✓                    |
| Camera Recognition                     | ✓                    |
| Loop Prevention                        | ✓                    |
| Loop Notification                      | ✓                    |
| Protection Port                        | ✓                    |
| IP Source Guard                        | ✓                    |
| Anti-ARP Spoofing                      | ✓                    |
| DHCP Snooping                          | ✓                    |

# Specifications

## Physical Features

| Specification                 | RG-NBS5300-8MG2XS-UP                           |
|-------------------------------|--|
| DHCP Client                   | ✓  |
| Flash Memory                  | 256MB  |
| Reset Button                  | front  |
| Cable Hot-swappable           | ✓  |
| Power Supply Slot             | Single, fixed power supply                     |
| Power Supplies                | 100 - 240V AC, 10A                             |
| Power Consumption (220VAC)    | No PoE load: 42.48W;<br>Full PoE load: 431.86W |
| EEE                           | ✓  |
| Fan                           | 2  |
| Airflow                       | Left/Right-to-Rear                             |
| Fan Adaptive Speed Adjustment | ✓  |
| Acoustic Noise                | <40dB  |
| Operating Temperature         | 0°C to 50°C (32°F to 122°F)                    |
| Storage Temperature           | -40°C to 70°C (-40°F to 158°F)                 |
| Operating Humidity            | 10% to 90% RH                                  |
| Storage Humidity              | 5% to 95% RH                                   |
| Port Surge                    | 6 kV   |
| Operating Altitude (meters)   | -500 to 5000                                   |
| Certificate                   | CE, RoHS                                       |

**Ruijie | Rcycc**

 **Redefine your easy network**

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