Manuals+ — User Manuals Simplified.

**RG-NBS6002
Layer 3
Cloud
Managed
Switch**

Ruijie RG-NBS6002 Layer 3 Cloud Managed Switch User Guide

Contents

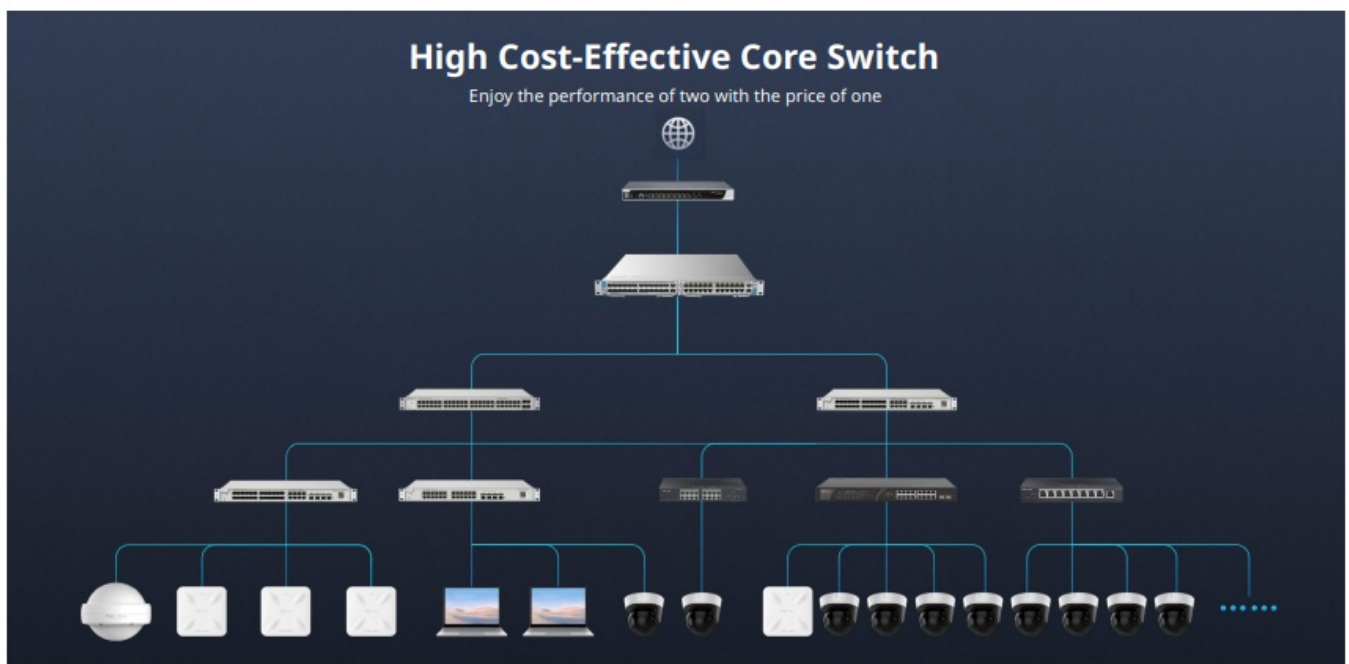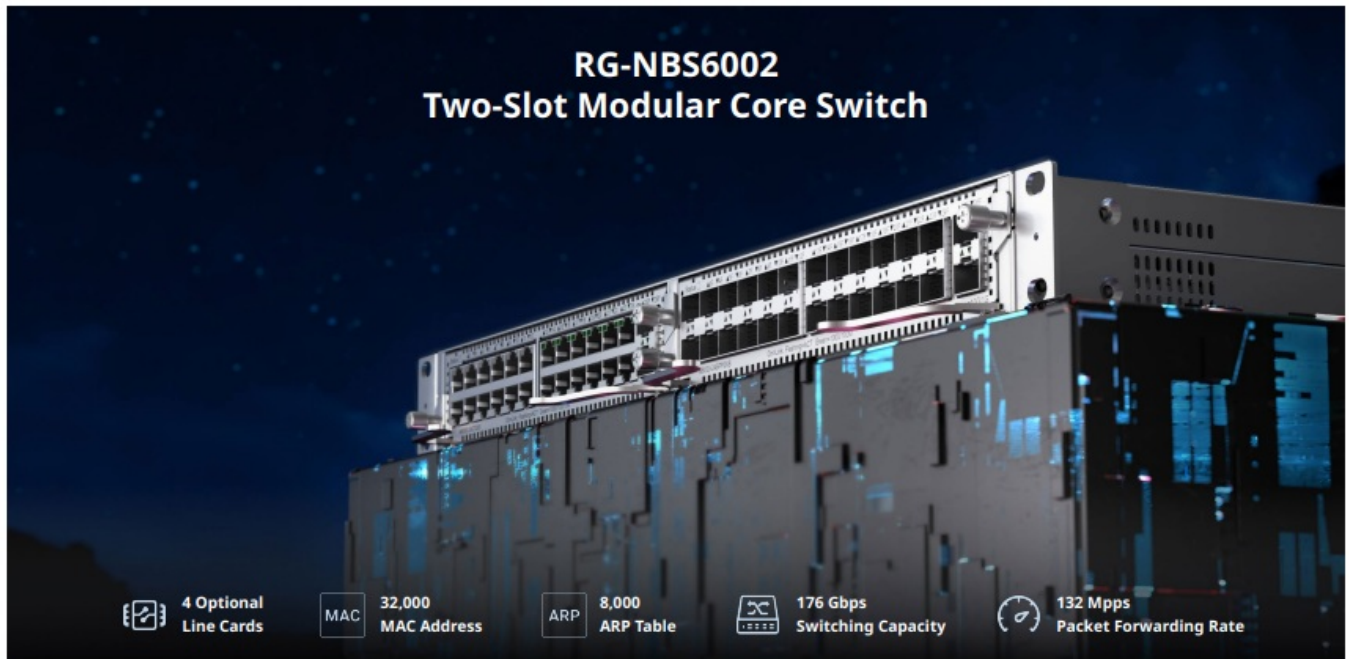**Ruijie RG-NBS6002 Layer 3 Cloud Managed Switch**

Highlights

- Modular design provides scalability and flexibility

- Static 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-NBS6002
Two-Slot Modular Core Switch

4 Optional Line Cards | 32,000 MAC Address | 8,000 ARP Table | 176 Gbps Switching Capacity | 132 Mpps Packet Forwarding Rate

High Cost-Effective Core Switch
Enjoy the performance of two with the price of one

Modular Design: High performance, Scalability, and Flexibility

High-Level Redundancy, Ensuring Nonstop Service

High-Level Redundancy, Ensuring Nonstop Service

Redundant Modules   Virtual Cluster Switching (VCS)

2 power slots & 3 fans: ensuing service continuity

Redundant Modules   **Virtual Cluster Switching (VCS)**

Virtual Cluster Switching (VCS): service failover within seconds

Stack
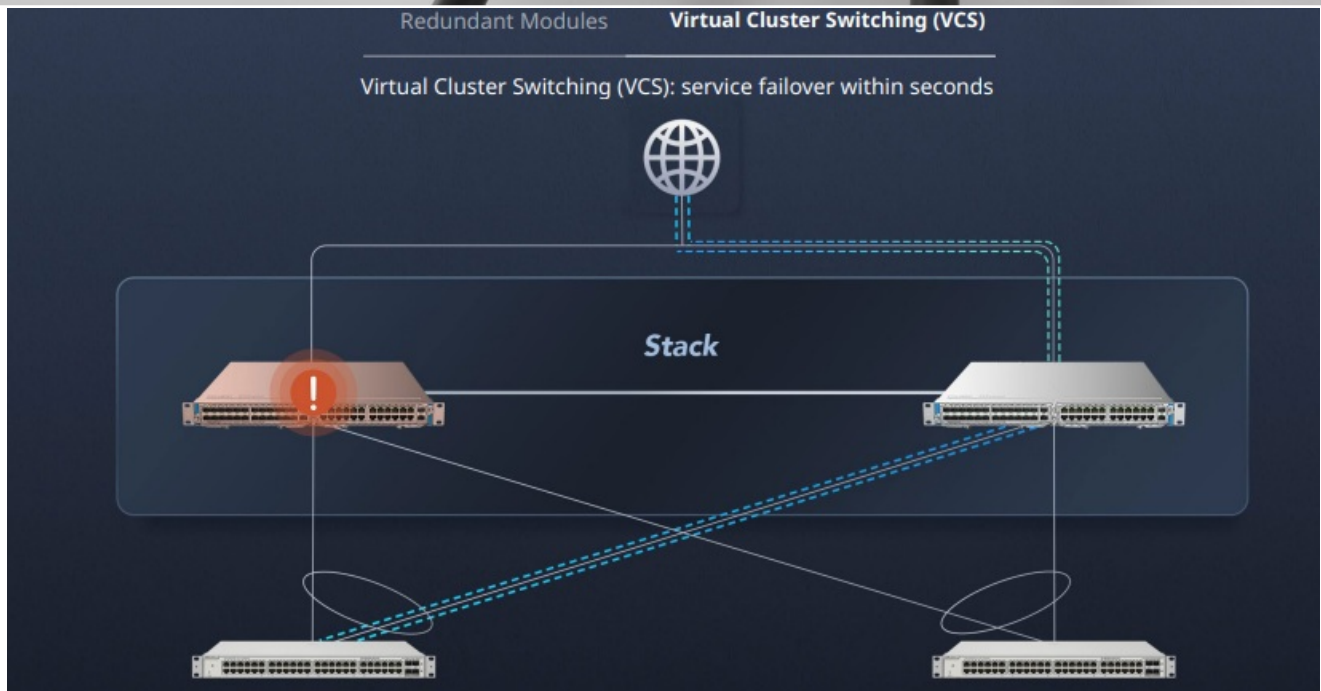
Cloud, Make Your Business Easy

- SON, zero-touch provisioning to Cloud
- Configure VLANs on Ruijie Cloud APP

- Monitor switch statistics at any time anywhere
- Easy mainteinance, save onsite time and cost

Specifications

Basic

- Model RG-NBS6002
- 10/100/1000Base-T ports 48 * 10/100/1000BASE-T ports (Maximum)
- SFP ports 48* SFP ports (Maximum)
- SFP+ ports 4* SFP+ ports (Maximum)
- Layer Type Layer 3
- Switching capacity 176Gbps
- Forwarding rate 132Mpps
- Packet Buffer 16 Mbit
- MAC address table 32,000
- Maximum VLAN
- Support 4094
- Dimensions (W x D x H) 581 mm x 533 mm x 131 mm
- Weight (With package) 6.2KG
- MTBF > 400,000
- Warranty 5 Years

Layer 2 Features

- Jumbo Frame 9216
- Flow Control ✓
- STP (IEEE 802.1d) ✓
- RSTP (IEEE 802.1w) ✓

- MSTP (IEEE 802.1s) –
- Port Fast ✓
- BPDU Guard ✓

Layer 2 Features

- Model RG-NBS6002 ✓
- Errdisable Recovery ✓
- Max. Aggregation Group 16
- Max. Member per Group 8
- Unknown Unicast Storm Suppression ✓
- Multicast / Broadcast Storm Suppression ✓
- Many-to-One Mirroring ✓
- VLAN Range 1-4094
- Port-based VLAN ✓
- MAC-based VLAN ✓
- IP-based VLAN ✓
- Voice VLAN ✓
- RLDP ✓
- LLDP / LLDP-MED ✓
- Cable Testing ✓
- IGMP Snooping v1/v2/ v3 ✓

Software Features

- Ping ✓
- Traceroute ✓
- ACL Entries 1900
- Static Routing ✓
- IP Standard ACL ✓
- Layer 2 Features ✓
- Model RG-NBS60 ✓

Software Features

- Model RG-NBS6002
- MAC-based Extended ACL ✓
- IP-based Extended ACL ✓
- Port-based Rate Limit (Ingress/Egress) ✓
- SNMP v1/v2c/v3 ✓

- OSPF ✓
- RIP ✓
- IPv6 ✓
- SNMP ✓
- 802.1X ✓
- 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 ✓
- PoE Usage Alarm –
- Protection Port ✓
- IP Source Guard ✓
- Anti-ARP Spoofing ✓

Software Features

- Model RG-NBS6002
- DHCP Snooping ✓
- DHCP Client ✓

Physical Features

- Reset Button rear
- Cable Hot-swappable ✓
- Power Supply Slot Dual, modular power supply
- Power Supplies 100 – 240V AC, 3A
- Power Consumption ≤ 126W
- EEE ✓
- Fan 3
- Airflow Left/right-to-Rear
- Fan Adaptive Speed Adjustment ✓
- Acoustic Noise < 68dB
- 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

Line Card & Service Module

- M6000-24GT2XS 24 Gigabit Ethernet copper port (RJ45) + 2 10-Gigabit Ethernet fiber port (SFP+,LC)
- M6000-16GT8SFP2XS 16 Gigabit Ethernet copper port (RJ45) + 8 Gigabit Ethernet fiber port (SFP+,LC) + 2 10-Gigabit Ethernet fiber port (SFP+,LC)
- M6000-24SFP2XS 24 Gigabit Ethernet fiber port (SFP+,LC) + 2 10-Gigabit Ethernet fiber port (SFP+,LC)
- M6000-16SFP8GT2XS 16 Gigabit Ethernet fiber port (SFP+,LC) + 8Gigabit Ethernet copper port (RJ45) + 2 10-Gigabit Ethernet fiber port (SFP+,LC)

Package Contents

- Device RG-NBS6002
- Mounting Bracket 2
- Footpad 4
- Power supply Modular power
- Quick Start Guide 1
- Warranty Card 1
- Accessories Screws * 6
- Package Weight 6.2KG
- Package Dimension (w x d x h) 596 mm x 285 mm x 558 mm

Notice

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Frequently Asked Questions

- **Q: How many MAC addresses can the RG-NBS6002 switch support?**
  - A: The RG-NBS6002 switch can support up to 32,000 MAC addresses.
- **Q: What is the warranty period for the RG-NBS6002 switch?**
  - A: The RG-NBS6002 switch comes with a warranty period of 5 years.
- **Q: Can the RG-NBS6002 switch be managed remotely?**
  - A: Yes, the RG-NBS6002 switch can be managed remotely via Ruijie Cloud at any time and from anywhere.

Documents / Resources

Ruijie RG-NBS6002 Layer 3 Cloud Managed Switch [pdf] User Guide
RG-NBS6002 Layer 3 Cloud Managed Switch, RG-NBS6002, Layer 3 Cloud Managed Switch, 3 Cloud Managed Switch, Managed Switch, Switch

References

- **𝓡 Ruijie Networks | Network Devices and Solutions Provider**
- **User Manual**