

RG-NBS6002

Layer 3 Cloud Managed Switch

DATASHEET

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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



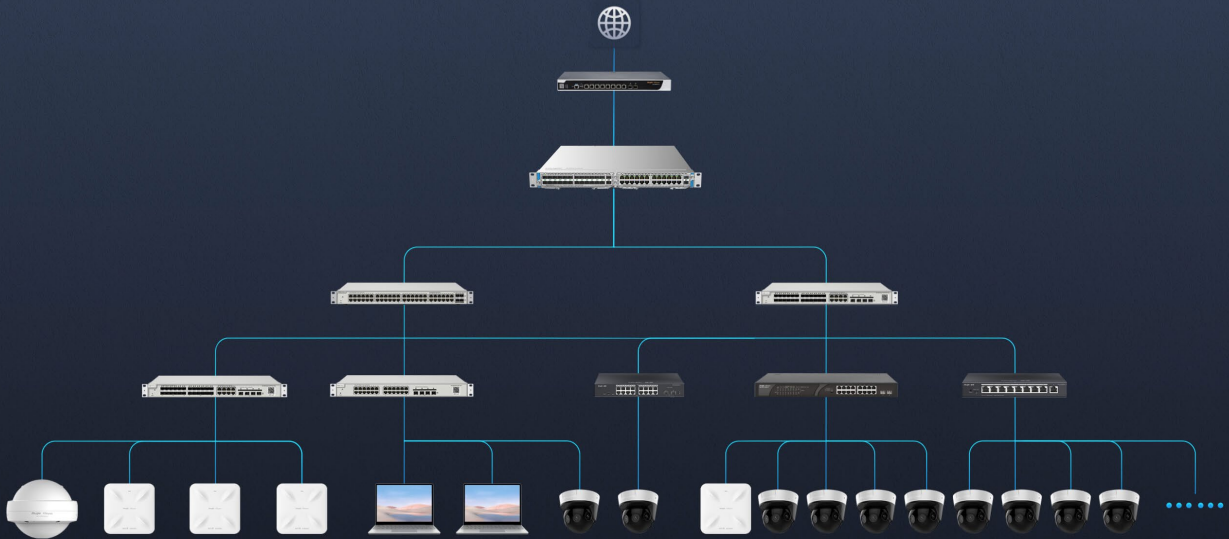
176 Gbps
Switching Capacity



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

Support 4 types of line cards, 11 Combinations

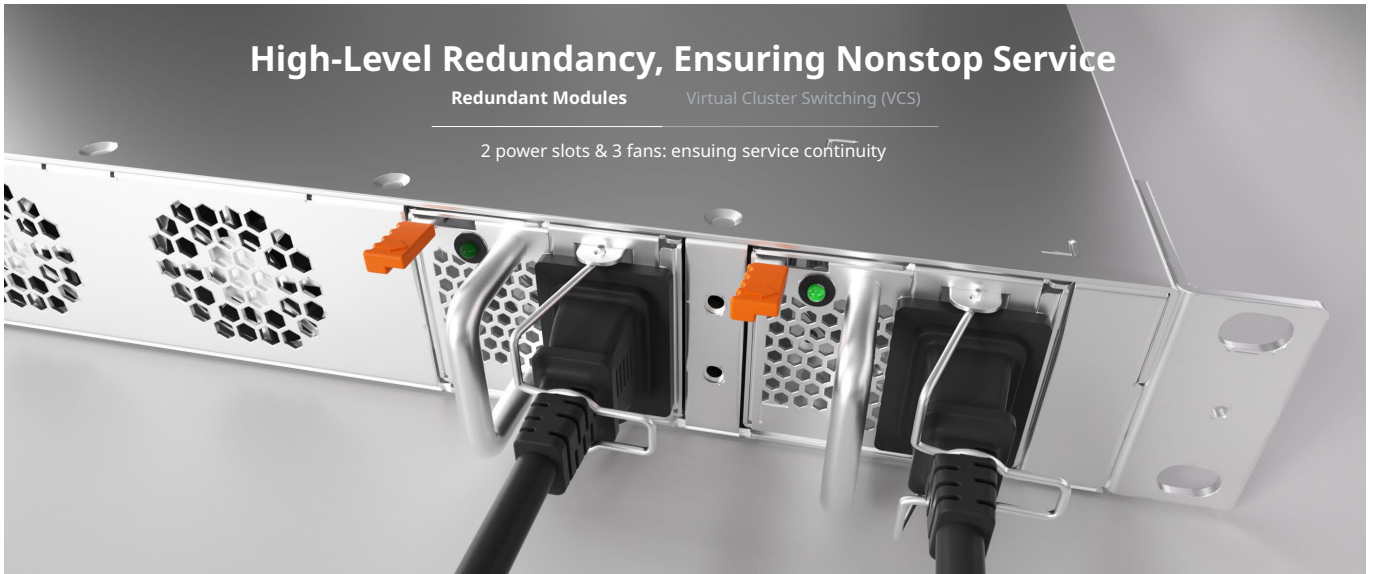


Highlight Features

High-Level Redundancy, Ensuring Nonstop Service

Redundant Modules Virtual Cluster Switching (VCS)

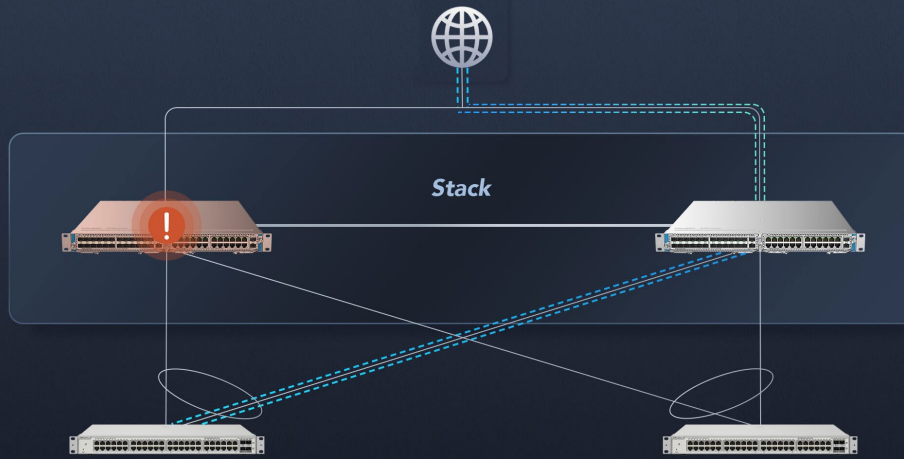
2 power slots & 3 fans: ensuring service continuity



High-Level Redundancy, Ensuring Nonstop Service

Redundant Modules Virtual Cluster Switching (VCS)

Virtual Cluster Switching (VCS): service failover within seconds



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-NBS6002
Basic	
Chassis	Yes
Number of Line Card Slots	2
Layer	L3
Switching Capacity	176 Gbps
Forwarding Rate	132 Mpps
Buffer Size	16 Mbits
ARP Table Size	4000
Flash Memory	256 MB
SDRAM	1 GB
MAC Address Table Size	32000
Max. Number of VLANs	4094
Dimensions (W x D x H)	442 mm x 460 mm x 44 mm
Net Weight	5.4 kg
Mean Time Between Failure (MTBF)	400000H
Safety Compliance	IEC 62368-1
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

Specifications	RG-NBS6002
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
RLDP	Yes
LLDP	Yes
LLDP-MED	Yes
LLDP-PoE	No
Cable Test	Yes
IGMP Snooping v1	Yes
IGMP Snooping v2	Yes

Specifications	RG-NBS6002
IGMP Snooping v3(Basic)	Yes
Max. Number of SVIs	64
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 Reeye App Management	Yes
IP-based Self-Organizing Network (SON)	Yes
Camera Detection	Yes
Loop Prevention	Yes
Loop Notification	Yes
IP Source Guard	Yes
Anti-ARP Spoofing	Yes
DHCP Snooping	Yes

Specifications	RG-NBS6002
DHCP Client	Yes
AAA(Authentication,Authorization,Accounting)	No
IEEE 802.1X Authentication	Yes
Digital Diagnostic Monitoring (DDM)	Yes
Number of ACEs	In-1900 Out-0
Number of VCS Members	2
DHCP Relay	Yes
RADIUS	Yes
CPU Protection Policy (CPP)	Yes
MQTT	Yes
QoS	Yes
SON Priority	4668
Web Authentication	Yes
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
Cable Hot-Swappable	Yes

Specifications	RG-NBS6002
Number of Power Supply Slots	2
Power Supply	Rated voltage range: 100 V AC to 240 V AC Maximum voltage range: 90 V AC to 264 V AC Frequency: 50 Hz to 60 Hz Rated Current: <3A (x2)
Power Consumption	126 W
EEE	Yes
Port Surge Protection	Common Mode: 6 kV
Power Supply Surge Protection	Common Mode 6KV Differential mode 6KV
Number of Fans	3
Airflow	Left to rear and right to rear airflow
Fan Speed Control	Hardware-based adjustment
Acoustic Noise Level	<68 dB (when the device works normally)
Operating Temperature	0 to 50°C
Storage Temperature	-40°C to +70°C
Operating Humidity	10% to 90% RH(non-condensing)
Storage Humidity	5% to 95% RH(non-condensing)
Electrostatic Discharge (ESD) Protection	Air Discharge: 8 kV Contact Discharge: 6 kV
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

Specifications	RG-NBS6002
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)

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)

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