

RG-NBS6002

Layer 3 Cloud Managed Switch

DATASHEET

[Explore More ▶](#)



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



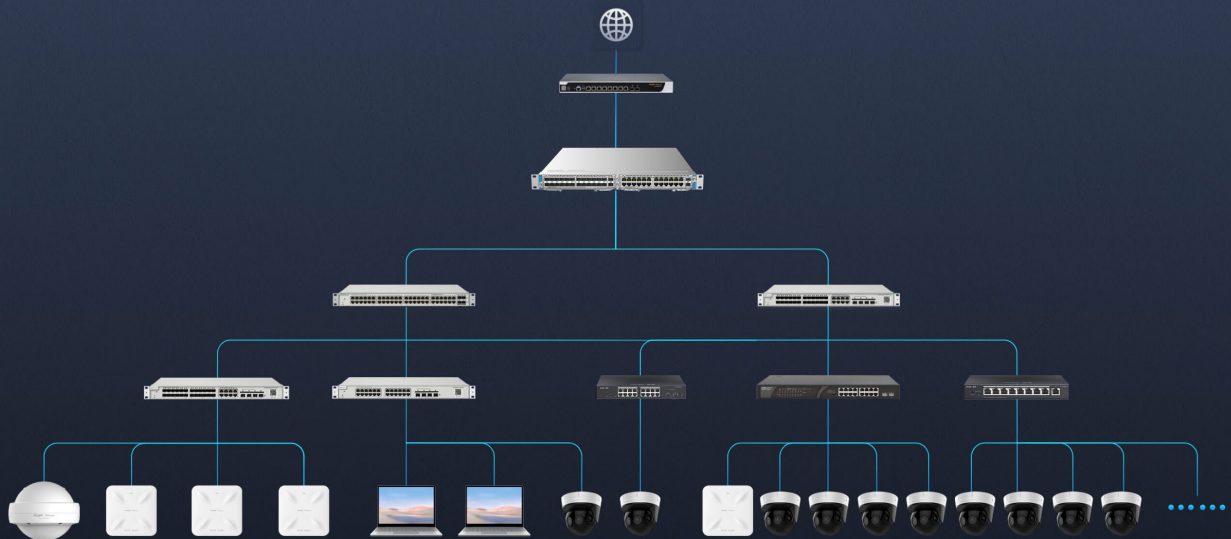
176 Gbps
Switching Capacity



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



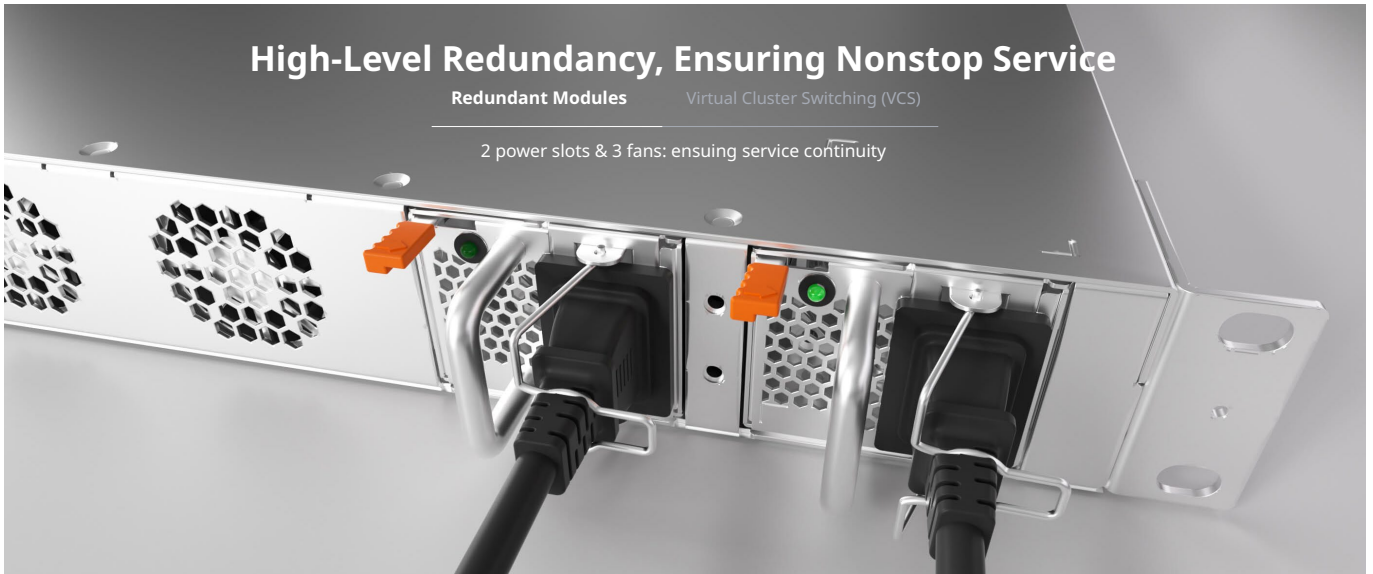
Highlight Features

High-Level Redundancy, Ensuring Nonstop Service

Redundant Modules

Virtual Cluster Switching (VCS)

2 power slots & 3 fans: ensuring service continuity

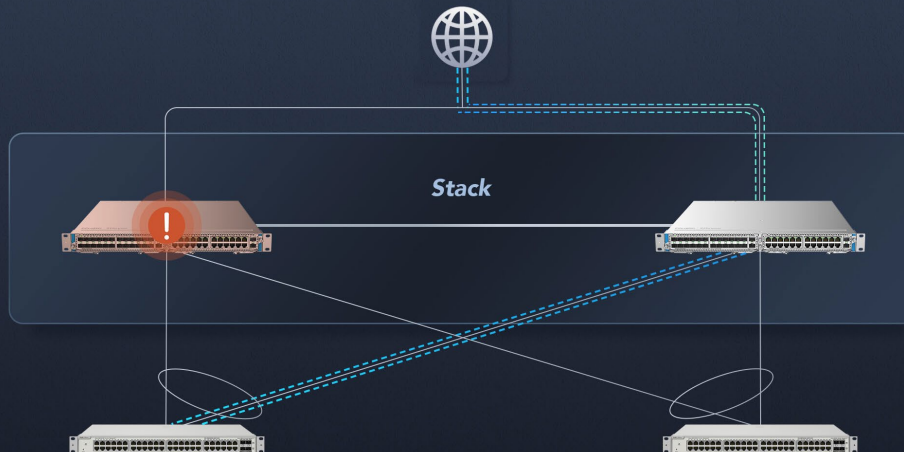


High-Level Redundancy, Ensuring Nonstop Service

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
Hardware Specifications		
System Specifications	CPU	Switching chip with a built-in single-core CPU, 1 GHz
	RAM	1 GB
	Flash memory	256 MB
	Recommended camera limit	200W H265:520 400W H265:260
	Forwarding rate	132 Mpps
	Switching capacity	176 Gbps
	Maximum number of VLANs	4094
	Maximum number of MAC address entries	32000
	Maximum number of ARP entries	4000
	Routing table capacity (main unit routing)	12000
	Maximum number of IPv4 static routes	500
	Routing table capacity (network routing)	2000
	Maximum number of IPv6 static routes	500
	Maximum number of ACEs	In-1900 Out-0
	Number of VCS members	2
Power	Power input	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)
	Maximum power consumption	126 W
	Power output	RG-PA150I-FS: 100-240V~ P: 150W
	Input power supply	System power module: 2
	Power module	2

Specifications		RG-NBS6002
FAN	Fan	3
	Fan speed adjustment	Hardware-based adjustment
	Heat dissipation	430.92 BTU/hr(220V/50Hz)
	Acoustic noise	<68 dB (when the device works normally)
Button	Reset button	Yes
EMC	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)
Safety Compliance	Safety compliance	IEC 62368-1
Certification	CE, FCC	CE
Mounting	Mounting	Rack installation
Casing	Casing	Metal
Cable Hot-Swappable	Hot swapping of cables	Supported by all ports
Mean Time Between Failure (MTBF)	MTBF	400000H
Warranty	Warranty Card	5
EEE	EEE	Yes
Environment and Reliability	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)
	Operating altitude	-500~5000M
	ESD protection	Air Discharge: 8 kV Contact Discharge: 6 kV
	Surge protection	Common Mode: 6 kV

Specifications		RG-NBS6002
	Surge protection	Common Mode 6kV Differential mode 6kV
Package Contents	Dimensions (W x D x H)	442 mm x 460 mm x 44 mm
	Weight	5.4 kg
	Shipping weight	6.82kg
	Rack-mount bracket	2
	Screw	M4 Screw*8
	User Manual	1
	Rubber pad	4
	Input power supply	System power module: 2
	Warranty Card	1
L2		
Jumbo Frame	Jumbo frame length (MTU)	9216 Bytes(Per-port MTU)
port	Port flow control	Yes
	Port isolation	Yes
	EEE	Yes
	Cable Test	Yes
VLAN	IEEE802.1Q VLAN	Yes
	Port-based VLAN	Yes
	Voice VLAN	Yes
STP	STP (IEEE 802.1d)	Yes
	RSTP (IEEE 802.1w)	Yes
	MSTP (IEEE 802.1s)	Yes
LLDP	LLDP	Yes
	LLDP-MED	Yes
SPAN	Port mirroring	Yes

Specifications		RG-NBS6002
	Mirroring	Yes
IGMP	IGMPv1 snooping	Yes
	IGMPv2 snooping	Yes
	Basic IGMPv3 snooping	Yes
	Full IGMPv3 snooping	Yes
	IGMP filtering	Yes
Mac Address	Static MAC address	Yes
	MAC address filtering	Yes
Link Aggregation	Static aggregation	Yes
	Load balancing	Yes
	LACP	Yes
Storm Suppression	Broadcast storm control	Yes
	Multicast storm control	Yes
	Unknown unicast storm control	Yes
L3		
ARP	ARP	Yes
IPv4	IPv4 ping	Yes
	IPv4 static route	Yes
	IPv4 traceroute	Yes
IPv6 Configuration	IPv6 static route	Yes
	ICMPv6	Yes
	IPv6 ping	Yes
	IPv6 traceroute	Yes
OSPF	OSPFv2	Yes
	OSPFv3	Yes

Specifications		RG-NBS6002
IGMP	IGMP V1, V2, V3	Yes
DNS	DNS client	Yes
	DNSv6 client	Yes
DHCP	DHCP relay	Yes
	DHCP snooping	Yes
	DHCP server	Yes
	DHCP client	Yes
HTTP v6	HTTP Access by IPv6	Yes
High Features		
ACL	Standard ACL	Yes
	Extended MAC ACL	Yes
	Extended IP ACL	Yes
	IPv6 ACL	Yes
QoS	802.1p traffic classification	Yes
	DSCP-based traffic classification	Yes
	Egress queues based on 802.1p and DSCP	Yes
	SP	Yes
	WRR	Yes
	SP+WRR	Yes
	Global QoS	Yes
	Interface-based rate limiting (ingress/egress)	Yes
Online Upgrade	Online Upgrade	Yes
RLOG	RLOG	Yes
Self-Organizing Network	SON	Yes

Specifications		RG-NBS6002
syslog	System log	Yes
Client Identification	Client discovery	Yes
ALARM	Camera detection	Yes
	Loop alarm	Yes
	MAC address entries	Yes
	IP address pool conflicts	Yes
	Full ARP table	Yes
Radius	RADIUS	Yes
802.1X	802.1X authentication	Yes
	Port-based 802.1X authentication	Yes
	MAC-based 802.1X authentication	Yes
	Guest VLAN	Yes
IP+MAC Port Binding	IP-MAC-port binding	Yes
Anti-ARP Spoofing	ARP anti-spoofing	Yes
IP Source Guard	IP source guard	Yes
CPU Protection Policy (CPP)	CPU Protection Policy	Yes
Management Features		
Web Management	eWeb	Yes
MACC	Ruijie Cloud	Yes
APP	Ruijie Reyee App	Yes
SNMP	SNMPv1, v2c, and v3	Yes

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)

Ruijie | Rcycc

 **R**edefine **y**our **e**asy **n**etwork

Copyright ©2000-2024 Ruijie Networks Co., Ltd. All rights reserved.

No part of this document may be reproduced or transmitted in any form or any means without prior written consent of Ruijie Networks Co., Ltd.

Notice

This content is applicable only to regions outside the China mainland. Ruijie Networks Co., Ltd. reserves the right to interpret this content.

The information contained herein is subject to change without notice. Nothing herein should be construed as constituting an additional warranty. Ruijie Networks Co., Ltd. shall not be liable for technical or editorial errors or omissions contained herein.



Ruijie Networks Co., Ltd.

Official Website: <https://Rcycc.Ruijie.com>