

RG-NBS6002 Layer 3 Cloud Managed Switch

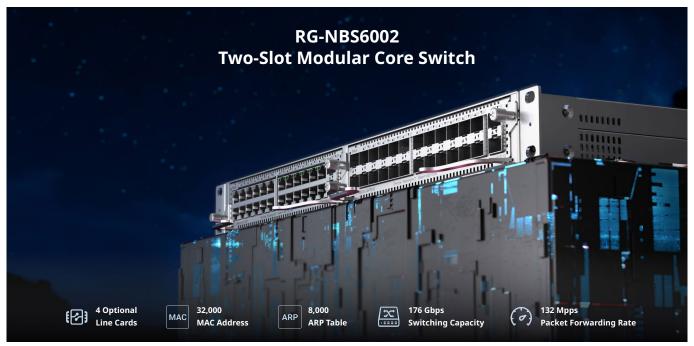
DATASHEET | Explore More >

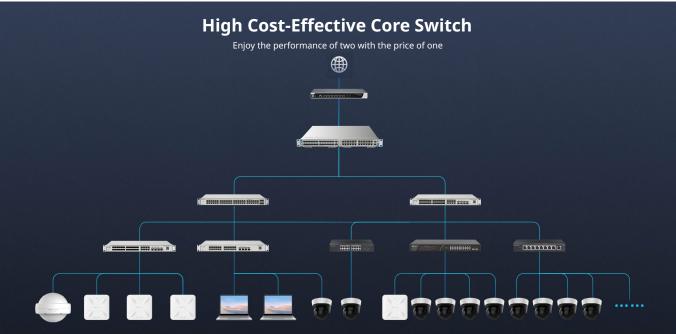


Highlights

- 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

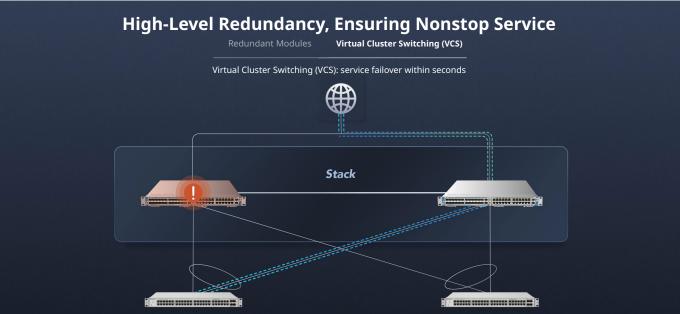




Modular Design: High performance, Scalability, and Flexibility Support 4 types of line cards, 11 Combinations

/ Highlight Features







Specifications		RG-NBS6002
Hardware Specifications		
Product Information	Warranty	5 years
	Product category	Layer 3
	Total number of RJ45 ports	Determine the quantity based on the type and number of line cards.
Port Specifications	Number of 10GE SFP+ ports	Determine the quantity based on the type and number of line cards.
	Number of 10/100/1000BASE-T ports	Determine the quantity based on the type and number of line cards.
	Module slots	2 line card slots
Interface Specifications		2 system power module slots
	Reset button	1
	EMC	EN 55032
		EN 61000-3-2
Certification		EN 61000-3-3
and Regulatory		EN 55035
Compliance		EN 300 386
	Safety compliance	IEC 62368-1
	Certification	CE
	Power input	RG-PA150I-FS (AC input):
Power Supply and Consumption		• Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz
		• Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz
		Maximum input current: 3 A
	Maximum power consumption	126 W
		RG-PA150I-FS:
	Power output	90 V AC to 264 V AC: 12 V DC (output voltage), 12.5 A (maximum output current)

Specifications		RG-NBS6002
Power Supply and Consumption	Power supply	Power module
Dimensions and	Casing	Metal
	Product dimensions (W x D x H)	442 mm x 460 mm x 44 mm (17.4 in. x 18.11 in. x 1.73 in.)
Weight	Weight	5.4 kg (11.9 lbs) (including the empty chassis, without packaging materials)
	Shipping weight	6.82 kg (15.04 lbs) (including packaging materials and empty chassis)
	CPU	Switching chip, single-core processor, 1 GHz clock frequency
	RAM	1 GB
System Specifications	Flash memory	256 MB
	Forwarding rate	132 Mpps
	Switching capacity	176 Gbps(bit/s)
	Fan	3 x fixed fans
	Cooling	Device: Air cooling, front-to-rear airflow Line card: Air cooling, front-to-rear airflow + left-to-rear airflow + right-to-rear airflow Power module: Air cooling, front-to-rear airflow + left-to-rear airflow + right-to-rear airflow
Environment	Acoustic noise	25°C (77°F): 68 dB
and Reliability	Mounting options	Rack
	Hot swapping of cables	Service ports support hot swapping of cables.
	MTBF	400,000 hours
	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% RH to 90% RH (non-condensing)
	Storage humidity	5% RH to 95% RH (non-condensing)

Specifications		RG-NBS6002
	Altitude	Operating altitude: –500 m to +5,000 m (– 1,640.42 ft. to +16,404.20 ft.)
		Storage altitude: –500 m to +5,000 m (– 1,640.42 ft. to +16,404.20 ft.)
Environment and Reliability	ESD protection	Contact discharge: 6 kV
and Kenabiney	ESD protection	Air discharge: 8 kV
		Service port: ±6 kV for common mode
	Surge protection	Power connector: ±6 kV for both common mode and differential mode
	Software Specificati	ons
Basic Configurations	Online upgrade	Yes
System		200 W H265: 520
Performance Capacity	Recommended camera limit	400 W H265: 260
Interface	Jumbo frame length (MTU)	9216 bytes (interface configuration mode)
	EEE	Yes
	Cable test	Yes
Reliability	Number of VCS members	2
	System dual backup	Yes (Only supported on devices with a factory-installed software version of ReyeeOS 2.320 or later)
	Enabling dual backup for the partition Uboot (based on a single flash memory)	Yes
Authentication	RADIUS	Yes

Specifications		RG-NBS6002
	802.1X authentication	Yes
Authentication	Port-based 802.1X authentication	Yes
	MAC address-based 802.1X authentication	Yes
	Guest VLAN	Yes
	IGMPv1 snooping	Yes
	IGMPv2 snooping	Yes
Multicast	Basic IGMPv3 snooping	Yes
Wulticast	Full IGMPv3 snooping	Yes
	IGMP filtering	Yes
	IGMPv1, v2, and v3	Yes
	802.1p priority-based traffic classification	Yes
	DSCP priority-based traffic classification	Yes
Gateway	Egress queues based on 802.1p and DSCP priorities	Yes
Features	SP	Yes
	WRR	Yes
	SP+WRR	Yes
	Global QoS	Yes
	Maximum number of IPv4 static routes	500
	IPv6 routing table size (network route)	2000
	Maximum number of IPv6 static routes	500
IP Routing	IPv4 static route	Yes
	IPv6 static route	Yes
	OSPFv2	Yes
	OSPFv3	Yes
IP Service	Maximum number of ARP entries	4000

Specifications		RG-NBS6002
	IPv4 routing table size (host route)	12000
	ARP	Yes
	IPv4 ping	Yes
	IPv4 traceroute	Yes
	ICMPv6	Yes
	IPv6 ping	Yes
IP Service	IPv6 traceroute	Yes
	DNS client	Yes
	DNSv6 client	Yes
	DHCP relay	Yes
	DHCP server	Yes
	DHCP client	Yes
	Maximum number of ACEs	Number of ACEs in the inbound direction of an interface: 1900
		Number of ACEs in the outbound direction of an interface: 0
	Port isolation	Yes
	Broadcast storm control	Yes
	Multicast storm control	Yes
Security	Unknown unicast storm control	Yes
	DHCP snooping	Yes
	Standard ACL	Yes
	Extended MAC ACL	Yes
	Extended IP ACL	Yes
	IPv6 ACL	Yes
	IP-MAC-port binding	Yes

Specifications		RG-NBS6002
	ARP anti-spoofing	Yes
Security	IP source guard	Yes
Security	CPU Protection Policy	Yes
	Maximum number of VLANs	4094
	Maximum number of MAC address entries	32000
	Interface flow control	Yes
	IEEE 802.1Q VLAN	Yes
	VLAN configuration supported on LAN ports	Yes
	Voice VLAN	Yes
	STP (IEEE 802.1d)	Yes
Ethernet	RSTP (IEEE 802.1w)	Yes
Switching	MSTP (IEEE 802.1s)	Yes
	LLDP	Yes
	LLDP-MED	Yes
	Static MAC address	Yes
	MAC address filtering	Yes
	Static aggregation	Yes
	LACP	Yes
	Inbound or outbound rate limiting based on interface traffic	Yes
	Port mirroring	Yes
Network	Mirroring	Yes
Management and Monitoring	HTTP login	Yes
and Monitoring	HTTPS login	Yes
	RLOG	Yes

Specifications		RG-NBS6002
	SON	Yes
	Syslog	Yes
	Client auto-discovery	Yes
	Camera detection	Yes
	Loop alarm	Yes
	MAC address entries	Yes
	IP address pool conflicts	Yes
	Full ARP table	Yes
	eWeb management	Yes
	Ruijie Cloud management	Yes
	Ruijie Reyee App management	Yes
	SNMPv1, v2c, and v3	Yes
Package Contents		S
Device	Device	1
Manual	User Manual	1
manaa	Warranty Card	1
	Rack-mount bracket	2
	Rubber pad	4
Accessories	Screw	8 M4 x 8 mm cross recessed countersunk head screws
		1 M4 x 10 mm cross recessed countersunk head screw
	Grounding cable	1 x 2 m (6.56 ft.)

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)





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://Reyee.Ruijie.com