

28 Port Gigabit Managed Network Switch (24 Port GbE PoE, 4 SFP) - 370 W

RG-NBS31-24G4S-P2



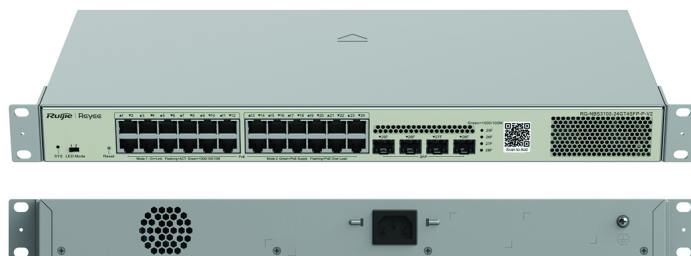
The RG-NBS31-24G4S-P2 is a 28-port Layer 2 cloud-managed PoE switch designed for commercial, enterprise and CCTV networks. It features 24 Gigabit PoE+ ports, four Gigabit SFP uplinks and a substantial 370W PoE budget. With a 56 Gbps switching capacity, intelligent IP camera recognition and advanced network security, it delivers reliable connectivity and simplified management. Lifetime-free Ruijie Cloud access enables convenient remote monitoring and maintenance.

5-Year Manufacturer's Warranty

For full terms & conditions, please see – Ruijie Warranty T&Cs.

Features and Benefits

- » 24 Gigabit PoE+ ports deliver power and data through a single cable, simplifying the installation of access points, IP cameras and VoIP phones.
- » A substantial 370W PoE budget provides reliable power for multiple connected devices across larger network installations.
- » Four Gigabit SFP uplinks enable flexible fibre connections between switches, buildings and other network infrastructure.
- » 56 Gbps switching capacity and a 41.66 Mpps forwarding rate support smooth, efficient performance across busy networks.
- » IP camera recognition, PoE watchdog, loop alarms and PoE fault monitoring simplify CCTV management and troubleshooting.
- » Lifetime-free Ruijie Cloud management enables remote configuration, monitoring and maintenance through the Ruijie Reyeec App.



Specifications

Hardware Specifications

Port Specifications

Total number of RJ45 ports	24
Total number of optical ports	4
Number of 1GE combo ports	No
Number of 1GE SFP ports	4
Number of 10GE SFP+ ports	No
Number of 10/100BASE-T ports	No
Number of 10/100/1000BASE-T ports	24
Number of 10/100/1000/2500 BASE-T ports	No
Number of 100/1000/2.5G/5G/10GBASE-T ports	No
Module slots	No
Reset button	1
DIP switch	Moving the switch to the left (Mode 1): The port LED indicates the switch status. Moving the switch to the right (Mode 2): The port LED indicates the PoE status.

Power Supply and Consumption

PoE Out standard	PoE/PoE+ (IEEE 802.3af/at)
Number of PoE Out ports	24
Number of PoE/PoE+ Out ports	24

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Power Supply and Consumption (continued)

Number of PoE/ PoE+/PoE++ Out ports	No
PoE budget	370 W
PoE power pins	1-2 (+), 3-6 (-)
Power input	220 V AC power supply: • 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: 6 A
Maximum power consumption	21 W (with no PoE load) 443 W (with full PoE load)
Power output	No
Power supply	Fixed power supply

System Specifications

RAM	256 MB
Flash memory	16 MB
Forwarding rate	41.66 Mpps
Switching capacity	56 Gbps(bit/s)

Dimensions and Weight

Casing	Metal
Product dimensions (W x D x H)	440 mm x 215 mm x 44 mm (17.32 in. x 8.46 in. x 1.73 in.)
Weight	3 kg (6.61 lbs) (without packaging materials)
Shipping weight	3.53 kg (7.78 lbs)

Environment and Reliability

Hot swapping of fan modules	No
Fan	1 x fixed fan
Cooling	Air cooling, front-to-rear airflow + left-to-rear airflow
Acoustic noise	25°C (77°F): 45 dB
Mounting options	Rack
Hot swapping of cables	Service ports support hot swapping of cables.
MTBF	400,000 hours
Operating temperature	0-50°C/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)

Environment and Reliability (continued)

Storage humidity	5% RH to 95% RH (non-condensing)
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.)
Corrosion class	No
ESD protection	Contact discharge: 6 kV Air discharge: 8 kV
Surge protection	Service port: ±6 kV for common mode Power connector: ±6 kV for both common mode and differential mode

Certification and Regulatory Compliance

EMC	EN 55032 EN 61000-3-2 EN 61000-3-3 EN 55035 EN 300 386
Safety compliance	IEC 62368-1
Certification	CE, FCC

Software Specifications

Authentication

RADIUS	Yes
802.1X authentication	Yes
Port-based 802.1X authentication	Yes
MAC address-based 802.1X authentication	Yes
Guest VLAN	Yes

Basic Configurations

PoE watchdog	Yes
Online upgrade	Yes

Ethernet Switching

Maximum number of VLANs	4094
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Ethernet Switching (continued)

Maximum number of MAC address entries	8000
Interface flow control	Yes
MAC address-based VLAN	No
IP subnet - based VLAN assignment	No
IEEE 802.1Q VLAN	Yes
Basic QinQ	No
VLAN configuration supported on LAN ports	Yes
Voice VLAN	Yes
STP (IEEE 802.1d)	Yes
RSTP (IEEE 802.1w)	Yes
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

Gateway Features

802.1p priority-based traffic classification	Yes
DSCP priority-based traffic classification	Yes
Egress queues based on 802.1p and DSCP priorities	Yes
SP	Yes
WRR	Yes
SP+WRR	Yes
Global QoS	Yes

Interface

Jumbo frame length (MTU)	9216 bytes (global configuration mode)
EEE	Yes

Interface (continued)

Cable test	Yes
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IP Routing

IPv4 static route	No
IPv6 static route	No
OSPFv2	No
OSPFv3	No

IP Service

Maximum number of ARP entries	1000
ARP	Yes
IPv4 ping	Yes
IPv4 traceroute	Yes
IPv6	Yes
ICMPv6	Yes
IPv6 ping	Yes
IPv6 traceroute	Yes
DNS client	Yes
DNSv6 client	Yes
DHCP relay	No
DHCP server	No
DHCP client	Yes

Multicast

IGMPv1 snooping	Yes
IGMPv2 snooping	Yes
Basic IGMPv3 snooping	Yes
Full IGMPv3 snooping	No
IGMP filtering	Yes
IGMPv1, v2, and v3	No

Network Management and Monitoring

Fan speed adjustment	Automatic speed adjustment
Port mirroring	Yes
Mirroring	Yes
HTTP login	Yes
HTTPS login	Yes
RLOG	Yes
SON	Yes
Syslog	Yes
Client auto-discovery	Yes
PoE service failure	Yes

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Network Management and Monitoring (continued)

PoE power overload	Yes
SSH	No
Camera detection	Yes
Loop alarm	Yes
MAC address entries	Yes
IP address pool conflicts	Yes
Full ARP table	No
eWeb management	Yes
Ruijie Cloud management	Yes
Ruijie Reyee App management	Yes
SNMPv1, v2c, and v3	Yes

Reliability

System dual backup	No
Enabling dual backup for the partition Uboot (based on a single flash memory)	No
Load balancing	No
ERPS	Yes

Security

Maximum number of ACEs	Number of ACEs in the inbound direction of an interface: 1200 Number of ACEs in the outbound direction of an interface: 0
Port isolation	Yes
Broadcast storm control	Yes
Multicast storm control	Yes
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
ARP anti-spoofing	Yes
IP source guard	Yes

Security (continued)

CPU Protection Policy	Yes
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System Performance Capacity

Recommended camera limit	200 W H265: 120 400 W H265: 60
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Package Contents

Device

Device	1
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Accessories

Rubber pad	4
Power cord retention clip	1
Screw	6 M4 x 8 mm cross recessed countersunk head screws
Grounding cable	1 x 1 m (3.28 ft.)
Power cord	1 x 1.5 m (4.92 ft.)
Rack-mount bracket	2

Manual

User Manual	1
Warranty Card	1