

10 Port Gigabit Layer 2 Business-Class Cloud-Managed PoE Network Switch (8x PoE+, 2x SFP), 125 W

RG-NBS31-8G2S-P2



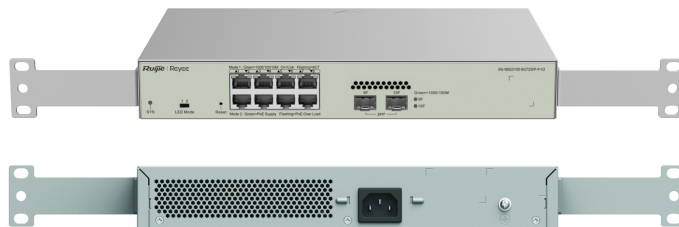
The RG-NBS31-8G2S-P2 is a 10-port Gigabit Layer 2 cloud-managed PoE switch designed for business, CCTV and enterprise networks. It features eight Gigabit PoE/PoE+ ports with a 125 W power budget and two Gigabit SFP uplinks for flexible fibre connectivity. Advanced VLAN, QoS, link aggregation and security functions help optimise and protect the network, while camera recognition and PoE watchdog simplify surveillance management. Lifetime-free Ruijie Cloud management enables convenient remote monitoring and maintenance.

5-Year Manufacturer's Warranty

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

Features and Benefits

- » Eight Gigabit PoE/PoE+ ports with a 125 W power budget provide high-speed data and power for cameras, access points and other PoE devices.
- » Two Gigabit SFP uplinks enable flexible, long-distance fibre connections to switches and network infrastructure.
- » Lifetime-free Ruijie Cloud and Reyee App management allow convenient remote configuration, monitoring and maintenance.
- » IP camera recognition and PoE watchdog simplify CCTV management and automatically restart unresponsive cameras.
- » VLANs, QoS and link aggregation help organise network traffic, prioritise critical services and improve connection performance.
- » Advanced security, loop protection and a five-year warranty deliver reliable, protected operation for business networks.



Specifications

Basic

10/100/1000Base-T ports	8
SFP ports	2
SFP+ ports	-
PoE/PoE+ ports	8
Max. PoE budget	125W
Layer Type	Layer 2
Switching capacity	20 Gbps
Forwarding rate	14.88 Mpps
Packet Buffer	4.1 Mbit
MAC address table	8,000
Maximum VLAN Support	4094
Dimensions (W x D x H)	330 mm x 220 mm x 43.6 mm
Weight (With package)	2 kg
MTBF	> 200,000
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	✓
Errdisable Recovery	✓
Max. Aggregation Group	8
Max. Member per Group	8
Unknown Unicast Storm Suppression	✓

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Layer 2 Features (continued)

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	1200
IP Standard ACL	✓
MAC-based Extended ACL	✓
IP-based Extended ACL	✓
Port-based Rate Limit (Ingress/Egress)	✓
SNMP v1/v2c/v3	✓
802.1X	✓
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	✓

Software Features (continued)

Anti-ARP Spoofing	✓
DHCP Snooping	✓
DHCP Client	✓
LACP (Q3,2023)	✓

Physical Features

Reset Button	Front
Cable Hot-swappable	✓
Power Supply Slot	Single, fixed power supply
Power Supplies	100 - 240V AC, 2A
Power Consumption	≤ 145W
EEE	✓
Fan	-
Airflow	-
Fan Adaptive Speed Adjustment	-
Acoustic Noise	Noiseless
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