52 Port Gigabit Layer 2+ Business-Class Cloud-Managed PoE Network Switch (48x PoE+, 4x 10GE SFP+), 370 W

RG-NBS32-48G4XS-P

Matchmaster For the Best

The RG-NBS32-48G4XS-P is a 52-port Gigabit Layer 2+ cloud-managed PoE switch designed for large businesses, CCTV and enterprise networks. It features 48 Gigabit PoE/PoE+ ports with a 370 W power budget and four 10 Gigabit SFP+ uplinks for high-capacity fibre connectivity. Static routing, VLAN, QoS, link aggregation and advanced security features improve network performance and resilience, 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

- 48 Gigabit PoE/PoE+ ports with a 370 W power budget deliver high-speed data and power for cameras, access points and other PoE devices.
- Four 10 Gigabit SFP+ uplinks provide high-capacity fibre connectivity, helping eliminate bottlenecks across demanding networks.
- 176 Gbps switching capacity and 132 Mpps forwarding deliver reliable performance for large, high-traffic installations.
- Layer 2+ functionality with IPv4/IPv6 static routing and DHCP relay supports efficient network segmentation and traffic management.
- IP camera recognition and PoE watchdog simplify CCTV management and automatically restart unresponsive connected cameras.
- Lifetime-free Ruijie Cloud management, advanced security and a 5-year warranty provide convenient, protected and dependable operation.

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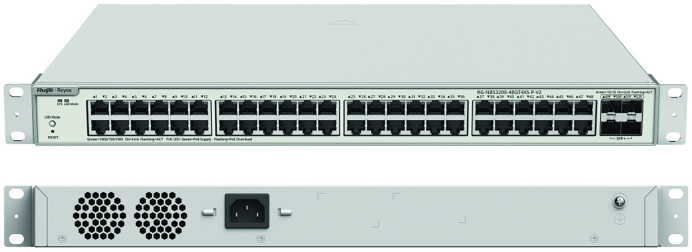

Specifications

Hardware Specifications

Port Specifications

Total number of RJ45 ports	48
Total number of optical ports	4
Number of 1GE combo ports	No
Number of 1GE SFP ports	No
Number of 10GE SFP+ ports	4
Number of 10/100BASE-T ports	No
Number of 10/100/1000BASE-T ports	48
Number of 10/100/1000/2500BASE-T ports	No
Number of 100/1000/2.5G/5G/10GBASE-T ports	No
Module slots	No
Reset button	1
DIP switch	No

Power Supply and Consumption

PoE Out standard	PoE/PoE+ (IEEE 802.3af/at)
Number of PoE Out ports	48
Number of PoE/PoE+ Out ports	48
Number of PoE/PoE+/PoE++ Out ports	No
PoE budget	370 W

Power Supply and Consumption (continued)

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	46 W (with no PoE load) 450 W (with full PoE load)
Power output	No
Power supply	Fixed power supply

System Specifications

RAM	512 MB
Flash memory	256 MB
Forwarding rate	132 Mpps
Switching capacity	176 Gbps(bit/s)

Dimensions and Weight

Casing	Metal
Product dimensions (W x D x H)	440 mm x 300.6 mm x 44 mm (17.32 in. x 11.83 in. x 1.73 in.)
Weight	4.32 kg (9.52 lbs) (without packaging materials)
Shipping weight	5.86 kg (12.92 lbs)

Environment and Reliability

Hot swapping of fan modules	No
Fan	2 x fixed fans
Cooling	Air cooling, side-to-rear airflow
Acoustic noise	23℃(73.4°F) : 30 dB (with half PoE load) 50℃(122°F) : 48 dB (with full PoE load)
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)

Environment and Reliability (continued)

Altitude	Operating altitude: 0 m to +5,000 m (0 ft. to +16,404.20 ft.) Storage altitude: 0 m to +5,000 m (0 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

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
Maximum number of MAC address entries	16000
Interface flow control	Yes
MAC address-based VLAN	No

Ethernet Switching (continued)

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 (interface configuration mode)
EEE	Yes
Cable test	Yes

IP Routing

Maximum number of IPv4 static routes	64
IPv6 routing table size (network route)	500

IP Routing (continued)

Maximum number of IPv6 static routes	64
IPv4 static route	Yes
IPv6 static route	Yes
OSPFv2	No
OSPFv3	No

IP Service

Maximum number of ARP entries	1000
IPv4 routing table size (host route)	12000
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	Yes
DHCP server	No
DHCP client	Yes

Multicast

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

Network Management and Monitoring

Fan speed adjustment	Intelligent 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
PoE power overload	Yes

Network Management and Monitoring (continued)

SSH	No
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

Reliability

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

Security

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
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
CPU Protection Policy	Yes

System Performance Capacity

Recommended camera limit	200 W H265: 300 400 W H265: 150

Package Contents

Device

Device	1

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