

10 Port Multi-Gigabit Layer 3 Managed Network Switch (8 x 2.5Gbps PoE++, 2 x 10Gbps SFP+)

RG-NBS53-8M2XS-UP



The RG-NBS53-8M2XS-UP is a 10 port managed network switch with 8 x 2.5Gbps POE++ ports and 2 x 10Gbps SFP+ ports. The switch is 802.3bt/at/af-compliant with a total power supply of 370W providing up to 90W power supply to the connected device. In addition, the switch will negotiate with the connected devices to adjust the PoE power automatically, thereby saving energy. Tailored for Enterprise, Hotel, Factory, Education, Retail, and more this switch ensures high-performance with secure connectivity for the modern network demands..



3-Year Manufacturer's Warranty

Refer to website for full terms & conditions

Features and Benefits

- » Ten port managed network switch with eight 2.5Gbps PoE++ ports, allowing you to elevate performance far beyond the gigabit barrier and unlock the full potential of Wi-Fi 6 APs
- » Offers a 370W PoE budget and up to 90W per PoE port
- » Lifetime management on Ruijie Cloud at any time, anywhere
- » Supports link aggregation, IP-MAC-Port Binding, ACL, Port Security, DoS Defend, Storm Control, DHCP Snooping, 802.1X, Radius Authentication
- » Layer 3 with a forwarding rate of 58.72Mpps and a switching capacity of 80Gbps
- » 5 year warranty for peace of mind and quality assurance



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Hardware Specifications	
Total Number of Electrical Ports	8
Total Number of Optical Ports	2
Number of 10 Gbps Optical Ports (SFP)	2
Number of 10/100/1000BASE-T Ports	8
Number of PoE/PoE+ Ports	8
Number of PoE/PoE+/PoE++ Ports	8
Max. PoE Power Budget	370W
PoE Power Pins	1 2- 7 8-,3 6+ 4 5+
Extend Mode (Long-Range Transmission)	N/A
Layer	L3
Switching Capacity	80Gbps
Forwarding Rate	58.72Mpps
Buffer Size	12 Mbits
ARP Table Size	2000
Flash Memory	256MB
SDRAM	512MB
MAC Address Table Size	16000
Max. Number of VLANs	4094
Dimensions (W x D x H)	300mm*233mm*43.6mm
Net Weight	2.5kg
Mean Time Between Failure (MTBF)	400000H
Safety Compliance	IEC 62368-1
Warranty	5
Layer 2 Features	
Jumbo Frame Length (MTU)	9216 Bytes(Global MTU)
Flow Control	Yes
Port Isolation / Protected Port	Yes
STP (IEEE 802.1D)	Yes
RSTP (IEEE 802.1w)	Yes
MSTP (IEEE 802.1s)	No
PortFast	Yes
BPDU Guard	Yes
Auto Errdisable Recovery	Yes
Link Aggregation	Yes
Max. Number of LAGs	16

Max. Members per LAG	8
Unknown Unicast Storm Control	Yes
Broadcast Storm Control	Yes
Multicast Storm Control	Yes
SPAN	Yes
RSPAN	No
ERSPAN	No
VLAN Range	1-4094
Port-based VLAN	Yes
MAC-based VLAN	No
IP-based VLAN	No
Voice VLAN	Yes
RLDP	Yes
LLDP	Yes
LLDP-MED	Yes
LLDP-PoE	No
Cable Test	Yes
IGMP Snooping v1	Yes
IGMP Snooping v2	Yes
IGMP Snooping v3(Basic)	Yes
Max. Number of SVIs	32
IPv4 Ping	Yes
IPv6 Ping	Yes
Traceroute	Yes
IP Standard ACL	Yes
MAC Extended ACL	Yes
IP Extended ACL	Yes
Port-Level Rate Limiting (Ingress/Egress)	Yes
DNS Client	Yes
SNMP v1	Yes
SNMP v2c	Yes
SNMP v3	Yes
Web Management	Yes
HTTP	Yes
HTTPS	Yes
Ruijie Cloud Management	Yes
Ruijie Reyee App Management	Yes
IP-based Self-Organizing Network (SON)	Yes
Camera Detection	Yes
Loop Prevention	Yes
Loop Notification	Yes

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PoE Power Usage Alarm	Yes
IP Source Guard	Yes
Anti-ARP Spoofing	Yes
DHCP Snooping	Yes
DHCP Client	Yes
AAA(Authentication,Authorization,Accounting)	No
IEEE 802.1X Authentication	Yes
PoE Watchdog	Yes
Digital Diagnostic Monitoring (DDM)	Yes
Number of ACEs	In-1900, Out-0
Number of VCS Members	2
DHCP Relay	Yes
G.8032 (ERPS)	No
RADIUS	Yes
TACACS+	No
CPU Protection Policy (CPP)	Yes
MQTT	Yes
QoS	Yes
SON Priority	2560
Web Authentication	Yes
Layer 3 Features	
Static Routing	Yes
DHCP Server	Yes
RIP	Yes
RIPng(RIP Next Generation)	Yes
OSPFv2(Open Shortest Path First Version 2)	Yes
OSPFv3	Yes
Virtual Cluster Switching (VCS)	Yes
Hardware Specifications	
Reset Button	Yes
DIP Switch	LED MODE
Cable Hot-Swappable	Yes
Power Supply	Rated voltage range: 100-240V~ Maximum voltage range: 90-264V~ Frequency: 50/60Hz Rated current: 6A
Power Consumption	450W
EEE	Yes

Port Surge Protection	Common Mode 6KV
Power Supply Surge Protection	Common Mode 6KV Differential mode 6KV
Airflow	Left to right
Fan Speed Control	Hardware-based adjustment
Acoustic Noise Level	<40dB (when the device works normally)
Operating Temperature	0 to 50°C
Storage Temperature	-40~75°C
Operating Humidity	10% to 90% RH(non-condensing)
Storage Humidity	5% to 95% RH(noncondensing)
Electrostatic Discharge (ESD) Protection	Air Discharge: 8KV Contact Discharge: 6KV
Casing	Metal
Mounting	Rack installation
LEDs	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Green) Per SFP Interface: LINK/ACT(Green)
Operating Altitude (m)	-500-5000M
Certification	CE
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)