

6 Port Gigabit Industrial Managed Network Switch (4 PoE+ GbE Ports Plus 2 SFP) RG-NIS31-4G2S-HP



The RG-NIS31-4G2S-HP is a PoE 6 port Gigabit industrial managed network switch. The switch features 6 ports, 4 ports PoE+ GbE, and 2 x SFP ports with a switching capacity of up to 12 Gbps. The RG-NIS31-4G2S-HP is a true industrial-grade switch designed for use in harsh environments like mining and salt air environments where temperatures, dust, and corrosion are prevalent. It has a 120W PoE budget (when matched with the RG-NIS-PA120-54 power supply, sold separately) and supports 802.3af and 802.3at standards.

3-Year Manufacturer's Warranty

Refer to website for full terms & conditions

Features and Benefits

- » 6 port managed industrial-grade switch specially designed for harsh environments (4 port PoE + 2 x SFP)
- » Industrial Design Ensures Stable Operation in -40°C to 80°C backed by a 5 year warranty.*
- » Offers a 120W PoE+ budget and up to 56V DC, 30W per PoE port. (RG-NIS-PA120-54 supplied separately)
- » IP40 against 1mm intruders in dusty conditions
- » 8 KV Protection: The Shield Against Voltage Spike
- » It supports PoE output on/off L2 features, port mirroring, loop protection, and cable detection with up to 12 Gbps switching capacity.

* Conditions apply; please see the operating manual to ensure the correct installation method and airflow are applied.



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Hardware Specifications	
Total Number of RJ45 Ports	4
Total Number of Optical Ports	2
Number of 1 Gbps Optical Ports (SFP)	2
Number of 10/100/1000BASE-T Ports	4
Number of PoE/PoE+ Ports	4
Max. PoE Power Budget	120W
PoE Power Pins	1/2(+),3/6(-)
Layer	L2
Switching Capacity	12Gbps
Forwarding Rate	8.928Mpps
Buffer Size	4.1 Mbits
ARP Table Size	1000
Flash Memory	16MB
SDRAM	256MB
MAC Address Table Size	8000
Max. Number of VLANs	4094
Dimensions (W x D x H)	85mm*132mm*165mm
Net Weight	1.39kg
Mean Time Between Failure (MTBF)	200000H
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	8
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
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
PoE Power Usage Alarm	Yes
IP Source Guard	Yes
Anti-ARP Spoofing	Yes
DHCP Snooping	Yes
DHCP Client	Yes

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AAA (Authentication, Authorization on, accounting)	No
IEEE 802.1X Authentication	Yes
PoE Watchdog	Yes
Digital Diagnostic Monitoring (DDM)	Yes
Number of ACEs	In-1200, Out-0
G.8032 (ERPS)	Yes
RADIUS	Yes
TACACS+	No
CPU Protection Policy (CPP)	Yes
MQTT	Yes
QoS	Yes
SON Priority	2560
Web Authentication	Yes
Layer 3 Features	
Static Routing	No
DHCP Server	No
Hardware Specifications	
Reset Button	Yes
Cable Hot-Swappable	Yes
Power Supply	Rated voltage range: 12-56V= Rated current:7A
Power Consumption	No PoE load:12W Full PoE load: 72W(Input: 12V-20V) 132W(Input: 21V-56V)
EEE	Yes
Port Surge Protection	Common Mode 6KV
Power Supply Surge Protection	Common Mode 4KV Differential mode 2KV
Acoustic Noise Level	<30dB (when the device works normally)

Operating Temperature	-40°C to +65°C (installed in a sealed cabinet) -40°C to +70°C (installed in a fume hood with a ventilation speed of at least 80LFM (Line Feet Minute)) -40°C to +75°C (installed in a fume hood with a ventilation speed of at least 200LFM (Line Feet Minute)) -40°C to +80°C (installed in a fume hood with a ventilation speed of at least 400LFM (Line Feet Minute))
Storage Temperature	-40-75° C
Operating Humidity	5% to 95% RH(noncondensing)
Storage Humidity	5% to 95% RH(noncondensing)
Electrostatic Discharge (ESD) Protection	Air Discharge: 8KV Contact Discharge: 6KV
Casing	Metal
Corrosion Protection	Salt Tolerance
Mounting	DIN-rail Mounting and Wallmount
Terminal Block	pin 12&56:Power1 and Power2 input pin 34:Alarm
LEDs	System: Power 1(Green) Power 2(Green) SYS(Green) Per RJ45 PoE+ Ports: PoE-in-Use(Orange) LINK/ACT(Green) Per SFP Interface: LINK/ACT(Green)
Operating Altitude (m)	-500-5000M
Certification	CE,FCC
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)