

RG-NIS2100-8GT2SFP-HP

10-Port Cloud Managed Industrial Switch, with 1 x PoE++ Port, 7 x PoE+ Ports, and 2 x SFP Uplink Ports



Highlights

- Industrial-grade features ensure stable operation between -40°C and +75°C
- IP40 protection against 1 mm solid particles
- 6kV surge protection against voltage spikes
- 90W PoE output: perfect for high-power device
- Instant ERPS configuration and rapid service failover ensure network stability
- Ruijie Cloud: easy remote management anytime, anywhere

Highlight Features

RG-NIS2100 Series Cloud Managed Industrial Switches

RG-NIS2100-8GT2SFP-HP
1 x PoE++ Port, 7 x PoE+ Ports,
and 2 x SFP Uplink Ports



RG-NIS2100-4GT2SFP-HP
1 x PoE++ Port, 3 x PoE+ Ports,
and 2 x SFP Uplink Ports

Industrial-Grade Features for Handling Harsh Environmental Challenges



Wide Temperature Range

Full Aluminum Casing Ensures a Wide Operating Temperature Range of -40°C to +75°C

IP40

IP40 Protection
Against 1 mm
Solid Particles



Gold-plated RJ45 Ports

Resist Salt Spray Corrosion

Aluminum Casing

Prevents Surface Damage

/ Highlight Features

Robust Shield Ensures Network Stability



6kV Surge Protection
Against Voltage Spikes



EMC Level 4
Against Electromagnetic Interference

90W

PoE Output
Perfect for
High-Power Device



Highlight Features

Small in Size, Ultimate in Convenience



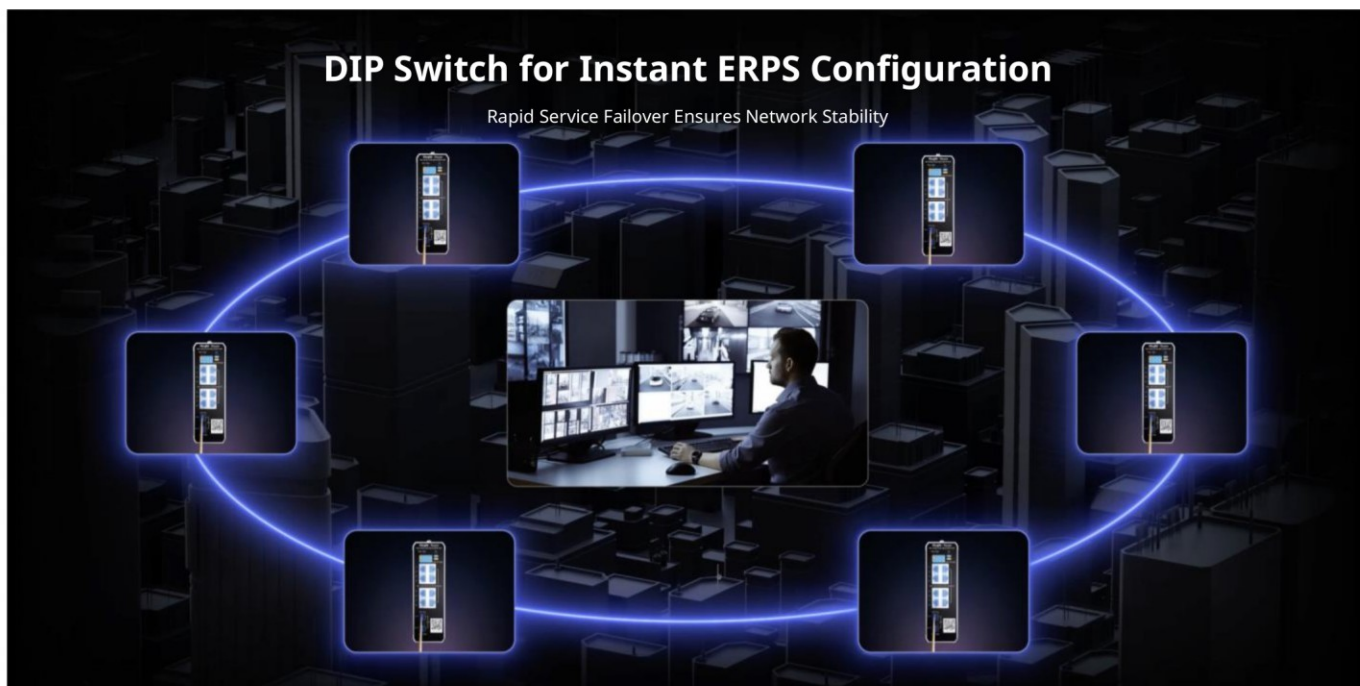
Compact design, perfectly fit into a waterproof outdoor box



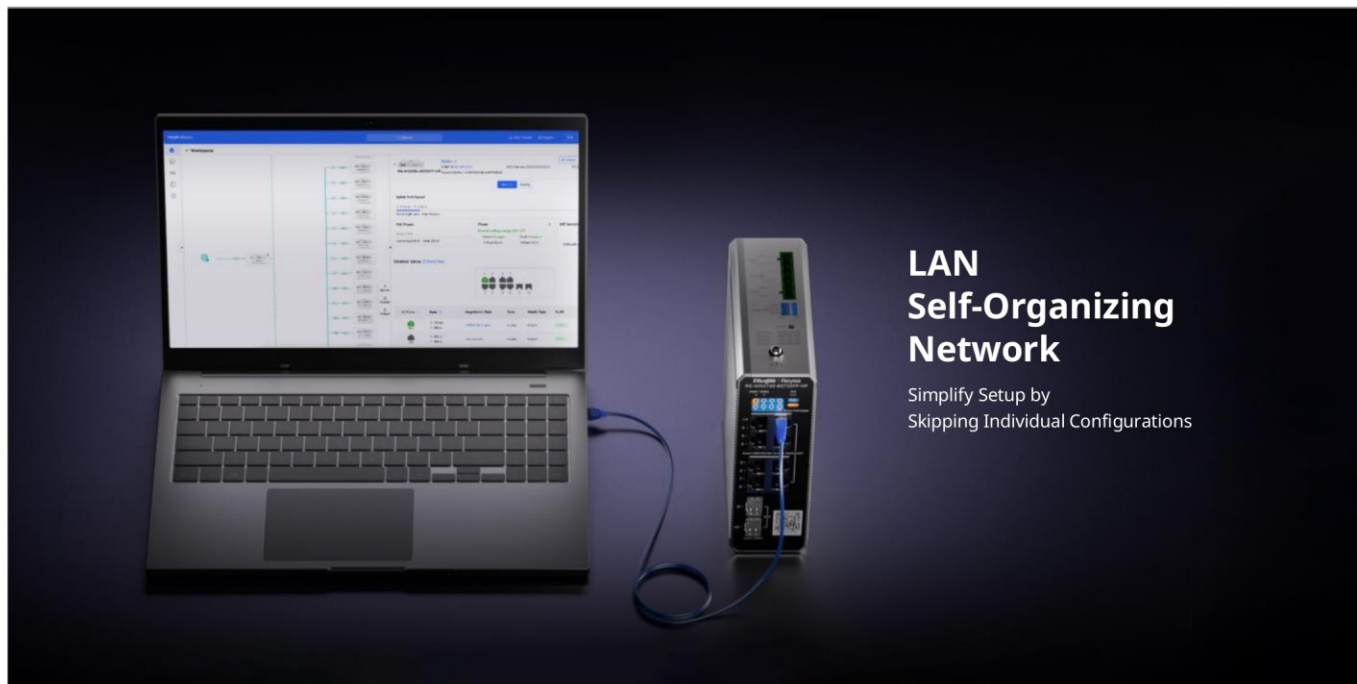
DIN rail mounting support for simplified installation

DIP Switch for Instant ERPS Configuration

Rapid Service Failover Ensures Network Stability

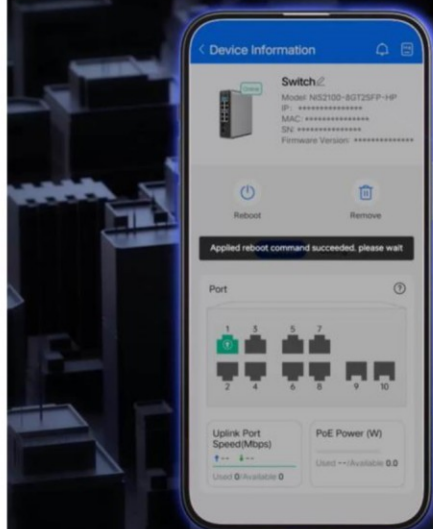


/ Highlight Features



Cloud, Make Your Business Easy

Easy Remote Management Anytime, Anywhere



/ Product Information

Model	RG-NIS2100-8GT2SFP-HP
Product Category	Layer 2

/ Hardware Specifications

Model	RG-NIS2100-8GT2SFP-HP
Product Information	
Warranty	5 years
Port Specifications	
Total number of RJ45 ports	8
Total number of optical ports	2
Number of 1GE SFP ports	2
Number of 10/100/1000BASE-T ports	8
Ultra-long-haul transmission	Yes (ports 5–8)
Reset button	1
DIP switch	ERPS mode: Enable ERPS ring network Isolation mode: Upper port and lower port isolation Extend mode: The rate of Ports 5 to 8 is reduced to 10 Mbps, but the maximum transmission distance can be up to 200 meters (Cat5e cables required) Alarm mode: Turn on power in-position detection alarm
Power Supply and Consumption	
PoE Out standard	PoE/PoE+/PoE++ (IEEE 802.3af/at/bt)
Number of PoE Out ports	8
Number of PoE/PoE+ Out ports	8
Number of PoE/PoE+/PoE++ Out ports	1
PoE budget	Default: 228 W MAX: 300 W (web reserved adjustable interface)

Hardware Specifications

Model	RG-NIS2100-8GT2SFP-HP
PoE power pins	Port 1: 1-2 (-), 3-6 (+), 4-5 (+), 7-8 (-) Ports 2-8: 1-2 (+), 3-6 (-)
Power input	DC input: - Rated voltage range: 46 V DC to 57 V DC - Rated current range: 7 A RG-NIS-PA240-48 (AC input): - 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 - Rated input current: 3.5 A Output: - Rated output voltage: 54 V DC - Maximum output current: 4.4 A RG-NIS-PA120-48 (AC input): - Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz - Maximum input voltage: 85 V AC to 264 V AC, 47 Hz to 63 Hz - Rated input current: 1.5 A Output: - Rated output voltage: 48 V DC - Maximum output current: 2.5 A
Maximum power consumption	12 W (with no PoE load) 312 W (with PoE full load)
Power supply	- DC power adapter - Power module
System Specifications	
CPU	MAC chip, single-core processor, 500 MHz clock frequency
Flash memory	8 MB
Forwarding rate	14.8 Mpps
Switching capacity	20 Gbps(bit/s)
Dimensions and Weight	
Casing	Metal
Product dimensions (W x D x H)	50 mm x 155 mm x 130 mm (1.97 in. x 6.10 in. x 5.12 in.)
Weight	0.79 kg (1.74 lbs) (without packaging materials) 1.10 kg (2.43 lbs) (with packaging materials)
Shipping weight	1.10 kg (2.43 lbs)

/ Hardware Specifications

Model	RG-NIS2100-8GT2SFP-HP
Environment and Reliability	
Fan	Fanless design
Cooling	Natural cooling
Mounting options	DIN rail mount/Wall
Hot swapping of cables	Hot swapping supported by the service port and power connector
MTBF	200,000 hours
Operating temperature	-40°C to +75°C (-40°F to +167°F)
Storage temperature	-40°C to +85°C (-40°F to +185°F)
Operating humidity	10% RH to 90% RH (non-condensing)
Storage humidity	5% RH to 95% RH (non-condensing)
Altitude	-500 m to +5,000 m (-1,640.42 ft. to +16,404.20 ft.)
Corrosion class	Salt Tolerance
ESD protection	Air discharge: 15 kV Contact discharge: 8 kV
Surge protection	Service port: ±6 kV for common mode Power connector: ±4 kV for common mode and ±2 kV for differential mode
Certification and Regulatory Compliance	
EMC	IEC/EN 61000-4-2 IEC/EN 61000-4-3 IEC/EN 61000-4-4 IEC/EN 61000-4-5 IEC/EN 61000-4-6 IEC/EN 61000-4-8
Safety compliance	EN 62638-1
Certification	CE, FCC

Software Specifications

Model	RG-NIS2100-8GT2SFP-HP
Authentication	
RADIUS	No
802.1X authentication	No
Basic Configurations	
PoE watchdog	Yes
Online upgrade	Yes
Ethernet Switching	
Maximum number of VLANs	16
Maximum number of MAC address entries	8000
Interface flow control	Yes
IEEE 802.1Q VLAN	Yes
VLAN configuration supported on LAN ports	Yes
LLDP	No
LLDP-MED	No
Static MAC address	Yes
Static aggregation	No
LACP	No
Inbound or outbound rate limiting based on interface traffic	Yes
Gateway Features	
802.1p priority-based traffic classification	No
DSCP priority-based traffic classification	No
Interface	

Software Specifications

Model	RG-NIS2100-8GT2SFP-HP
Jumbo frame length (MTU)	10000 bytes
EEE	Yes
Cable test	Yes
IP Service	
ARP	No
IPv4 ping	No
IPv4 traceroute	No
ICMPv6	No
IPv6 ping	No
IPv6 traceroute	No
DNS client	Yes
DHCP client	Yes
Multicast	
IGMPv1 snooping	No
IGMPv2 snooping	No
Basic IGMPv3 snooping	No
Full IGMPv3 snooping	No
IGMP filtering	No
IGMPv1, v2, and v3	No
Network Management and Monitoring	
Mirroring	Yes
HTTP login	Yes
HTTPS login	No
SON	Yes

Software Specifications

Model	RG-NIS2100-8GT2SFP-HP
Syslog	No
Camera detection	Yes
eWeb management	Yes
Ruijie Cloud management	Yes
Ruijie Reyee App management	Yes
SNMPv1, v2c, and v3	No
Reliability	
Load balancing	No
ERPS	Yes
Security	
Port isolation	Yes
Broadcast storm control	Yes
Multicast storm control	Yes
Unknown unicast storm control	Yes
DHCP snooping	Yes
Standard ACL	No
Extended MAC ACL	No
Extended IP ACL	No
IPv6 ACL	No
ARP anti-spoofing	No
CPU Protection Policy	Yes
System Performance Capacity	
Recommended camera limit	200W H265: 90 400W H265: 45

Package Contents

Model	RG-NIS2100-8GT2SFP-HP
Device	
Device	1
Accessories	
Screw	4 X M3 x 5 mm cross recessed countersunk head screws
Rack-mount bracket	2
Manual	
User Manual	1
Warranty Card	1

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