

# RG-NIS2100-4GT2SFP-HP

## 6-Port Cloud Managed Industrial Switch, with 1 x PoE+ + Port, 3 x PoE+ Ports, and 2 x SFP Uplink Ports



### Highlights

- Industrial-grade features ensure stable operation between  $-40^{\circ}\text{C}$  and  $+75^{\circ}\text{C}$
- 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



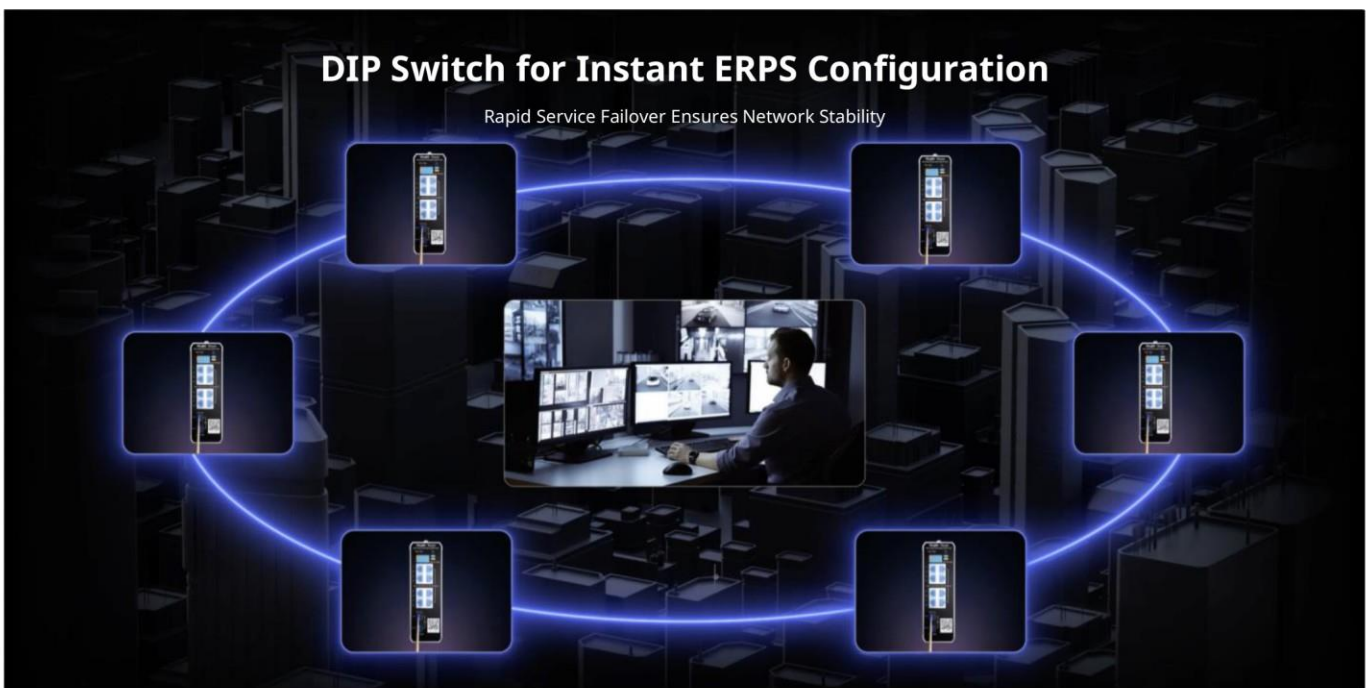
Compact design, perfectly fit into a waterproof outdoor box



DIN rail mounting support for simplified installation

## DIP Switch for Instant ERPS Configuration

Rapid Service Failover Ensures Network Stability

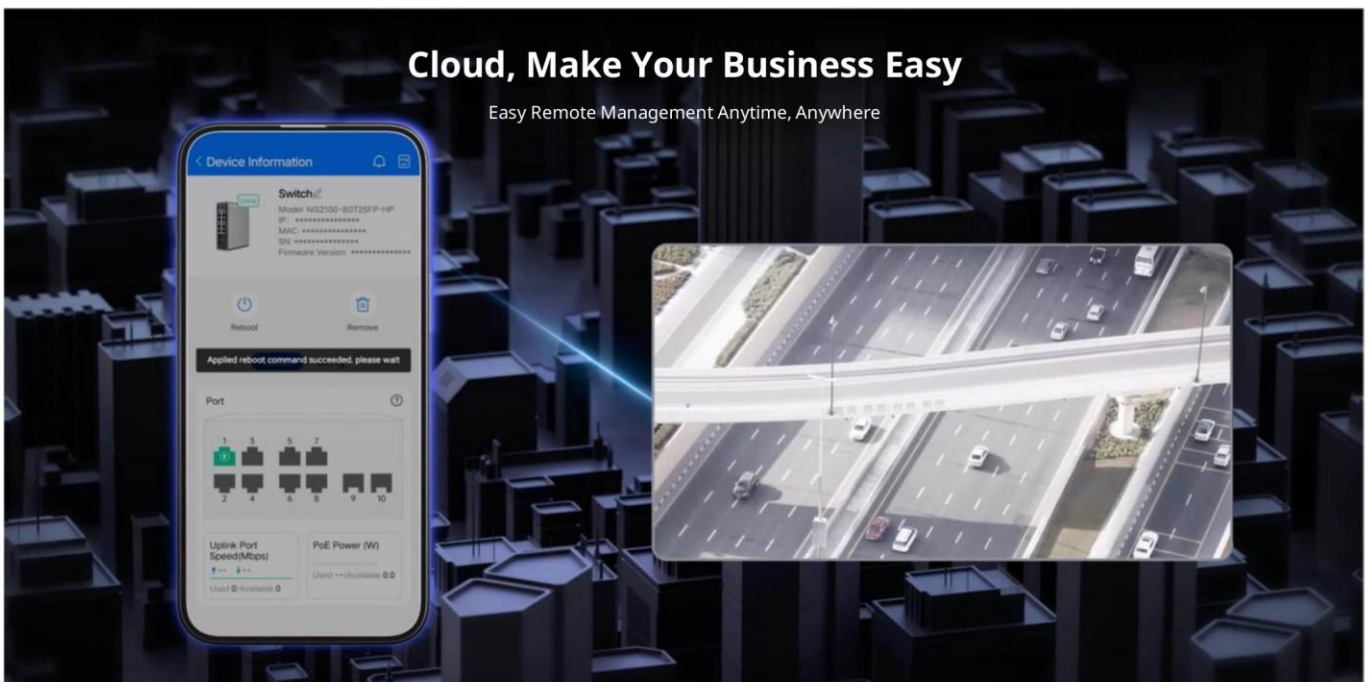


# Highlight Features



## LAN Self-Organizing Network

Simplify Setup by  
Skipping Individual Configurations



## Cloud, Make Your Business Easy

Easy Remote Management Anytime, Anywhere

## Product Information

<b>Model</b>	<b>RG-NIS2100-4GT2SFP-HP</b>
<b>Product Category</b>	Layer 2

## Hardware Specifications

<b>Model</b>	<b>RG-NIS2100-4GT2SFP-HP</b>
<b>Product Information</b>	
<b>Warranty</b>	5 years
<b>Port Specifications</b>	
<b>Total number of RJ45 ports</b>	4
<b>Total number of optical ports</b>	2
<b>Number of 1GE SFP ports</b>	2
<b>Number of 10/100/1000BASE-T ports</b>	4
<b>Ultra-long-haul transmission</b>	Yes (ports 3–4)
<b>Reset button</b>	1
<b>DIP switch</b>	ERPS mode: Enable ERPS ring network Isolation mode: Upper port and lower port isolation Extend mode: The rate of Ports 3 to 4 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
<b>Power Supply and Consumption</b>	
<b>PoE Out standard</b>	PoE/PoE+/PoE++ (IEEE 802.3af/at/bt)
<b>Number of PoE Out ports</b>	4
<b>Number of PoE/PoE+ Out ports</b>	4
<b>Number of PoE/PoE+/PoE++ Out ports</b>	1
<b>PoE budget</b>	Default: 108 W MAX: 180 W (web reserved adjustable interface)

# Hardware Specifications

Model	RG-NIS2100-4GT2SFP-HP
PoE power pins	Port 1: 1–2 (+), 3–6 (-), 4–5 (+), 7–8(-) Ports 2–4: 1–2 (+), 3–6 (-)
Power input	<p>DC input:</p> <ul style="list-style-type: none"> <li>Rated voltage range: 46 V DC to 57 V DC</li> <li>Rated current range: 4.2 A</li> </ul> <p>RG-NIS-PA240-54 (AC input):</p> <ul style="list-style-type: none"> <li>Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz</li> <li>Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz</li> <li>Rated input current: 3.5 A</li> </ul> <p>RG-NIS-PA120-54 (AC input):</p> <ul style="list-style-type: none"> <li>Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz</li> <li>Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz</li> <li>Rated input current: 4 A</li> </ul>
Maximum power consumption	12 W (with no PoE load) 192 W (with PoE full load)
Power output	<ul style="list-style-type: none"> <li>RG-NIS-PA240-54</li> </ul> <p>90 V AC to 264 V AC: 54 V DC (output voltage), 4.4 A (rated output current)</p> <ul style="list-style-type: none"> <li>RG-NIS-PA120-54</li> </ul> <p>90 V AC to 264 V AC: 54 V DC (output voltage), 2.2 A (rated output current)</p>
Power supply	<ul style="list-style-type: none"> <li>DC power adapter</li> <li>Power module</li> </ul>
<b>System Specifications</b>	
Flash memory	8 MB
Forwarding rate	8.9 Mpps
Switching capacity	12 Gbps(bit/s)
<b>Dimensions and Weight</b>	
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	0.77 kg (1.70 lbs) (without packaging materials) 1.08 kg (2.38 lbs) (with packaging materials)
Shipping weight	1.08 kg (2.38 lbs)

# Hardware Specifications

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

# Software Specifications

Model	RG-NIS2100-4GT2SFP-HP
<b>Authentication</b>	
RADIUS	No
802.1X authentication	No
<b>Basic Configurations</b>	
PoE watchdog	Yes
Uninterruptible power supply upon warm start	No
Online upgrade	Yes
<b>Ethernet Switching</b>	
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
<b>Gateway Features</b>	
802.1p priority-based traffic classification	No
DSCP priority-based traffic classification	No

# Software Specifications

Model	RG-NIS2100-4GT2SFP-HP
<b>Interface</b>	
Jumbo frame length (MTU)	10000 bytes
EEE	Yes
Cable test	Yes
<b>IP Service</b>	
ARP	No
IPv4 ping	No
IPv4 traceroute	No
ICMPv6	No
IPv6 ping	No
IPv6 traceroute	No
DNS client	Yes
DHCP client	Yes
<b>Multicast</b>	
IGMPv1 snooping	No
IGMPv2 snooping	No
Basic IGMPv3 snooping	No
Full IGMPv3 snooping	No
IGMP filtering	No
IGMPv1, v2, and v3	No
<b>Network Management and Monitoring</b>	
Mirroring	Yes
HTTP login	Yes
HTTPS login	No

# Software Specifications

Model	RG-NIS2100-4GT2SFP-HP
SON	Yes
Syslog	No
Camera detection	Yes
eWeb management	Yes
Ruijie Cloud management	Yes
Ruijie Reeye App management	Yes
SNMPv1, v2c, and v3	No
<b>Reliability</b>	
Load balancing	No
ERPS	Yes
<b>Security</b>	
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
<b>System Performance Capacity</b>	
Recommended camera limit	200W H265: 70 400W H265: 35



## Package Contents

<b>Model</b>	<b>RG-NIS2100-4GT2SFP-HP</b>
<b>Device</b>	
<b>Device</b>	1
<b>Accessories</b>	
<b>Screw</b>	4 X M3 x 6 mm cross recessed countersunk head screws
<b>Rack-mount bracket</b>	2
<b>Manual</b>	
<b>User Manual</b>	1
<b>Warranty Card</b>	1

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