

# RG-NIS2100 Series Cloud Managed Industrial Switches

DATASHEET

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## 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

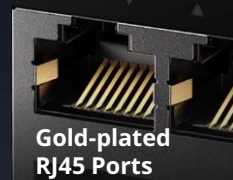
### IP40

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



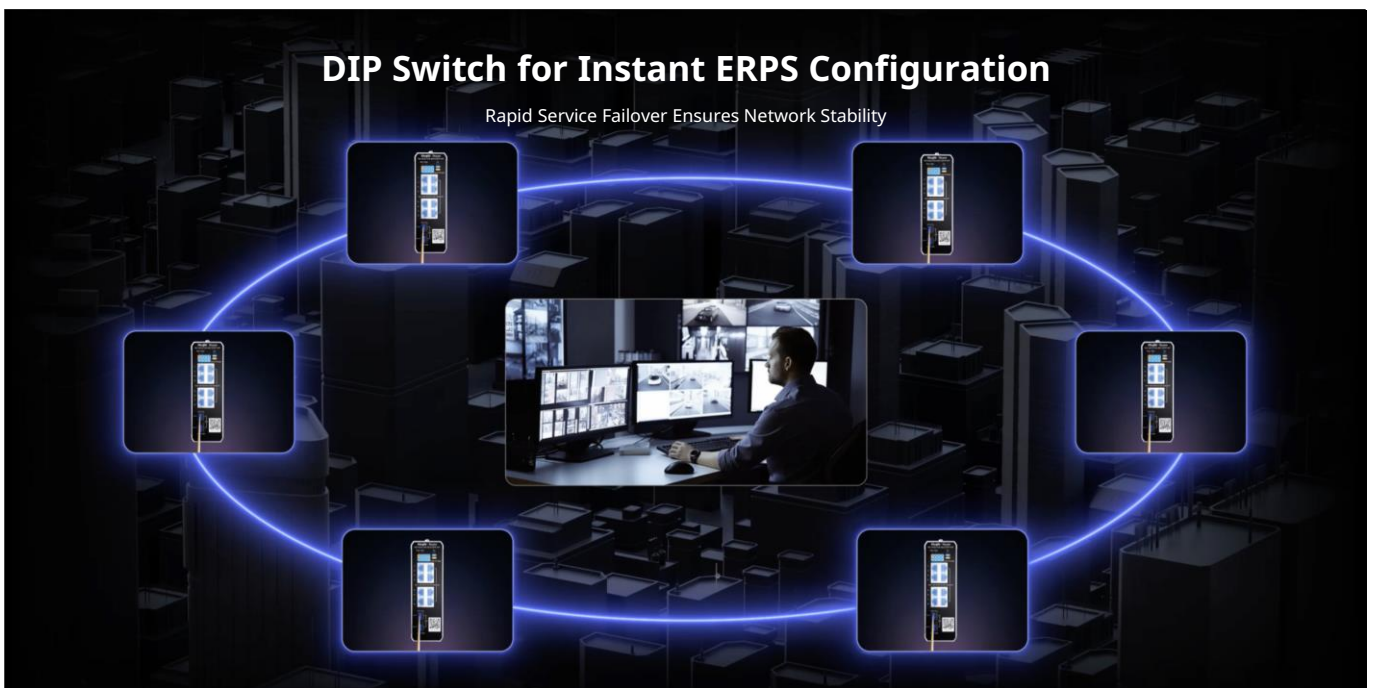
Compact design, perfectly fit into a waterproof outdoor box



DIN rail mounting support for simplified installation

## DIP Switch for Instant ERPS Configuration

Rapid Service Failover Ensures Network Stability

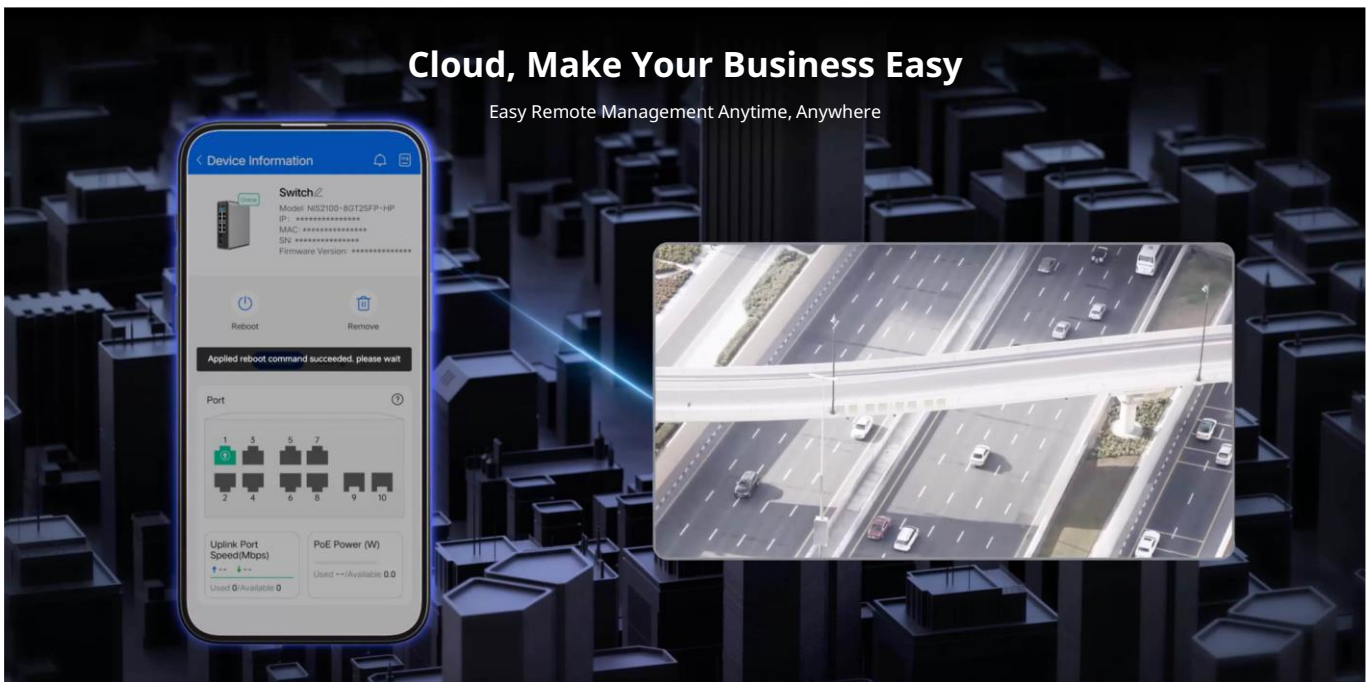


# Highlight Features



## LAN Self-Organizing Network

Simplify Setup by Skipping Individual Configurations



## Cloud, Make Your Business Easy

Easy Remote Management Anytime, Anywhere

# Specifications

Specification	RG-NIS2100-8GT2SFP-HP	RG-NIS2100-4GT2SFP-HP
<b>Basic</b>		
Total Number of RJ45 Ports	8	4
Total Number of Optical Ports	2	2
Number of 1 Gbps Optical Ports (SFP)	2	2
Number of 10/100/1000BASE-T Ports	8	4
Number of PoE/PoE+ Ports	8	4
Number of PoE/PoE+/PoE++ Ports	1	1
Max. PoE Power Budget	default: 228W web reserved adjustable interface MAX:300W	default: 108W web reserved adjustable interface MAX:180W
PoE Power Pins	Port 1 :1 2- 3 6+ 4 5 + 7 8- Ports 2-8:1 2+ 3 6-	Port 1 :1 2- 3 6+ 4 5 + 7 8- Ports 2-4:1 2+ 3 6-
Extend Mode (Long-Range Transmission)	support(port 5-8)	support(port 3-4)
Layer	L2	L2
Switching Capacity	20Gbps	12Gbps
Forwarding Rate	14.8Mpps	8.9Mpps
Buffer Size	4.1Mbits	4.1Mbits
Flash Memory	8MB	8MB
MAC Address Table Size	8K	8K
Max. Number of VLANs	16	16
Dimensions (W x D x H)	50*155*130mm	50*155*130mm
Net Weight	0.79kg	0.77kg
Mean Time Between Failure (MTBF)	>200K	>200K

Specification	RG-NIS2100-8GT2SFP-HP	RG-NIS2100-4GT2SFP-HP
Safety Compliance	EN 62638-1	EN 62638-1
Warranty	5 Years	5 Years
<b>Layer2 features</b>		
Jumbo Frame Length (MTU)	10000 Bytes	10000 Bytes
Flow Control	Yes	Yes
Port Isolation / Protected Port	Yes	Yes
Unknown Unicast Storm Control	Yes	Yes
Broadcast Storm Control	Yes	Yes
Multicast Storm Control	Yes	Yes
SPAN	Yes	Yes
VLAN Range	1-4094	1-4094
Port-based VLAN	Yes	Yes
Cable Test	Yes	Yes
Port-Level Rate Limiting (Ingress/Egress)	Yes	Yes
DNS Client	Yes	Yes
Web Management	Yes	Yes
HTTP	Yes	Yes
Ruijie Cloud Management	Yes	Yes
Ruijie Reyee App Management	Yes	Yes
IP-based Self-Organizing Network (SON)	Yes	Yes
Camera Detection	Yes	Yes
Loop Prevention	Yes	Yes
PoE Power Usage Alarm	Yes	Yes
DHCP Snooping	Yes	Yes

Specification	RG-NIS2100-8GT2SFP-HP	RG-NIS2100-4GT2SFP-HP
DHCP Client	Yes	Yes
PoE Watchdog	Yes	Yes
G.8032 (ERPS)	Yes	Yes
<b>Hardware Specifications</b>		
Reset Button	Yes	Yes
DIP Switch	<p>ERPS mode: Enable ERPS ring network</p> <p>Isolation mode: Upper port and lower port isolation</p> <p>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 (Cate5e cables required)</p> <p>Alarm mode: Turn on power in-position detection alarm</p>	<p>ERPS mode: Enable ERPS ring network</p> <p>Isolation mode: Upper port and lower port isolation</p> <p>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 (Cate5e cables required)</p> <p>Alarm mode: Turn on power in-position detection alarm</p>
Cable Hot-Swappable	Yes	Yes
Power Supply	<p>DC input</p> <p>Rated voltage range: 46-57V DC</p> <p>Rated current range: 7A</p>	<p>DC input</p> <p>Rated voltage range: 46-57V DC</p> <p>Rated current range: 4.2A</p>
Power Consumption	<p>Less than 12W with no PoE load</p> <p>Less than 312W with PoE full load</p>	<p>Less than 12W with no PoE load</p> <p>Less than 192W with PoE full load</p>
Port Surge Protection	Common Mode 6kV	Common Mode 6kV
Power Supply Surge Protection	<p>Common Mode: 4kV</p> <p>Differential mode 2kV</p>	<p>Common Mode: 4kV</p> <p>Differential mode 2kV</p>
Acoustic Noise Level	Fanless	Fanless
Operating Temperature	-40-75°C	-40-75°C
Storage Temperature	-40~85°C	-40~85°C
Operating Humidity	10% to 90% RH(non-condensing)	10% to 90% RH(non-condensing)
Storage Humidity	5% to 95% RH(non-condensing)	5% to 95% RH(non-condensing)
Electrostatic Discharge (ESD) Protection	<p>Air Discharge: 15kV</p> <p>Contact Discharge: 8kV</p>	<p>Air Discharge: 15kV</p> <p>Contact Discharge: 8kV</p>
Casing	Aluminum	Aluminum



Specification	RG-NIS2100-8GT2SFP-HP	RG-NIS2100-4GT2SFP-HP
<b>Corrosion Protection</b>	Salt Tolerance	Salt Tolerance
<b>Mounting</b>	DIN-rail Mounting Wall-mount	DIN-rail Mounting Wall-mount
<b>Terminal Block</b>	pin 12&56:Power1 and Power2 input pin 34:Alarm	pin 12&56:Power1 and Power2 input pin 34:Alarm
<b>LEDs</b>	System: Power 1(Green) Power 2(Green) SYS(Green) Per RJ45 Ports: LINK/ACT(Green) Per SFP Interface: LINK/ACT(Green) Per PoE Interface: SUPPLY/Over Load (Green)	System: Power 1(Green) Power 2(Green) SYS(Green) Per RJ45 Ports: LINK/ACT(Green) Per SFP Interface: LINK/ACT(Green) Per PoE Interface: SUPPLY/Over Load (Green)
<b>Operating Altitude (m)</b>	-500~5000M	-500~5000M
<b>Certification</b>	CE	CE
<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	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

## Package Contents

Model	RG-NIS2100-8GT2SFP-HP	RG-NIS2100-4GT2SFP-HP
Mounting Brackets	2	2
Screws	M3 Screw*4	M3 Screw*4
User Manual	1	1
Power Supply Options	DC power supply	DC power supply
Warranty Card	1	1
Gross Weight	1.10kg	1.08kg
Package Dimensions (W x D x H)	500*430*195mm	500*430*195mm

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