

# 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

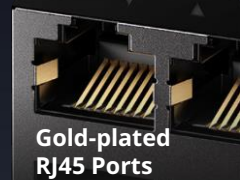
### IP40

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



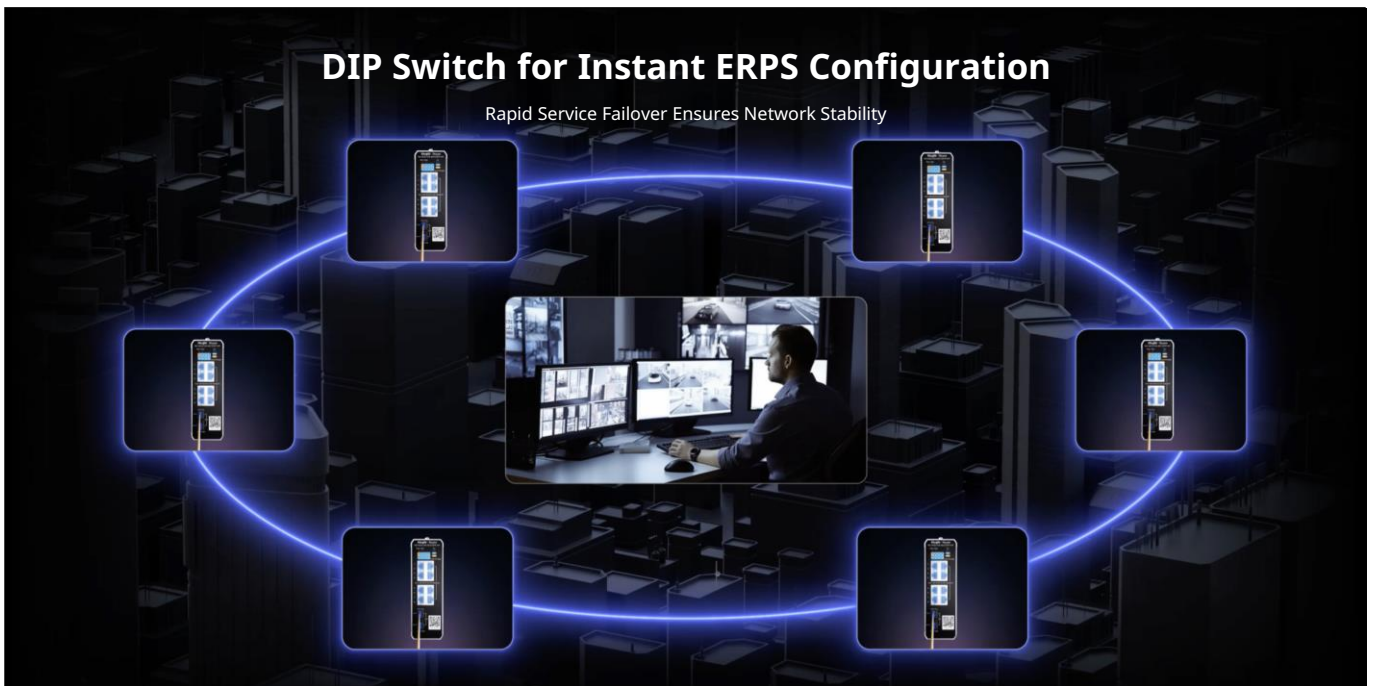
Compact design, perfectly fit into a waterproof outdoor box



DIN rail mounting support for simplified installation

## DIP Switch for Instant ERPS Configuration

Rapid Service Failover Ensures Network Stability

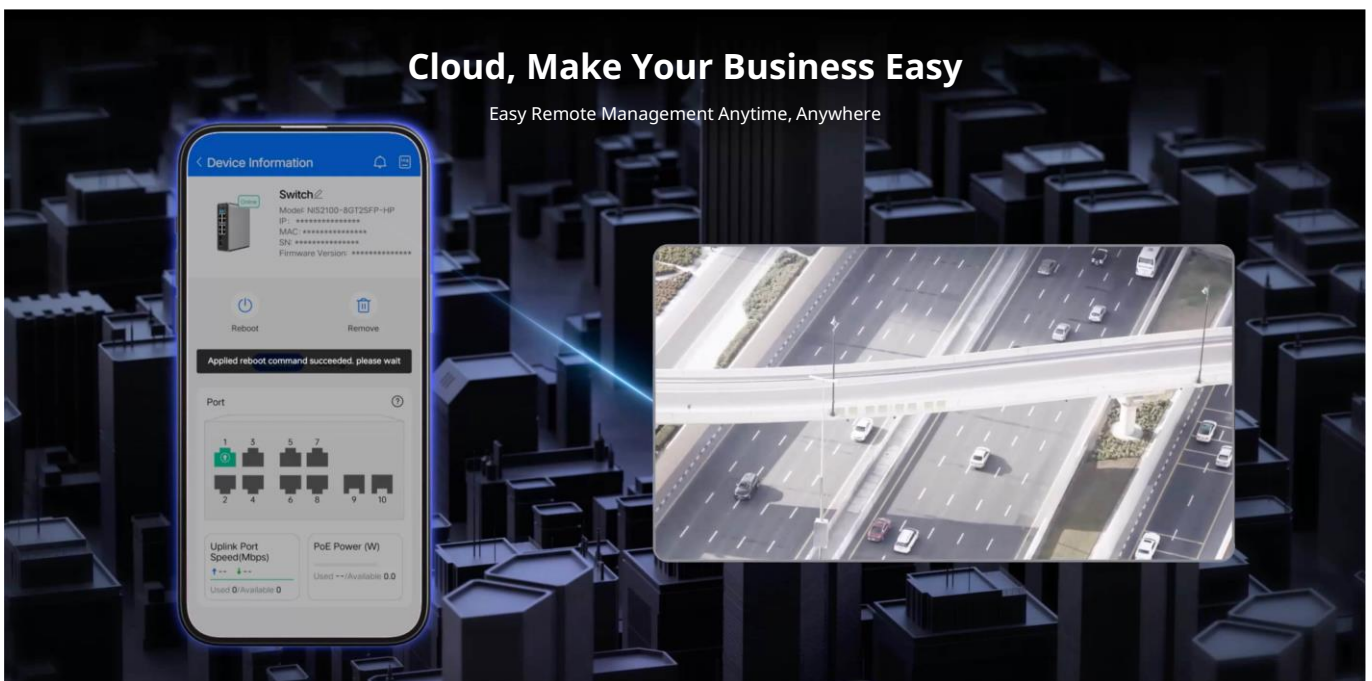


# Highlight Features



## LAN Self-Organizing Network

Simplify Setup by  
Skipping Individual Configurations



## Cloud, Make Your Business Easy

Easy Remote Management Anytime, Anywhere

# Specifications

Specifications		RG-NIS2100-8GT2SFP-HP	RG-NIS2100-4GT2SFP-HP
<b>Hardware Specifications</b>			
<b>Port</b>	Total Number of RJ45 Ports	8	4
	Total Number of Optical Ports	2	2
	Number of 1GE SFP ports	2	2
	Number of 1GE RJ45 ports	8	4
<b>POE</b>	Number of PoE in ports	8	4
	Number of PoE/PoE+ out ports	8	4
	Number of PoE/PoE+/PoE++ out ports	1	1
	PoE 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- Port 2-8:1 2+ 3 6-	Port 1 :1 2- 3 6+ 4 5 + 7 8- Port 2-4:1 2+ 3 6-
<b>System Specifications</b>	Recommended camera limit	200W H265:90 400W H265:45	200W H265:70 400W H265:35
	Forwarding rate	14.8Mpps	8.9Mpps
	Switching capacity	20Gbps	12Gbps
	Maximum number of VLANs	16	16
	Maximum number of MAC address entries	8K	8K
<b>Power</b>	Power input	DC input Rated voltage range: 46-57V DC Rated current range: 7A	DC input Rated voltage range: 46-57V DC Rated current range: 4.2A
	Maximum power consumption	Less than 12W with no PoE load Less than 312W with PoE full load	Less than 12W with no PoE load Less than 192W with PoE full load
	Input power supply	DC power supply	DC power supply
<b>FAN</b>	Fan	Fanless	Fanless
	Heat dissipation	Less than 41.04 BTU/hr(220V/50Hz) with no PoE load Less than 1067.04	Less than 41.04 BTU/hr(220V/50Hz) with no PoE load Less than 656.64 BTU/hr(220V/50Hz) with PoE full load

Specifications		RG-NIS2100-8GT2SFP-HP	RG-NIS2100-4GT2SFP-HP
		BTU/hr(220V/50Hz) with PoE full load	
	Acoustic noise	Fanless	Fanless
<b>Button</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>
<b>EMC</b>	EMC	<p>IEC/EN 61000-4-2</p> <p>IEC/EN 61000-4-3</p> <p>IEC/EN 61000-4-4</p> <p>IEC/EN 61000-4-5</p> <p>IEC/EN 61000-4-6</p> <p>IEC/EN 61000-4-8</p>	<p>IEC/EN 61000-4-2</p> <p>IEC/EN 61000-4-3</p> <p>IEC/EN 61000-4-4</p> <p>IEC/EN 61000-4-5</p> <p>IEC/EN 61000-4-6</p> <p>IEC/EN 61000-4-8</p>
<b>Safety Compliance</b>	Safety compliance	EN 62638-1	EN 62638-1
<b>Certification</b>	CE, FCC	CE	CE
<b>Mounting</b>	Mounting	DIN-rail Mounting Wall-mount	DIN-rail Mounting Wall-mount
<b>Casing</b>	Casing	Metal	Metal
<b>Cable Hot-Swappable</b>	Hot swapping of cables	Supported by all ports	Supported by all ports
<b>Mean Time Between Failure (MTBF)</b>	MTBF	>200K	>200K
<b>Warranty</b>	Warranty Card	5	5
<b>EEE</b>	EEE	Yes	Yes
<b>Environment and Reliability</b>	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)
	Operating altitude	-500~5000M	-500~5000M

Specifications		RG-NIS2100-8GT2SFP-HP	RG-NIS2100-4GT2SFP-HP
	Corrosion class	Salt Tolerance	
	ESD protection	Air Discharge: 15kV Contact Discharge: 8kV	Air Discharge: 15kV Contact Discharge: 8kV
	Surge protection	Common Mode 6kV	
	Surge protection	Common Mode: 4kV Differential mode 2kV	Common Mode: 4kV Differential mode 2kV
<b>Package Contents</b>	Dimensions (W x D x H)	50*155*130mm	50*155*130mm
	Weight	0.79KG	0.77KG
	Shipping weight	1.10KG	1.08KG
	Rack-mount bracket	2	2
	Screw	M3 Screw*4	M3 Screw*4
	User Manual	1	1
	Input power supply	DC power supply	DC power supply
	Warranty Card	1	1
<b>L2</b>			
<b>Jumbo Frame</b>	Jumbo frame length (MTU)	10000 Bytes	10000 Bytes
<b>port</b>	Port flow control	Yes	Yes
	PoE watchdog	Yes	Yes
	Port isolation	Yes	Yes
	EEE	Yes	Yes
	Ultra-long-haul transmission	Yes	Yes
	Cable Test	Yes	Yes
<b>VLAN</b>	IEEE802.1Q VLAN	Yes	Yes
	Port-based VLAN	Yes	Yes
<b>G.8032 (ERPS)</b>	ERPS	Yes	Yes
<b>SPAN</b>	Port mirroring	Yes	Yes
	Mirroring	Yes	Yes
<b>Mac Address</b>	Static MAC address	Yes	Yes
<b>Storm Suppression</b>	Broadcast storm control	Yes	Yes
	Multicast storm control	Yes	Yes
	Unknown unicast storm control	Yes	Yes



Specifications		RG-NIS2100-8GT2SFP-HP	RG-NIS2100-4GT2SFP-HP
<b>L3</b>			
<b>DNS</b>	DNS client	Yes	Yes
<b>DHCP</b>	DHCP snooping	Yes	Yes
	DHCP client	Yes	Yes
<b>High Features</b>			
<b>QoS</b>	Interface-based rate limiting (ingress/egress)	Yes	Yes
<b>Online Upgrade</b>	Online Upgrade	Yes	Yes
<b>Self-Organizing Network</b>	SON	Yes	Yes
<b>syslog</b>	System log	Yes	Yes
<b>ALARM</b>	Camera detection	Yes	Yes
	Loop alarm	Yes	Yes
	PoE power overload	Yes	Yes
<b>Management Features</b>			
<b>Web Management</b>	eWeb	Yes	Yes
<b>MACC</b>	Ruijie Cloud	Yes	Yes
<b>APP</b>	Ruijie Reyee App	Yes	Yes

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 **Redefine your easy network**

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