Ruijie | Reyee

RG-NIS2100 Series
Cloud Managed Industrial Switches

DATASHEET **Explore More ▶**

Highlights

- Industrial-Grade Features Ensure Stable Operation Between -40℃ and +75℃

- 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

-40°C   75°C

IP40
IP40 Protection Against 1 mm Solid Particles

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

Gold-plated RJ45 Ports
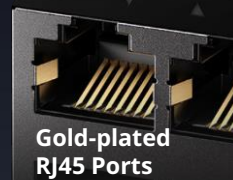Resist Salt Spray Corrosion

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
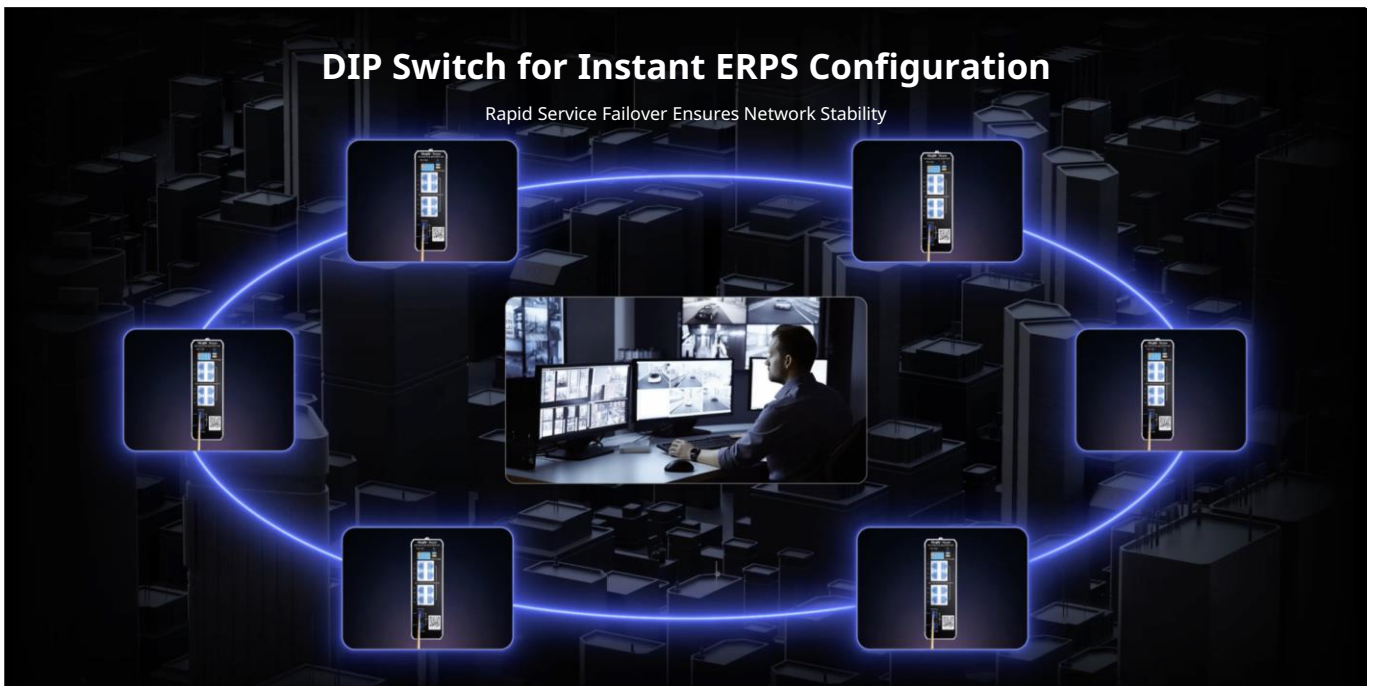
Small in Size, Ultimate in Convenience

Compact design, perfectly fit into a waterproof outdoor box

DIN rail mounting support for simplified installation

DIP Switch for Instant ERPS Configuration

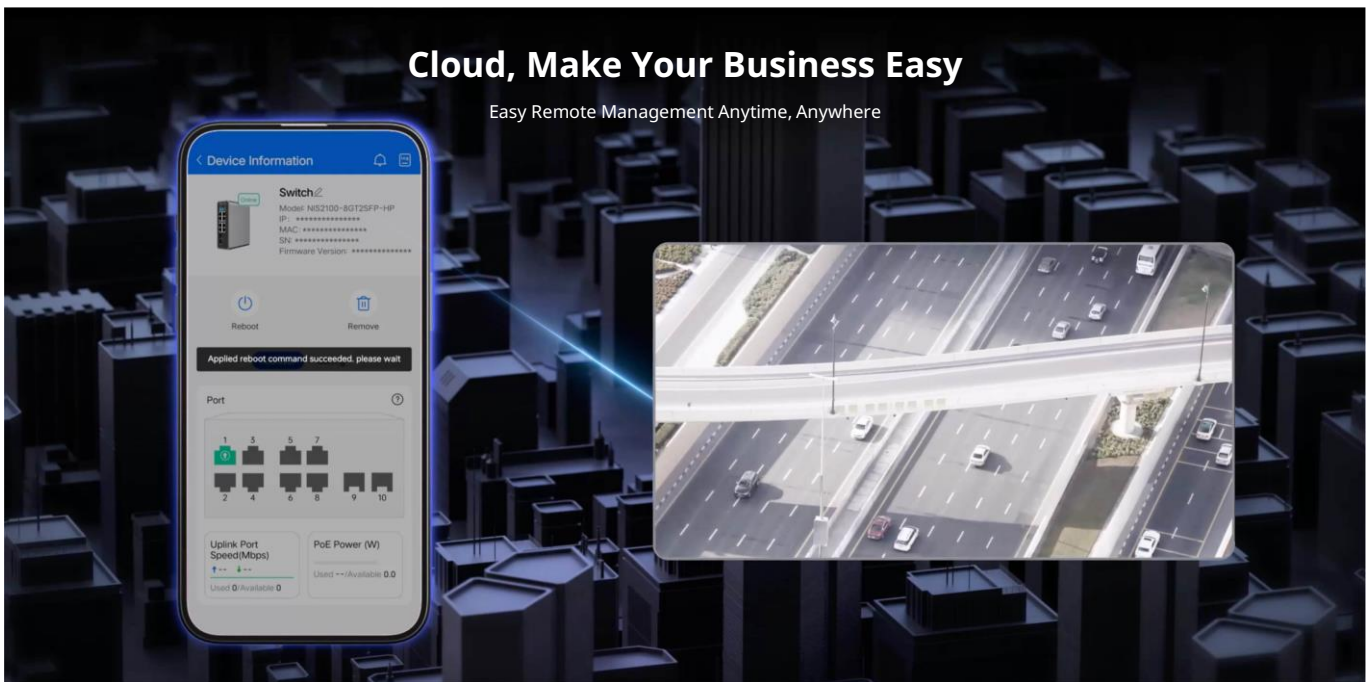Rapid Service Failover Ensures Network Stability

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
Basic		
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
Layer2 features		
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
Hardware Specifications		
Reset Button	Yes	Yes
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 (Cate5e cables required) Alarm mode：Turn on power in-position detection alarm	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 (Cate5e cables required) Alarm mode：Turn on power in-position detection alarm
Cable Hot-Swappable	Yes	Yes
Power Supply	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
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
Port Surge Protection	Common Mode 6kV	Common Mode 6kV
Power Supply Surge Protection	Common Mode：4kV Differential mode 2kV	Common Mode：4kV Differential mode 2kV
Acoustic Noise Level	Fanless	Fanless
Operating Temperature	-40-75℃	-40-75℃
Storage Temperature	-40~85℃	-40~85℃
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	Air Discharge: 15kV Contact Discharge: 8kV	Air Discharge: 15kV Contact Discharge: 8kV
Casing	Aluminum	Aluminum

Specification	RG-NIS2100-8GT2SFP-HP	RG-NIS2100-4GT2SFP-HP
Corrosion Protection	Salt Tolerance	Salt Tolerance
Mounting	DIN-rail Mounting Wall-mount	DIN-rail Mounting Wall-mount
Terminal Block	pin 12&56:Power1 and Power2 input pin 34:Alarm	pin 12&56:Power1 and Power2 input pin 34:Alarm
LEDs	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)
Operating Altitude (m)	-500~5000M	-500~5000M
Certification	CE	CE
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	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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Redefine your easy network

Ruijie Networks Co., Ltd.
Official Website: https://Reyee.Ruijie.com