

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

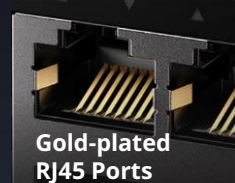
IP40

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



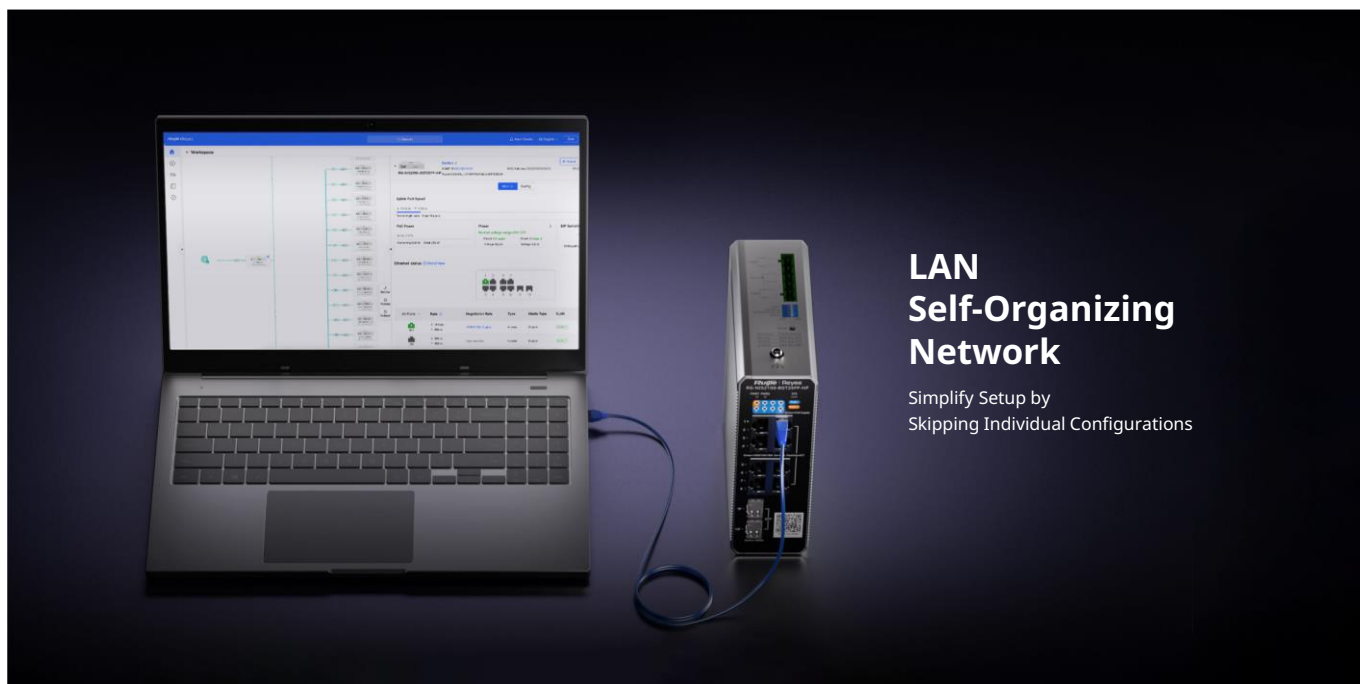
DIN rail mounting support for simplified installation

DIP Switch for Instant ERPS Configuration

Rapid Service Failover Ensures Network Stability

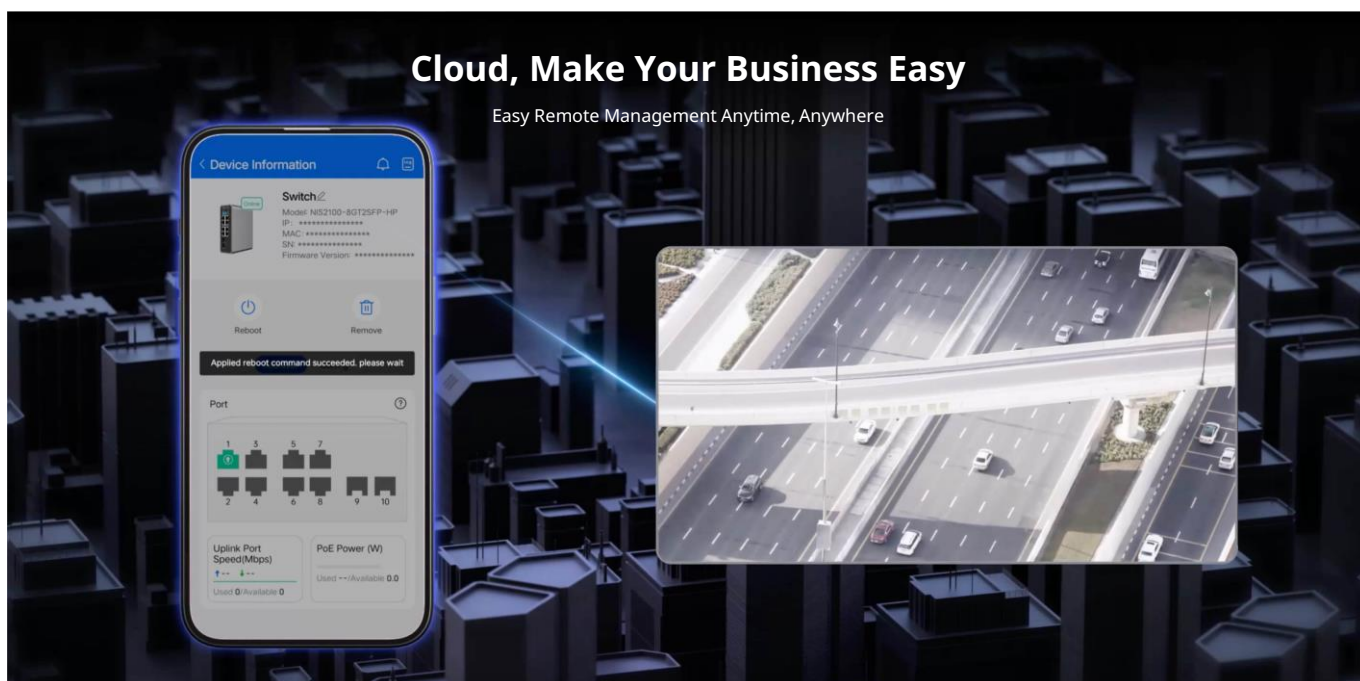


Highlight Features



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
Hardware Specifications			
Port	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
POE	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-
System Specifications	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
Power	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
FAN	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
Button	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
EMC	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
Safety Compliance	Safety compliance	EN 62638-1	EN 62638-1
Certification	CE, FCC	CE	CE
Mounting	Mounting	DIN-rail Mounting Wall-mount	DIN-rail Mounting Wall-mount
Casing	Casing	Metal	Metal
Cable Hot-Swappable	Hot swapping of cables	Supported by all ports	Supported by all ports
Mean Time Between Failure (MTBF)	MTBF	>200K	>200K
Warranty	Warranty Card	5	5
EEE	EEE	Yes	Yes
Environment and Reliability	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)
	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
Package Contents	Dimensions (W x D x H)	50*155*130mm	
	Weight	0.79KG	0.77KG
	Shipping weight	1.10KG	
	Rack-mount bracket	2	2
	Screw	M3 Screw*4	
	User Manual	1	1
	Input power supply	DC power supply	
	Warranty Card	1	1
L2			
Jumbo Frame	Jumbo frame length (MTU)	10000 Bytes	
port	Port flow control	Yes	
	PoE watchdog	Yes	
	Port isolation	Yes	
	EEE	Yes	
	Ultra-long-haul transmission	Yes	
	Cable Test	Yes	
VLAN	IEEE802.1Q VLAN	Yes	
	Port-based VLAN	Yes	
G.8032 (ERPS)	ERPS	Yes	
SPAN	Port mirroring	Yes	
	Mirroring	Yes	
Mac Address	Static MAC address	Yes	
Storm Suppression	Broadcast storm control	Yes	
	Multicast storm control	Yes	
	Unknown unicast storm control	Yes	

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

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 **R**edefine **y**our **e**asy **n**etwork

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