

**ew Member
Industrial Swit**



RG-NIS2

Industrial Switches



Industrial Switch Family

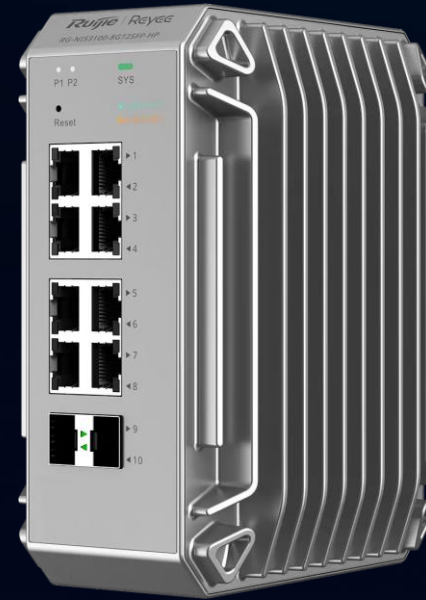


RG-NIS2100-
4GT2SFP-HP

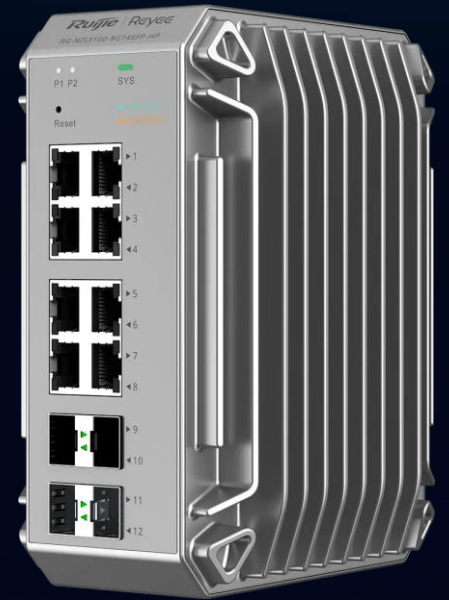
RG-NIS2100-
8GT2SFP-HP



RG-NIS3100-
4GT2SFP-HP



RG-NIS3100-
8GT2SFP-HP



RG-NIS3100-
8GT4SFP-HP



Features

3 × PoE+ Ports

1 × PoE++ Port

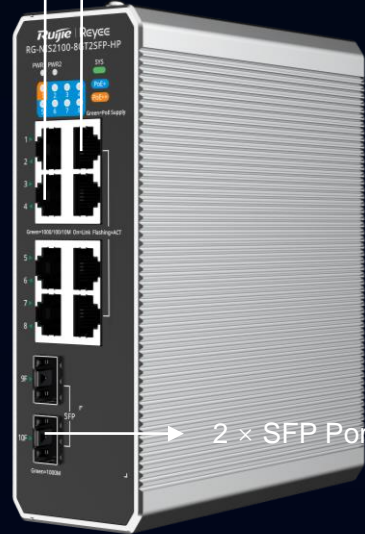


2 × SFP Ports

RG-NIS2100-4GT2SFP-HP

7 × PoE+ Ports

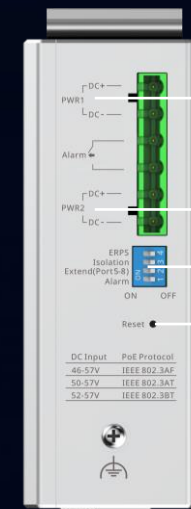
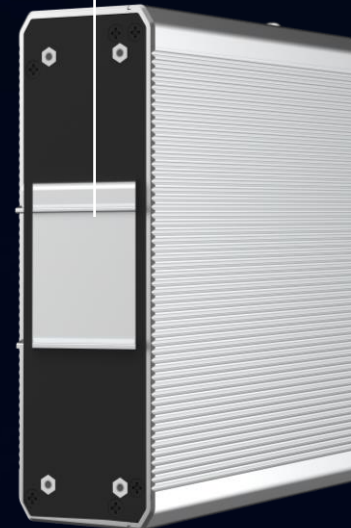
1 × PoE++ Port



2 × SFP Ports

RG-NIS2100-8GT2SFP-HP

DIN-rail Slot



Power Input 1

Power Input 2

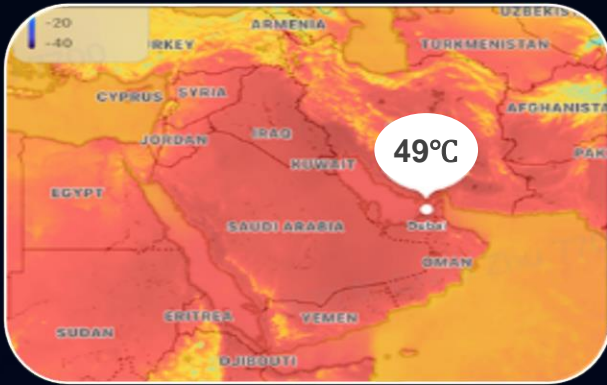
DIP Switch

Reset Button

DC Input PoE Protocol
46-57V IEEE 802.3AF
50-57V IEEE 802.3AT
52-57V IEEE 802.3BT



Specifically Designed for Different **Harsh Environment**



Tropical Area

- Extreme hot



Coastal Areas

- Humid & salty spray
- Easy corrosion



Thunderstorm

- Power surge
- Electrostatic discharge
- Voltage fluctuation



Remote Areas

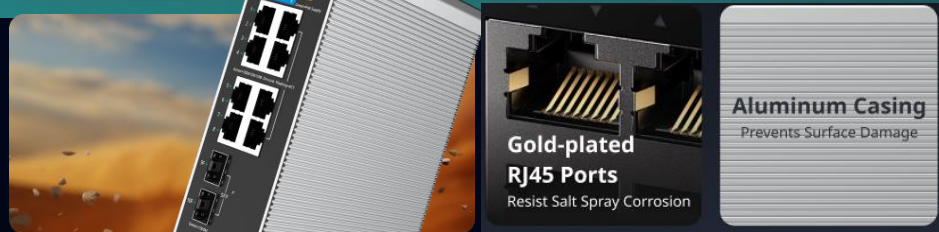
- Hard to reach
- Hard to get power



NIS2100 Key Selling Points



**Industrial-Grade Features for Handling
Harsh Environmental Challenges**



Wide Temperature Range: -40°C to +75°C

Full Aluminum Casing, 3 Times Faster than Steel on Heat Exchange



20 % Wider Temperature

Dust-proof: IP 40

IP40 Protection Against 1 mm Solid Particles

Better Ingress Protection



Anti Corrosion

Seaside

High salt and humidity causes rapid corrosion



Other Brands

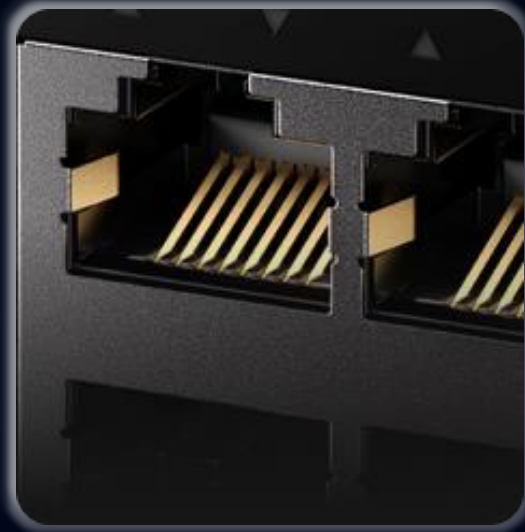


- Port Corrosion: Affects connection performance
- Rust on the surface: Reduces the device's lifespan



Anti Corrosion

Gold-plated RJ45 Ports



3 μm to 15 μm

Increase gold plating thickness on port from standard 3 μm to 15 μm



Aluminum Casing Prevents Surface Damage



400 times Salt Spray Tested

Tested continuously for 48 hours in a 400 times salty environment higher than costal areas



6 kV Protection Against Voltage Spikes



6kV

6kV Surge Protection and **15kV** ESD Protection
against Power Grid Fluctuation



EMC Level 4 Against Electromagnetic Interference



Power plants



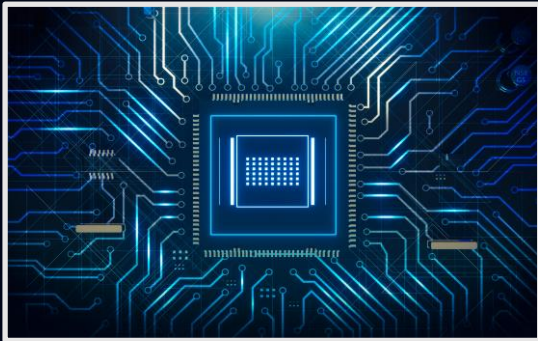
Industrial plants

In power and industrial plants, **high electromagnetic interference** (EMI) from numerous devices can cause data transmission **instability** and **affect network performance**.



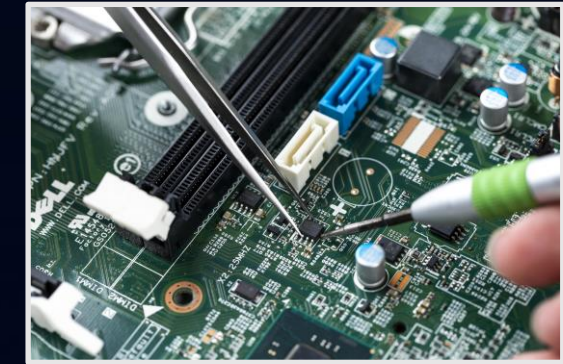
EMC Level 4 Against Electromagnetic Interference

Optimize PCB Board Design



Enhances network stability by optimizing PCB design to reduce EMI sensitivity

High-Reliability PCB components



Utilizes components with high tolerance and high reliability to improve resistance to interference



90W PoE Output: Perfect for High-Power Device



- High PoE Power Outdoor AP



RG-RAP2260(H)



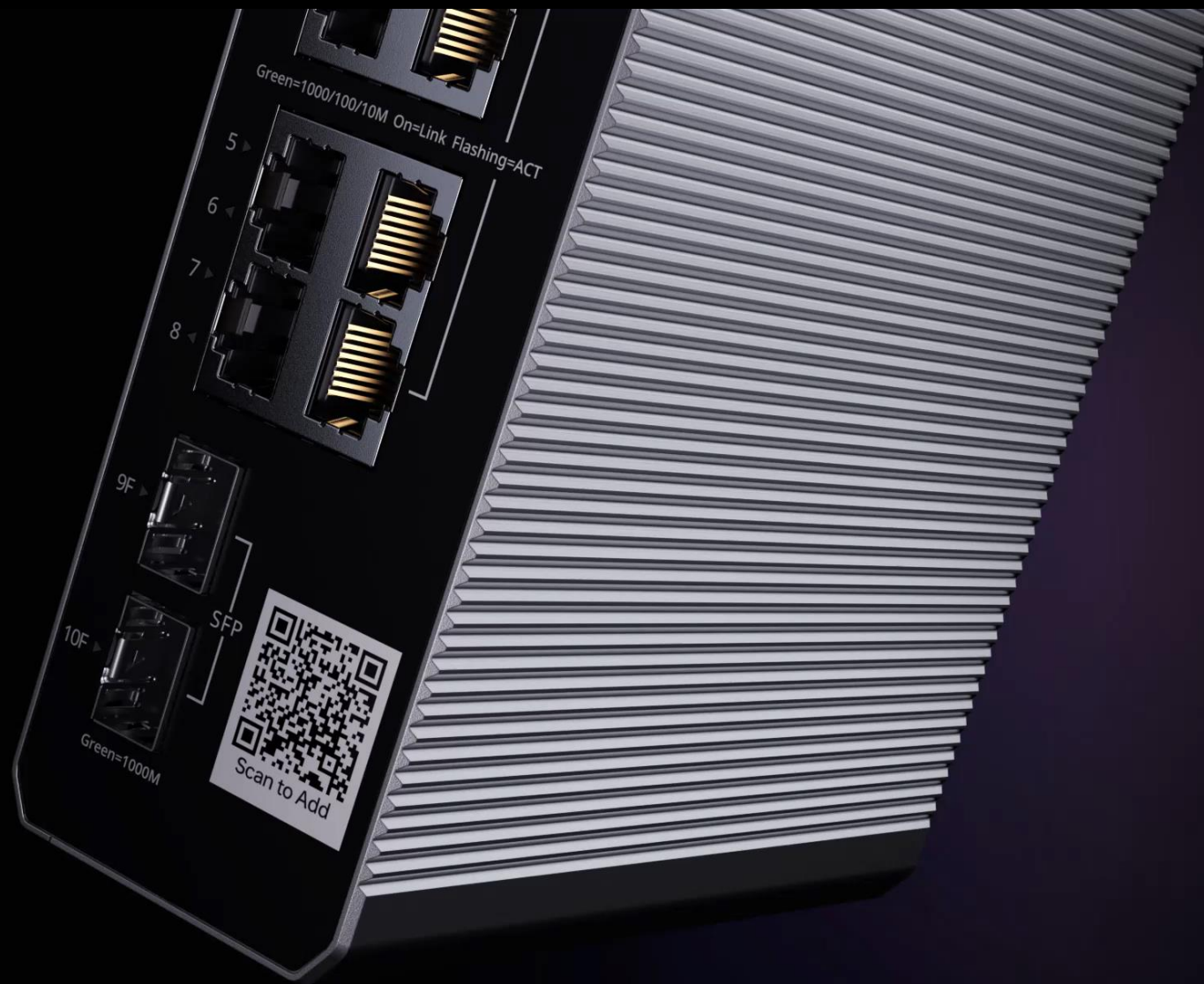
RG-RAP6260(H)

- High PoE Power PTZ



Flexible installation

- **Wall-Mounting**
- **DIN rail mounting**



Compact Size

Perfectly fit into a waterproof outdoor box

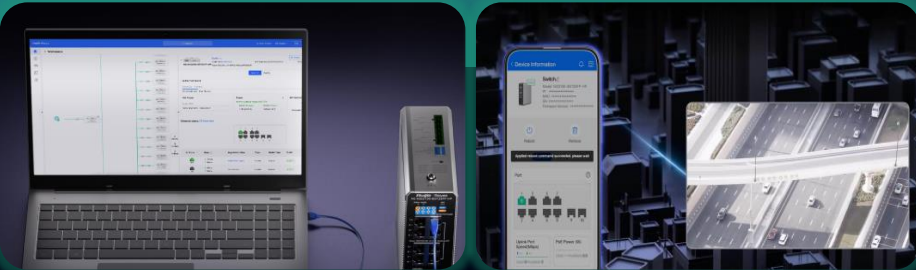


DIP Switch for Instant ERPS Configuration

Rapid Service Fallover Ensures Network Stability



Rich Features for CCTV



PoE Watchdog

Auto PoE Reboot on Failed IPC



DIP Switch for Instant ERPS Configuration

- Step1: Connect the fiber ports
 - Convergence time: $\leq 50\text{ms}$
- Step2: Turn on the ERPS dip switches
 - Max. number of devices in a single ring: ≥ 100
- Step3: Power on the devices



LAN Self-Organizing Network



LAN Self-Organizing Network

Simplify Setup by
Skipping Individual Configurations

Easy Remote Management Anytime, Anywhere



Power Supply and Industrial Optical Module



RG-NIS-PA120-54

- Power Consumption:120W
- Rated voltage range: 100-240V
- Maximum voltage range: 90-264V

*will be launched in at the end of October



RG-NIS-PA240-54

- Power Consumption:240W
- Rated voltage range: 100-240V
- Maximum voltage range: 90-264V

*will be launched in at the end of September



NIS-GE-SFP-550M-MM850

1000BASE-SX mini GBIC (850nm), 550m



NIS-GE-SFP-10KM-SM1310

1000BASE-LX mini GBIC (1310nm), 10km



NIS-GE-SFP-20KM-SM1550-BIDI

Gigabit BIDI Transceiver - TX1550/RX1310, 20km, LC



NIS-GE-SFP-20KM-SM1310-BIDI

Gigabit BIDI Transceiver - TX1310/RX1550, 20km, LC

SPEC	RG-NIS2100-8GT2SFP-HP	RG-NIS2100-4GT2SFP-HP
Interfaces	8x 10/100/1000 Base-T 2x 1G SFP	4x 10/100/1000 Base-T 2x 1G SFP
PoE	All Ports 802.3at/af, with 1 Port 802.3bt(90W)	
PoE Budget	Default: 228 W Max.: 300 W (web reserved adjustable interface)	Default: 108 W Max.: 180 W (web reserved adjustable interface)
Power Consumption	Idle: ≤ 12 W	Idle: ≤ 12 W
Switching Capacity	20Gbps	12Gbps
Operating Temperature	-40°C to +75°C	
Operating Humidity	10~90%	
Power Supply	46V-57V, DC/DC, redundant	
Surge Protection	6kV	
Corrosion resistance	Conformal Coating to Outside Casing	
Enclosure	IP40 Aluminum Casing	
Installation	DIN-Rail Mounting & Wall Mounting	
ERPS	One touch fast ring	
PoE Management	PoE Watchdog, Traffic monitoring, Alarms	
Management Interfaces	App, WEB	

RG-NIS2100-8GT2SFP-HP	Reyee	D Brand	U Brand
Hardware Specification	RG-NIS2100-8GT2SFP-HP	3211-8GT-120	7208GE-POE
Interfaces	8GT2SFP	9GT2SFP	8GT2SFP
PoE standard	802.3at/af with 1-Port 802.3bt	802.3at/af with 2-Port 802.3bt	802.3at/af
PoE Budget	Default: 228 W Max.: 300 W	120W	80/120/240W
Switching capacity	20Gbps	33Gbps	20Gbps
Operation Temperature	-40~75°C	-30 ~65 °C	-40~75°C
Surge Protection	6kV	4kV	6kV
Casing	Aluminum	Steel	Aluminum
IP rating	IP40	NA	IP40
Software Specification			
ERPS	One touch fast ring	NA	One key fast ring
PoE Management	PoE Watchdog	PoE Watchdog	PoE Watchdog
Management Interfaces	Ruijie Cloud/ Eweb	NA	NA

- Wide Temperature Range from -40°C to +75°C
- 6 kV Surge Protection Against Voltage Spikes
- IP40 Protection Against 1 mm Solid Particles



*Information is obtained from the Internet and official websites
 *Used by customer reference only

Update in 4-2024.(chart will be updated monthly)

RG-NIS2100-4GT2SFP-HP	Reyee	D Brand	U Brand
Hardware Specification	RG-NIS2100-4GT2SFP-HP	4206-4P-120	7204GE-HPOE
Interfaces	4GT2SFP	4GT2SFP	5GT1SFP1Combo
PoE standard	802.3at/af with 1-Port 802.3bt	802.3at/af with 1-Port 802.3bt	802.3at/af
PoE Budget	Default: 108 W Max.: 180 W	120W	120W
Switching capacity	12Gbps	6.8Gbps	14Gbps
Operation Temperature	-40~75°C	-30~65°C	-40~75°C
Surge Protection	6kV	4kV	6kV
Casing	Aluminum	Steel	Steel
IP rating	IP40	NA	NA
Software Specification			
ERPS	One touch fast ring	NA	NA
PoE Management	PoE Watchdog	PoE Watchdog	NA
Management Interfaces	Ruijie Cloud/ Eweb	NA	NA

- Wide Temperature Range from -40°C to +75°C
- 6 kV Surge Protection Against Voltage Spikes
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Choose NIS3 or NIS2 base on Real Need

SPEC	RG-NIS2100	RG-NIS3100
<i>Level</i>	Cloud Managed	Layer 2
<i>IP Rating</i>	IP40	IP40
<i>Operating Temperature</i>	-40~ 75°C	-40~ 80°C
<i>PoE</i>	IEEE802.3bt/at/af	IEEE802.3at/af
<i>DC in Voltage</i>	46~57V	12~57V
<i>VLAN</i>	Support	Support
<i>Voice VLAN</i>	n/a	Support
<i>STP</i>	n/a	STP/RSTP
<i>DHCP Snooping</i>	Support	Support
<i>IGMP Snooping</i>	n/a	Support
<i>IEEE802.1X</i>	n/a	Support
<i>ACL</i>	n/a	Support
<i>ERPS</i>	Support	Support
<i>LACP</i>	n/a	Support
<i>Management</i>	eWeb/Cloud Web/Cloud App	eWeb/Cloud Web/Cloud App/SNMP

