

# RG-NIS2100-8GT2SFP-HP

## 10-Port Cloud Managed Industrial Switch, with 1 x PoE++ Port, 7 x PoE+ Ports, and 2 x SFP Uplink Ports



### 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

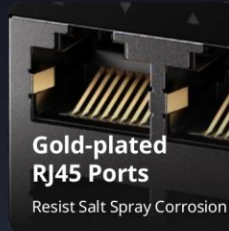


#### Wide Temperature Range

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



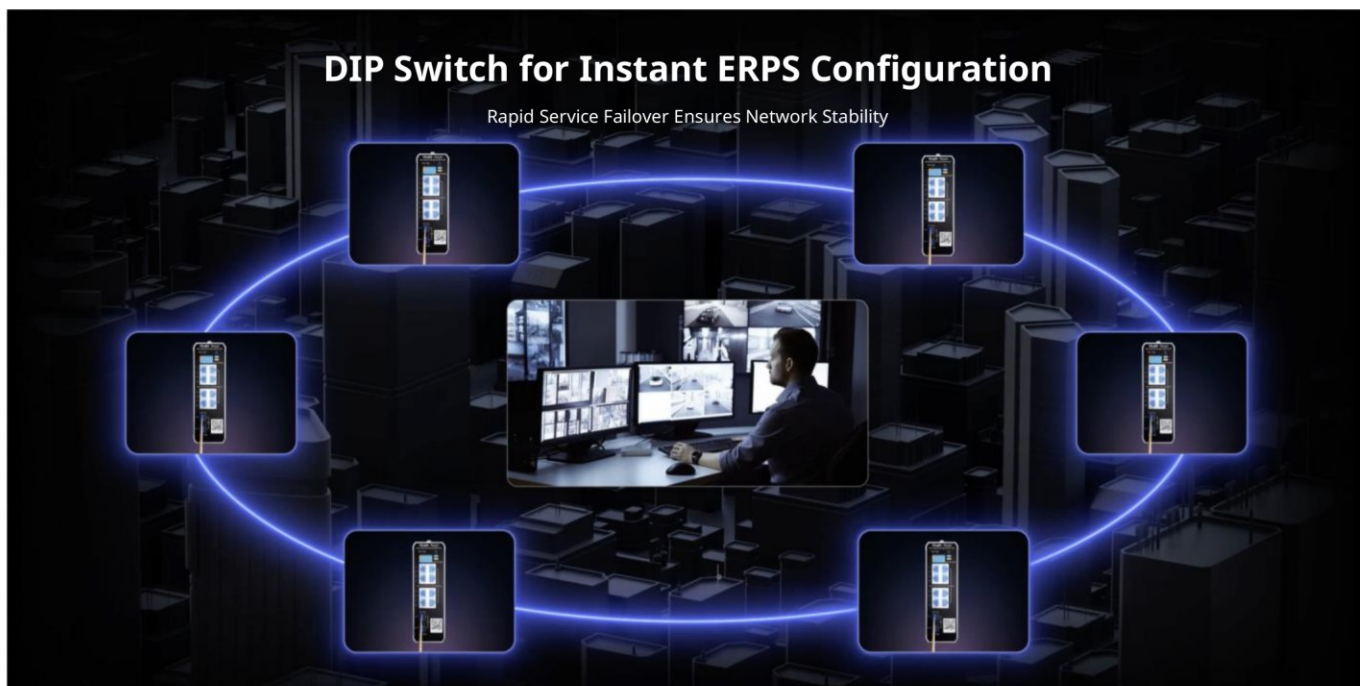
Compact design, perfectly fit into a waterproof outdoor box



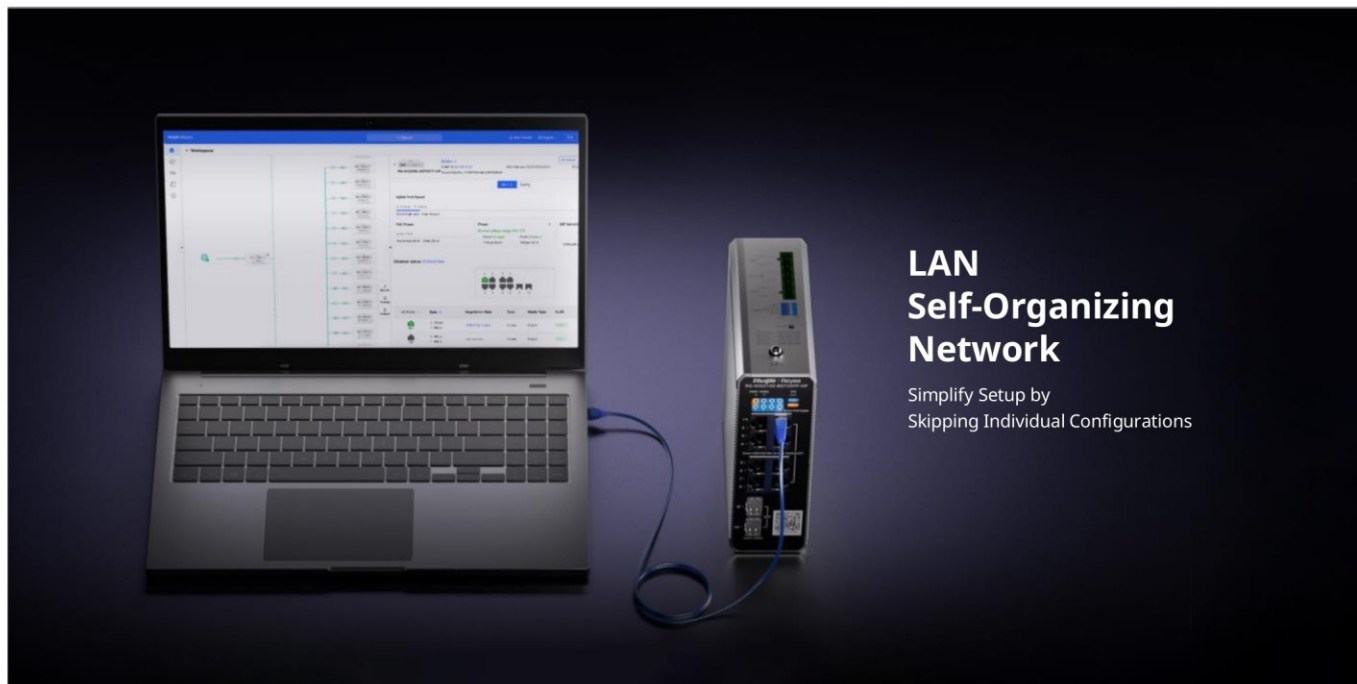
DIN rail mounting support for simplified installation

### DIP Switch for Instant ERPS Configuration

Rapid Service Failover Ensures Network Stability

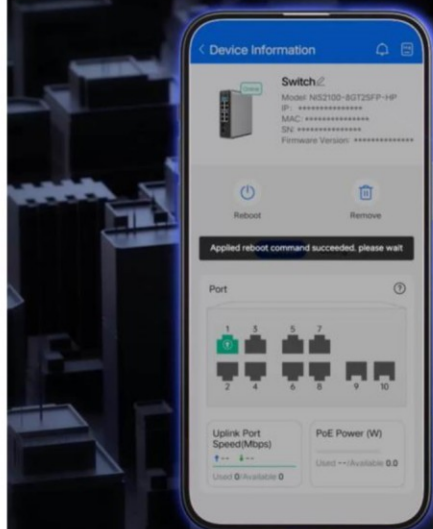


## / Highlight Features



## Cloud, Make Your Business Easy

Easy Remote Management Anytime, Anywhere



# / Product Information

| Model            | RG-NIS2100-8GT2SFP-HP |
|------------------|-----------------------|
| Product Category | Layer 2               |

# / Hardware Specifications

| Model                                   | RG-NIS2100-8GT2SFP-HP |
|-----------------------------------------|-----------------------|
| Certification and Regulatory Compliance |                       |
| 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      |
| Safety compliance                       | EN 62638-1            |
| Certification                           | CE, FCC               |
| Port Specifications                     |                       |
| Total number of RJ45 ports              | 8                     |
| Total number of optical ports           | 2                     |
| Number of 1GE SFP ports                 | 2                     |
| Number of 10/100/1000BASE-T ports       | 8                     |
| Ultra-long-haul transmission            | Yes (ports 5–8)       |
| Reset button                            | 1                     |

# Hardware Specifications

| Model                       | RG-NIS2100-8GT2SFP-HP                                                                                                                                                                                                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 (Cat5e cables required)</p> <p>Alarm mode: Turn on power in-position detection alarm</p> |
| Environment and Reliability |                                                                                                                                                                                                                                                                                                                              |
| Fan                         | Fanless design                                                                                                                                                                                                                                                                                                               |
| Cooling                     | Natural cooling                                                                                                                                                                                                                                                                                                              |
| Mounting options            | DIN rail mount/Wall                                                                                                                                                                                                                                                                                                          |
| Hot swapping of cables      | Hot swapping supported by the service port and power connector                                                                                                                                                                                                                                                               |
| MTBF                        | 200,000 hours                                                                                                                                                                                                                                                                                                                |
| Operating temperature       | -40°C to +75°C (-40°F to +167°F)                                                                                                                                                                                                                                                                                             |
| Storage temperature         | -40°C to +85°C (-40°F to +185°F)                                                                                                                                                                                                                                                                                             |
| Operating humidity          | 10% RH to 90% RH (non-condensing)                                                                                                                                                                                                                                                                                            |
| Storage humidity            | 5% RH to 95% RH (non-condensing)                                                                                                                                                                                                                                                                                             |
| Altitude                    | -500 m to +5,000 m (-1,640.42 ft. to +16,404.20 ft.)                                                                                                                                                                                                                                                                         |
| Corrosion class             | Salt Tolerance                                                                                                                                                                                                                                                                                                               |
| ESD protection              | <p>Air discharge: 15 kV</p> <p>Contact discharge: 8 kV</p>                                                                                                                                                                                                                                                                   |

# Hardware Specifications

| Model                              | RG-NIS2100-8GT2SFP-HP                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Surge protection                   | Service port: $\pm 6$ kV for common mode<br>Power connector: $\pm 4$ kV for common mode and $\pm 2$ kV for differential mode                                                                                                                                                                                                                                                     |
| Power Supply and Consumption       |                                                                                                                                                                                                                                                                                                                                                                                  |
| PoE Out standard                   | PoE/PoE+/PoE++ (IEEE 802.3af/at/bt)                                                                                                                                                                                                                                                                                                                                              |
| Number of PoE Out ports            | 8                                                                                                                                                                                                                                                                                                                                                                                |
| Number of PoE/PoE+ Out ports       | 8                                                                                                                                                                                                                                                                                                                                                                                |
| Number of PoE/PoE+/PoE++ Out ports | 1                                                                                                                                                                                                                                                                                                                                                                                |
| PoE budget                         | Default: 228 W<br>MAX: 300 W<br>(web reserved adjustable interface)                                                                                                                                                                                                                                                                                                              |
| PoE power pins                     | Port 1: 1-2 (-), 3-6 (+), 4-5 (+), 7-8 (-)<br>Ports 2-8: 1-2 (+), 3-6 (-)                                                                                                                                                                                                                                                                                                        |
| Power input                        | DC input: <ul style="list-style-type: none"><li>Rated voltage range: 46 V DC to 57 V DC</li><li>Rated current range: 7 A</li></ul> RG-NIS-PA240-48 (AC input): <ul style="list-style-type: none"><li>Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz</li><li>Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz</li><li>Rated input current: 3.5 A</li></ul> Output: |

# Hardware Specifications

| Model                          | RG-NIS2100-8GT2SFP-HP                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                | <ul style="list-style-type: none"><li>Rated output voltage: 54 V DC</li><li>Maximum output current: 4.4 A</li></ul> <p>RG-NIS-PA120-48 (AC input):</p> <ul style="list-style-type: none"><li>Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz</li><li>Maximum input voltage: 85 V AC to 264 V AC, 47 Hz to 63 Hz</li><li>Rated input current: 1.5 A</li></ul> <p>Output:</p> <ul style="list-style-type: none"><li>Rated output voltage: 48 V DC</li><li>Maximum output current: 2.5 A</li></ul> |
| Maximum power consumption      | <p>12 W (with no PoE load)</p> <p>312 W (with PoE full load)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Power supply                   | <ul style="list-style-type: none"><li>DC power adapter</li><li>Power module</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                               |
| Product Information            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Warranty                       | 5 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Dimensions and Weight          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Casing                         | Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Product dimensions (W x D x H) | 50 mm x 155 mm x 130 mm (1.97 in. x 6.10 in. x 5.12 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Weight                         | <p>0.79 kg (1.74 lbs) (without packaging materials)</p> <p>1.10 kg (2.43 lbs) (with packaging materials)</p>                                                                                                                                                                                                                                                                                                                                                                                        |
| Shipping weight                | 1.10 kg (2.43 lbs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

# Hardware Specifications

| Model                 | RG-NIS2100-8GT2SFP-HP |
|-----------------------|-----------------------|
| System Specifications |                       |
| Flash memory          | 8 MB                  |
| Forwarding rate       | 14.8 Mpps             |
| Switching capacity    | 20 Gbps(bit/s)        |

# Software Specifications

| Model                                     | RG-NIS2100-8GT2SFP-HP |
|-------------------------------------------|-----------------------|
| Network Management and Monitoring         |                       |
| Mirroring                                 | Yes                   |
| HTTP login                                | Yes                   |
| HTTPS login                               | No                    |
| SON                                       | Yes                   |
| Syslog                                    | No                    |
| Camera detection                          | Yes                   |
| eWeb management                           | Yes                   |
| Ruijie Cloud management                   | Yes                   |
| Ruijie Reyee App management               | Yes                   |
| SNMPv1, v2c, and v3                       | No                    |
| Ethernet Switching                        |                       |
| Maximum number of VLANs                   | 16                    |
| Maximum number of MAC address entries     | 8000                  |
| Interface flow control                    | Yes                   |
| IEEE 802.1Q VLAN                          | Yes                   |
| VLAN configuration supported on LAN ports | Yes                   |
| LLDP                                      | No                    |
| LLDP-MED                                  | No                    |

# Software Specifications

| Model                                                           | RG-NIS2100-8GT2SFP-HP |
|-----------------------------------------------------------------|-----------------------|
| Static MAC address                                              | Yes                   |
| Static aggregation                                              | No                    |
| LACP                                                            | No                    |
| Inbound or outbound rate limiting<br>based on interface traffic | Yes                   |
| Security                                                        |                       |
| Port isolation                                                  | Yes                   |
| Broadcast storm control                                         | Yes                   |
| Multicast storm control                                         | Yes                   |
| Unknown unicast storm control                                   | Yes                   |
| DHCP snooping                                                   | Yes                   |
| Standard ACL                                                    | No                    |
| Extended MAC ACL                                                | No                    |
| Extended IP ACL                                                 | No                    |
| IPv6 ACL                                                        | No                    |
| ARP anti-spoofing                                               | No                    |
| CPU Protection Policy                                           | Yes                   |
| Reliability                                                     |                       |
| Load balancing                                                  | No                    |
| ERPS                                                            | Yes                   |
| Gateway Features                                                |                       |

# Software Specifications

| Model                                        | RG-NIS2100-8GT2SFP-HP |
|----------------------------------------------|-----------------------|
| 802.1p priority-based traffic classification | No                    |
| DSCP priority-based traffic classification   | No                    |
| Multicast                                    |                       |
| IGMPv1 snooping                              | No                    |
| IGMPv2 snooping                              | No                    |
| Basic IGMPv3 snooping                        | No                    |
| Full IGMPv3 snooping                         | No                    |
| IGMP filtering                               | No                    |
| IGMPv1, v2, and v3                           | No                    |
| Basic Configurations                         |                       |
| PoE watchdog                                 | Yes                   |
| Uninterruptible power supply upon warm start | No                    |
| Online upgrade                               | Yes                   |
| Authentication                               |                       |
| RADIUS                                       | No                    |
| 802.1X authentication                        | No                    |
| Interface                                    |                       |
| Jumbo frame length (MTU)                     | 10000 bytes           |

# Software Specifications

| Model                       | RG-NIS2100-8GT2SFP-HP |
|-----------------------------|-----------------------|
| EEE                         | Yes                   |
| Cable test                  | Yes                   |
| System Performance Capacity |                       |
| Recommended camera limit    | 200W H265: 90         |
|                             | 400W H265: 45         |
| IP Service                  |                       |
| ARP                         | No                    |
| IPv4 ping                   | No                    |
| IPv4 traceroute             | No                    |
| ICMPv6                      | No                    |
| IPv6 ping                   | No                    |
| IPv6 traceroute             | No                    |
| DNS client                  | Yes                   |
| DHCP client                 | Yes                   |

## Package Contents

| Model              | RG-NIS2100-8GT2SFP-HP                                |
|--------------------|------------------------------------------------------|
| Device             |                                                      |
| Device             | 1                                                    |
| Accessories        |                                                      |
| Screw              | 4 X M3 x 5 mm cross recessed countersunk head screws |
| Rack-mount bracket | 2                                                    |
| Manual             |                                                      |
| User Manual        | 1                                                    |
| Warranty Card      | 1                                                    |

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**Ruijie Networks Co., Ltd.**

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