

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 $+75^{\circ}\text{C}$
- 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



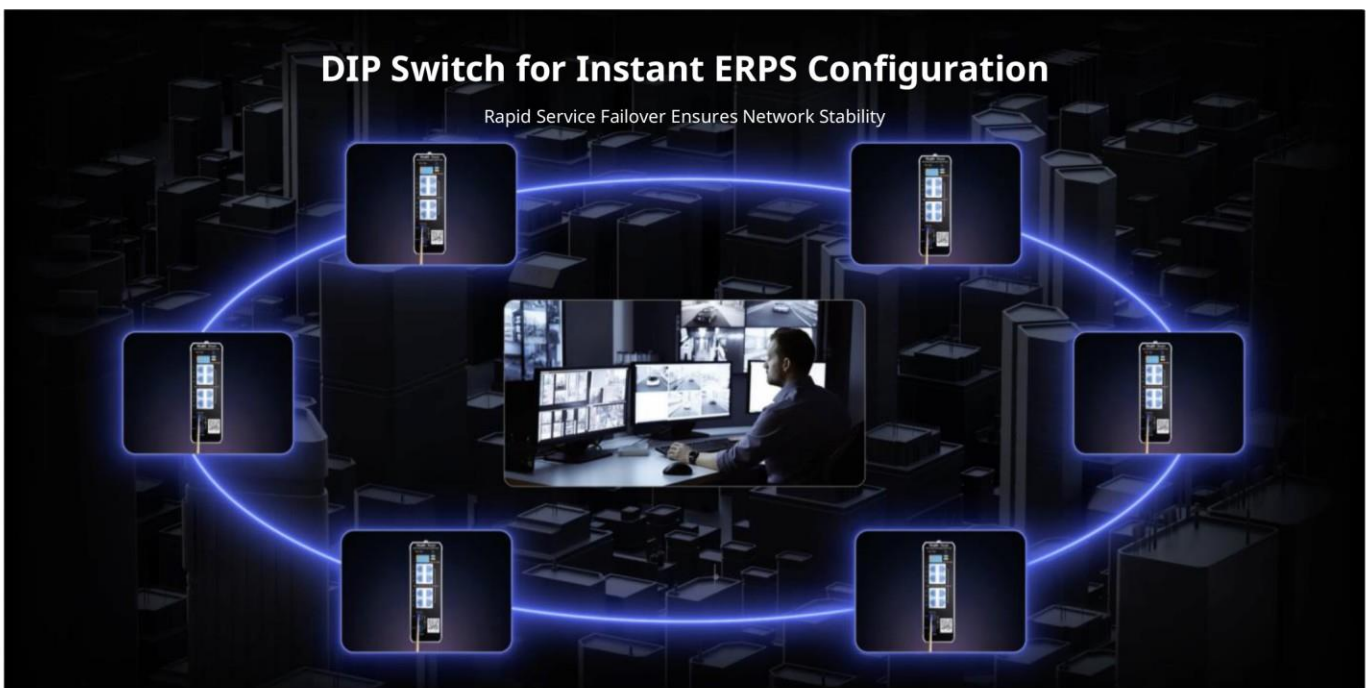
Compact design, perfectly fit into a waterproof outdoor box



DIN rail mounting support for simplified installation

DIP Switch for Instant ERPS Configuration

Rapid Service Failover Ensures Network Stability

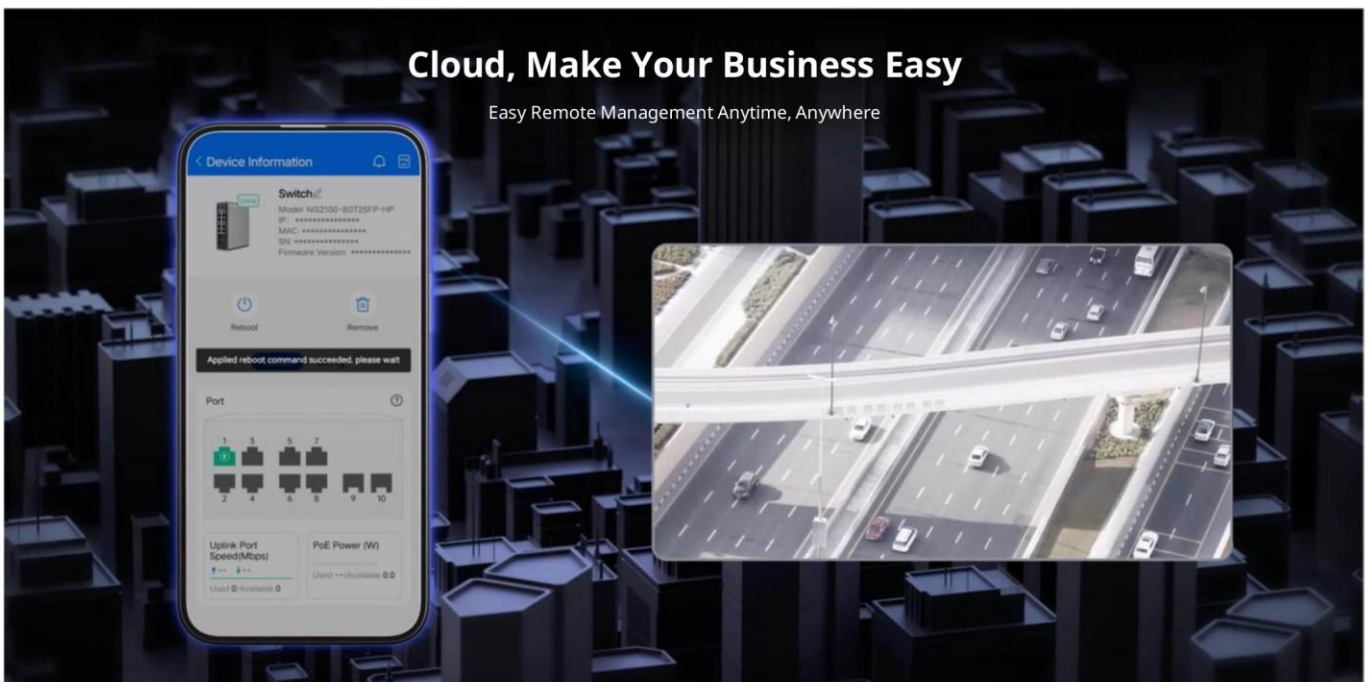


Highlight Features



LAN Self-Organizing Network

Simplify Setup by
Skipping Individual Configurations



Cloud, Make Your Business Easy

Easy Remote Management Anytime, Anywhere

Product Information

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

Hardware Specifications

| Model | RG-NIS2100-8GT2SFP-HP |
|---|---|
| Product Information | |
| Warranty | 5 years |
| 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 |
| 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 (Cat5e cables required) Alarm mode: Turn on power in-position detection alarm |
| 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 MAX: 300 W (web reserved adjustable interface) |

Hardware Specifications

| Model | RG-NIS2100-8GT2SFP-HP |
|--------------------------------|--|
| PoE power pins | Port 1: 1–2 (+), 3–6 (-), 4–5 (+), 7–8 (-) Ports 2–8: 1–2 (+), 3–6 (-) |
| Power input | <p>DC input:</p> <ul style="list-style-type: none"> Rated voltage range: 46 V DC to 57 V DC Rated current range: 7 A <p>RG-NIS-PA240-54 (AC input):</p> <ul style="list-style-type: none"> Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz Rated input current: 3.5 A <p>RG-NIS-PA120-54 (AC input):</p> <ul style="list-style-type: none"> Rated input voltage: 100 V AC to 240 V AC, 50/60 Hz Maximum input voltage: 90 V AC to 264 V AC, 47 Hz to 63 Hz Rated input current: 4 A |
| Maximum power consumption | 12 W (with no PoE load) 312 W (with PoE full load) |
| Power output | <ul style="list-style-type: none"> RG-NIS-PA240-54 90 V AC to 264 V AC: 54 V DC (output voltage), 4.4 A (rated output current) RG-NIS-PA120-54 90 V AC to 264 V AC: 54 V DC (output voltage), 2.2 A (rated output current) |
| Power supply | <ul style="list-style-type: none"> DC power adapter Power module |
| System Specifications | |
| Flash memory | 8 MB |
| Forwarding rate | 14.8 Mpps |
| Switching capacity | 20 Gbps(bit/s) |
| 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 | 0.79 kg (1.74 lbs) (without packaging materials) 1.10 kg (2.43 lbs) (with packaging materials) |
| Shipping weight | 1.10 kg (2.43 lbs) |

Hardware Specifications

| Model | RG-NIS2100-8GT2SFP-HP |
|--|--|
| 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 | Air discharge: 15 kV Contact discharge: 8 kV |
| Surge protection | Service port: ±6 kV for common mode Power connector: ±4 kV for common mode and ±2 kV for differential mode |
| 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 |

Software Specifications

| Model | RG-NIS2100-8GT2SFP-HP |
|--|-----------------------|
| Authentication | |
| RADIUS | No |
| 802.1X authentication | No |
| Basic Configurations | |
| PoE watchdog | Yes |
| Uninterruptible power supply upon warm start | No |
| Online upgrade | Yes |
| 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 |
| Static MAC address | Yes |
| Static aggregation | No |
| LACP | No |
| Inbound or outbound rate limiting based on interface traffic | Yes |
| Gateway Features | |
| 802.1p priority-based traffic classification | No |
| DSCP priority-based traffic classification | No |

Software Specifications

| Model | RG-NIS2100-8GT2SFP-HP |
|--|-----------------------|
| Interface | |
| Jumbo frame length (MTU) | 10000 bytes |
| EEE | Yes |
| Cable test | Yes |
| IP Service | |
| ARP | No |
| IPv4 ping | No |
| IPv4 traceroute | No |
| ICMPv6 | No |
| IPv6 ping | No |
| IPv6 traceroute | No |
| DNS client | Yes |
| DHCP client | Yes |
| Multicast | |
| IGMPv1 snooping | No |
| IGMPv2 snooping | No |
| Basic IGMPv3 snooping | No |
| Full IGMPv3 snooping | No |
| IGMP filtering | No |
| IGMPv1, v2, and v3 | No |
| Network Management and Monitoring | |
| Mirroring | Yes |
| HTTP login | Yes |
| HTTPS login | No |

Software Specifications

| Model | RG-NIS2100-8GT2SFP-HP |
|------------------------------------|--------------------------------|
| SON | Yes |
| Syslog | No |
| Camera detection | Yes |
| eWeb management | Yes |
| Ruijie Cloud management | Yes |
| Ruijie Reeye App management | Yes |
| SNMPv1, v2c, and v3 | No |
| Reliability | |
| Load balancing | No |
| ERPS | 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 |
| System Performance Capacity | |
| Recommended camera limit | 200W H265: 90 400W H265: 45 |

Package Contents

| Model | RG-NIS2100-8GT2SFP-HP |
|---------------------------|--|
| Device | |
| Device | 1 |
| Accessories | |
| Screw | 4 X M3 x 6 mm cross recessed countersunk head screws |
| Rack-mount bracket | 2 |
| Manual | |
| User Manual | 1 |
| Warranty Card | 1 |

Ruijie | **Reyee**

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



Ruijie Networks Co., Ltd.

Official Website: <https://Reyee.Ruijie.com>