



NS-1G24

**24-Port Gigabit PoE Switch
w/ 4x10G SFP+ (1U Rackmount)**

*Follow us on Youtube and
Facebook*



USER MANUAL

www.orei.com

Table of Contents

Introduction	04
Features	05
Package Contents	06
Specifications	06
Operation Controls and Functions	08
Installation Instruction	10
Web Management Operation Guide	12
FAQs & Troubleshooting	14

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating, or adjusting this product. Keep this manual for future reference.

Important Safety Note - Surge Protection Recommended

This product contains sensitive electronic components that may be damaged by electrical spikes, surges, lightning strikes, or static discharge. To protect and extend the service life of your equipment, we strongly recommend using a surge protection device.

Warranty Registration

Activate your warranty by registering your product at:

→ www.orei.com/register

Need Technical Support? We're Here to Help.

Our experienced Technical Support Team is available to answer your questions, offer expert advice, and help troubleshoot any issues to keep your project on track—on time and on budget.

Live Support Hours (US/Canada/Mexico):

🕒 Monday–Friday | 9:00 a.m. – 5:00 p.m. Central Time

Contact Us:

✉ Email: info@orei.com

📞 Phone: 877-290-5530

💬 Chat Live: www.orei.com

Send us an instant message—our team typically responds within moments during live support hours.

Introduction

The NS-1G24 Network Switch is a powerful solution featuring 24 adaptive 10/100/1000M PoE ports and 4 high-speed 10G SFP+ uplink ports. Designed for high-performance networking, it supports full line-speed forwarding to ensure smooth, stable data transmission across all connected devices.

With a durable 1U 19-inch metal chassis, the switch supports both desktop and rack-mount installations, making it highly adaptable for a range of environments. Whether used as a core switch for small LANs, an aggregation switch for medium-sized networks, or an access switch in large enterprise systems, it delivers reliable connectivity.

The built-in web-based management interface allows for flexible network control, while PoE support simplifies deployment of IP cameras, wireless access points, and other AV devices like the ToVi range of products by OREI. The NS-1G24 is completely compatible with and made specifically for ToVi's X1, X2, and X4 series of products.



Features

1. **24 1Gbps Adaptive PoE Ports + 4x 10G SFP+ Ports** – Offers robust expansion with high-speed uplink options.
2. **Full Line-Speed Forwarding** – Ensures stable, uninterrupted data transfer across all ports.
3. **Standard 19-Inch 1U Rackmount Design** – Fits both rack-mounted and desktop installations.
4. **Durable Metal Housing** – Built for reliable operation in varied environments including surveillance and enterprise AV applications.
5. **Plug-and-Play Setup** – No software installation required for basic deployment.
6. **PoE Support** – Simplifies installation of powered network devices like cameras and AV Over IP products.
7. **Web-Based Management Interface** – Enables convenient, centralized network monitoring and control.
8. **Made for ToVi** – Compatible with ToVi's X1, X2, and X4 series of products.

Specifications & Package Contents

Package Contents

1.	NS-1G24	1pcs
2.	AC Power Cord	1pcs
3.	Mounting Ear	2pcs
4.	Screw	6pcs
5.	Rubber Feet	4pcs
6.	Serial Port Cable	1pcs
7.	User Manual	1pcs

Specifications

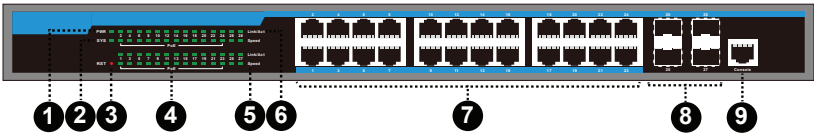
Technical			
Exchange Bandwidth	128Gbps	Jumbo Frame	16KB
Packet Forwarding Rate	95.2Mpps	ACL Table Size	1K
Forwarding Mode	Store-and-forward	Number of VLANs	4K
Packet Forwarding Cache	12Mbit	Number of Three-layer Interfaces	1K
DDR Memory	2Gbit	Routing Host	2K IPv4 or 512 IPv6
Flash Storage	128Mbit	Routing Table Size	512 IPv4 or 128 IPv6
MAC Address Table Capacity	16K	Port Queue	8
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)		

Specifications

Connection	
Network Port	24x Gigabit network port [RJ45] 4x 10 Gigabit SFP+ port [SFP+]
Management Port	1x Console port [RJ45]
LED Indicator Light	Power, Link/Act, Speed, SYS, PoE
Mechanical	
Housing	Metal Enclosure
Color	Gray
Dimensions	L: 440mm / 17.3in W: 200mm / 7.87in H: 44mm / 1.73in
Weight	2.95kg / 6.5lbs
Power Supply	100~240VAC, 50/60Hz
Power Consumption	30W (Max)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-10°C ~ 70°C / 14°F ~ 158°F
Operating Humidity	5%~95% relative humidity, non-condensing
Mounting Method	Desktop installation/rack mounting
PoE	
PoE Port	1-24
PoE Standard	IEEE802.3af, IEEE802.3at
PoE Power Budget	420W
Maximum PoE Power Per Port	30W
PoE Voltage	52V
PoE Pin Definition	V - (RJ45 Pin 1,2), V + (RJ45 Pin 3,6)

Operation Controls and Functions

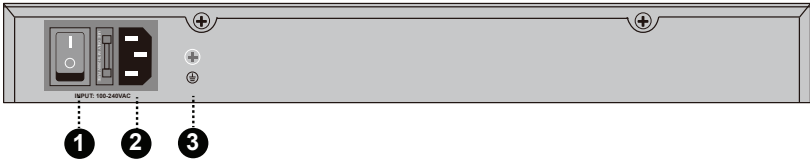
Front Panel



No.	Name	Function Description
1.	PWR LED	The power LED is on when the unit is powered on.
2.	SYS LED	- Flash quickly: The Switch is turning on. - Flash slowly: The Switch is turned on and working normally.
3.	RST button	Press and hold the reset button for 5 seconds, the Switch will be restored to default settings, and all changes will be lost.
4.	PoE LED	- Light on: The corresponding port is connected with a PD device. - Light off: The corresponding port doesn't supply power, or there is no detected PD device.
5.	Speed LED	- Light on: The corresponding port is running on 1000M. - Light off: The corresponding port is running on 10M or 100M.
6.	Link/Act LED	- Light on: The corresponding port is linked with the network. - Flash: The Switch is transmitting/receiving data through the corresponding port.
7.	PoE ports	24x 10/100/1000M adaptive PoE ports, supporting PoE function.
8.	SFP+ ports	4x 10G SFP+ ports.
9.	Console port	1x serial port, connected to PC or control system for serial port commands transmission.

Operation Controls and Functions

Rear Panel

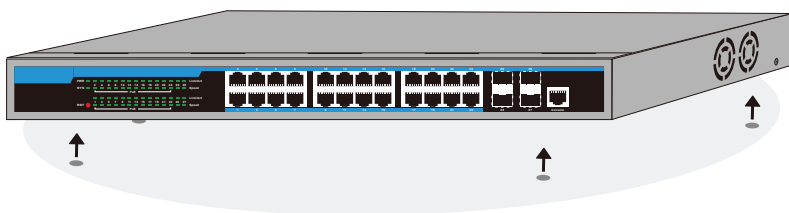


No.	Name	Function Description
1.	Power switch	After connecting the power cord, press the power switch to turn on/off the unit.
2.	Power port	Plug the included power cord into the power port, supporting input voltages of 100-240VAC, 50/60Hz.
3.	GND	Connect the unit gousing to the ground via specialized grounding wire.

Installation Instruction

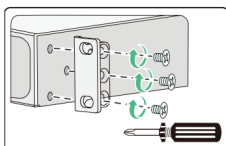
Desktop Installation

When installing the Switch on the desktop, the included rubber feet must be placed at the four corners of the device's bottom. Please leave sufficient space between the device and other surrounding objects to ensure proper ventilation.



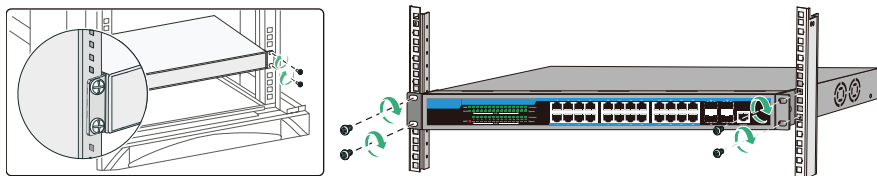
Rack Mounting

The Switch can be installed in an EIA standard 19-inch rack, which can be placed together with other devices in the wiring closet. During installation, attach the mounting brackets to the side panels of the Switch (one on each side) and fasten them with the included screws (please note that this installation rack is not for small Switches).



Installation Instruction

Then, install the Switch onto the rack using the screws provided with the rack.



Notes:

- (1) Check if the power cord is securely wrapped around the AC power connector.
- (2) Ensure proper heat dissipation and ventilation around the Switch.
- (3) Do not stack heavy objects on top of the Switch.
- (4) After installation, do not turn on the power before connecting the power cord to the socket, otherwise it will damage the Switch. During a power outage, please disconnect the power supply of the Switch. Reconnect it after the power supply is restored.

Web Management Operation Guide

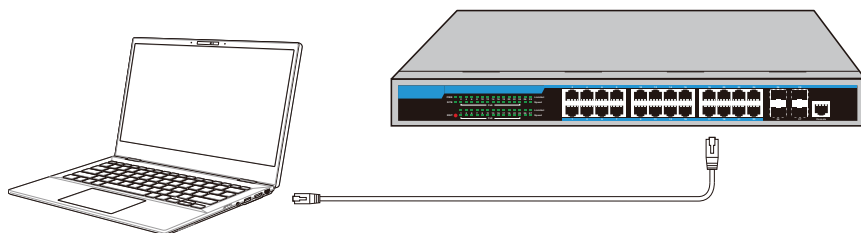
Users can use a web browser to configure the Switch, monitor the network status and display statistical information.

The embedded Web-based management currently supports the following web browsers:

1. Internet Explorer 6 or higher versions
2. Netscape 8 or higher versions
3. Mozilla
4. Firefox 1.5/2.0 or higher versions

Follow the steps below to log in to the Web management interface.

Step 1: Connect the Ethernet port of the PC to any port on the front panel of the Switch with a standard Ethernet cable.



Step 2: Set the IP address of the PC to be in the same network segment with the Switch. For example, the IP address of the Switch is 192.168.0.1. The IP address of the PC must also be 192.168.0.z (z is any number between 1 and 254), and the subnet mask must be 255.255.0.0.

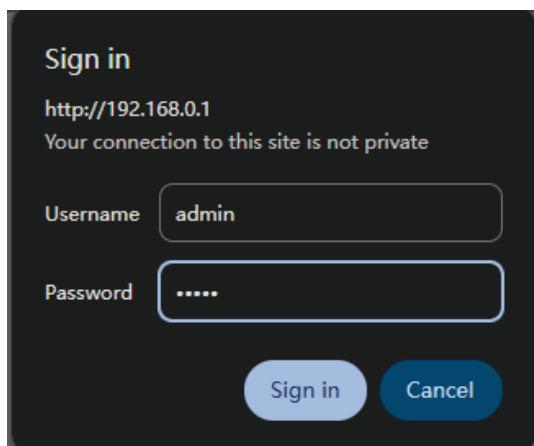
Note: The Switch's default IP address is 192.168.0.1, the subnet mask is 255.255.255.0, and the default gateway is 0.0.0.0.

Step 3: Input the Switch's default IP address (192.168.0.1) into the Web browser address bar on the PC, then tap the ENTER button to enter the Web management login interface.



Web Management Operation Guide

Step 4: Input the username and password (both are admin by default), then click the “Sign in” button to access to the Web management interface.



Sign in

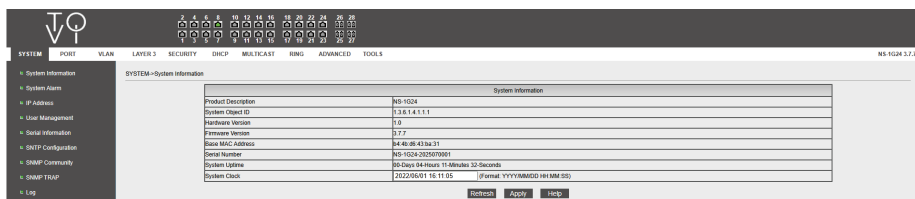
http://192.168.0.1

Your connection to this site is not private

Username

Password

The Web management interface is shown as following.



The screenshot shows the web management interface with a top navigation bar and a left sidebar. The main content area displays 'SYSTEM-System Information' with a table of system details.

System Information	
Product Description	MS-1024
System Chipset ID	1.3.8.1.4.1.1.1
Hardware Version	1.0
Firmware Version	1.7.7
Base MAC Address	94-40-08-433A-31
Serial Number	MS-1024-2025070001
System Uptime	00 Days 04 Hours 11 Minutes 32 Seconds
System Clock	2022/06/01 16:11:05 [Format: YYYYMMDD HH:MM:SS]

Buttons: Refresh, Apply, Help

FAQs & Troubleshooting

1. How many devices can I connect to the NS-1G24?

You can connect 24 devices via the adaptive 10/100/1000M PoE ports (ideal for IP cameras, wireless APs, and AV gear like ToVi products).

2. Can I use this switch with non-PoE devices?

Absolutely. The PoE ports are adaptive and can also work with standard (non-PoE) Ethernet devices without any issues.

3. Is it rack-mountable?

Yes. The NS-1G24 comes with a 1U 19-inch metal chassis and includes mounting ears for installation.

4. The switch does not power on.

- Check if the power cable is connected properly.
- Try a different power outlet.
- Check if the power LED on the unit is lighting up.

5. Connected devices are not receiving power (PoE not working).

- Ensure the device is PoE compatible.
- Confirm that the total PoE power budget does not exceed the capability of the switch.
- Try connecting the device to another PoE port.
- Check the web interface for PoE status or port shutdowns.

Still have some questions?

Please feel free to contact us at: info@orei.com. OR Fill out the form on the 'Contact Us' page on the website.

Our team will be more than happy to help you.

OREI Live Technical Support Hours

US team (US/Canada/Mexico): Monday-Friday, 9 a.m. - 5 p.m. Central Time

Support Email - info@orei.com | **Support Number** - 877-290-5530



**24-Port Gigabit PoE Switch
w/ 4×10G SFP+ (1U Rackmount)**

NS-1G24

www.orei.com

© 2025