

ienRon 2.5Gb Switch (8x 2.5Gb + 1x 10Gb SFP+)

ienRon 8-Port 2.5G Ethernet Switch with 10G SFP+ Uplink User Manual

Model: 2.5Gb Switch (8x 2.5Gb + 1x 10Gb SFP+)

1. PRODUCT OVERVIEW

The ienRon 8-Port 2.5G Ethernet Switch is an unmanaged network switch designed to provide high-speed connectivity for various applications, including home networks, small offices, gaming, and 4K video streaming. It features eight 2.5 Gigabit Ethernet ports and one 10 Gigabit SFP+ uplink port, offering flexible and robust network expansion.

This switch is built with a full-metal, fanless design for silent operation and efficient heat dissipation. It supports plug-and-play functionality, requiring no complex configuration.

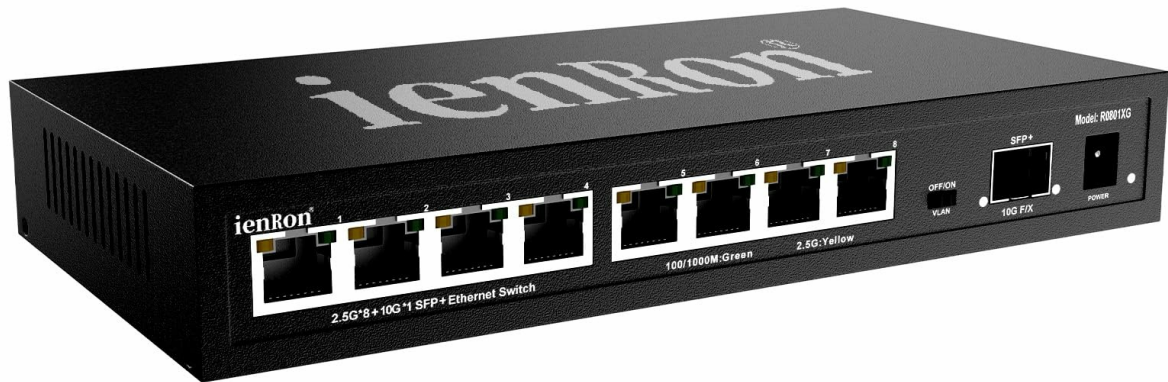


Image: Front view of the ienRon 8-Port 2.5G Ethernet Switch, showing the eight RJ45 ports and one SFP+ port.

2. KEY FEATURES

- **High-Speed Connectivity:** Equipped with 8 auto-sensing 10/100/1000/2500Mbps RJ45 ports and 1 combo 1.25/2.5/5/10G SFP+ fiber uplink port for high-bandwidth applications.
- **VLAN Isolation Mode:** A one-touch toggle allows isolation of all RJ45 ports (ports 1-8), preventing broadcast storms and internal interference. In normal mode, all ports communicate freely.
- **Durable and Silent Design:** Features a full-metal, fanless housing for silent operation, excellent heat dissipation, and EMI resistance.
- **Flexible Installation:** Supports both desktop placement and wall-mount installation for versatile deployment.
- **Enhanced Protection:** Includes 6KV lightning/surge protection on all ports to safeguard your network equipment.
- **Plug-and-Play:** No software installation or configuration required. Supports auto MDI/MDI-X and flow control.
- **High Performance:** Delivers 60Gbps bandwidth and an 8K MAC address table for efficient data handling.

8-Port 2.5Gb Switch with 10Gb SFP+ Uplink

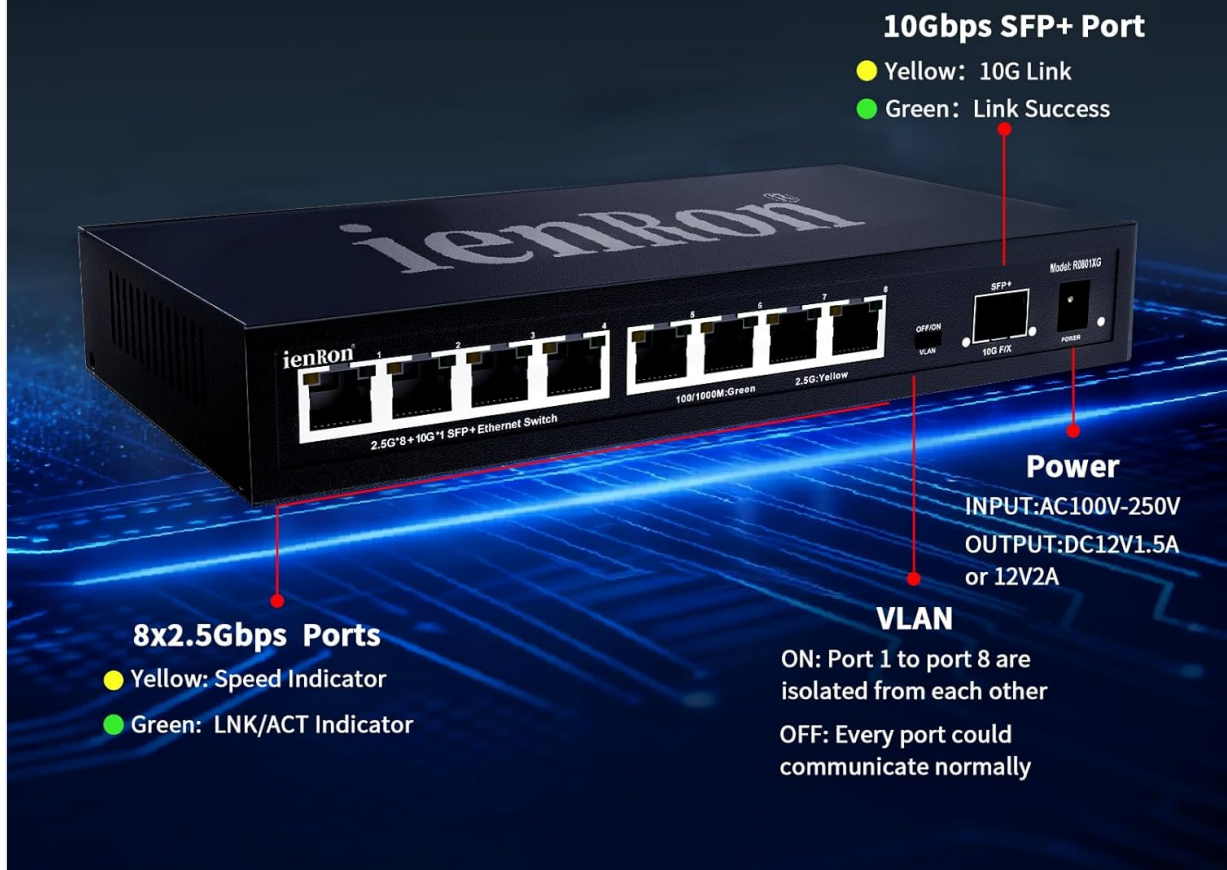


Image: Detailed view of the switch ports, showing 8x 2.5Gbps ports with yellow (speed) and green (link/activity) indicators, and 1x 10Gbps SFP+ port with yellow (10G link) and green (link success) indicators. Also shows the Power input and VLAN switch.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- ienRon 8-Port 2.5G Ethernet Switch (Model: R0801XG)
- Power Adapter (12V2A, AC 100–250V input)
- Instruction Manual

Compact & Wall-Mounted Design



Image: Contents of the product package, including the ienRon switch, power adapter, and instruction manual, alongside a diagram showing the switch dimensions and wall-mount option.

4. SETUP INSTRUCTIONS

The ienRon 8-Port 2.5G Ethernet Switch is designed for simple plug-and-play operation. Follow these steps to set up your switch:

- Power Connection:** Connect the provided power adapter to the switch's power input port and then plug the adapter into a standard AC power outlet. The power LED on the switch will illuminate.
- Connect Devices:** Use standard Ethernet cables (Cat5e/Cat6/Cat6a recommended for 2.5G speeds) to connect your network devices (e.g., computers, NAS, routers, game consoles, IP cameras) to any of the 8 RJ45 ports on the switch.
- SFP+ Uplink (Optional):** For high-speed backbone connections to a core network or server, insert a compatible 10G SFP+ module (not included) into the SFP+ port and connect it using an appropriate fiber optic or DAC cable.
- Verify Connection:** Once devices are connected, observe the LED indicators on the switch.
 - **RJ45 Ports:** A green LED indicates a successful link/activity. A yellow LED indicates the speed (e.g., 2.5G).

- **SFP+ Port:** A green LED indicates link success. A yellow LED indicates a 10G link.

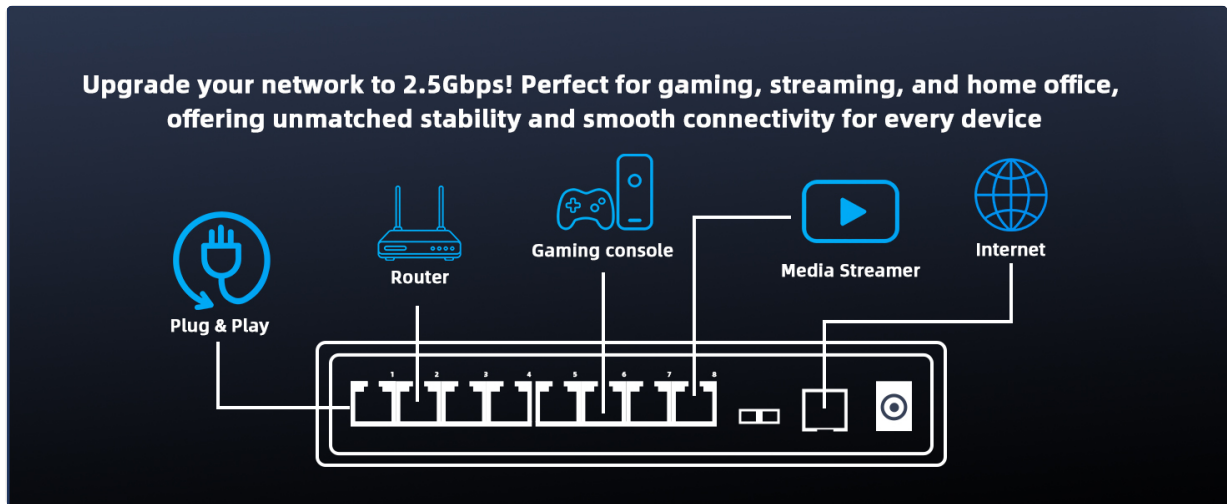


Image: A visual representation of the ienRon 2.5G switch connected to multiple devices such as a laptop, NAS, game console, and printer, illustrating a typical setup.

5. OPERATING INSTRUCTIONS

The ienRon 8-Port 2.5G Ethernet Switch operates automatically once connected. It is an unmanaged switch, meaning it does not require software configuration for basic network functionality.

5.1. VLAN Isolation Mode

The switch features a physical toggle switch labeled "VLAN" to enable or disable port isolation:

- **VLAN ON:** When the VLAN switch is in the "ON" position, ports 1 through 8 are isolated from each other. This means devices connected to these ports cannot communicate directly with each other. They can, however, communicate with devices connected to the SFP+ uplink port (if configured) and potentially with a router connected to the SFP+ port for internet access. This mode is useful for preventing broadcast storms and enhancing network security by isolating client devices.
- **VLAN OFF (Normal Mode):** When the VLAN switch is in the "OFF" position, all RJ45 ports (1-8) can communicate normally with each other and with the SFP+ uplink port. This is the standard operating mode for most home and small office networks where devices need to share resources.

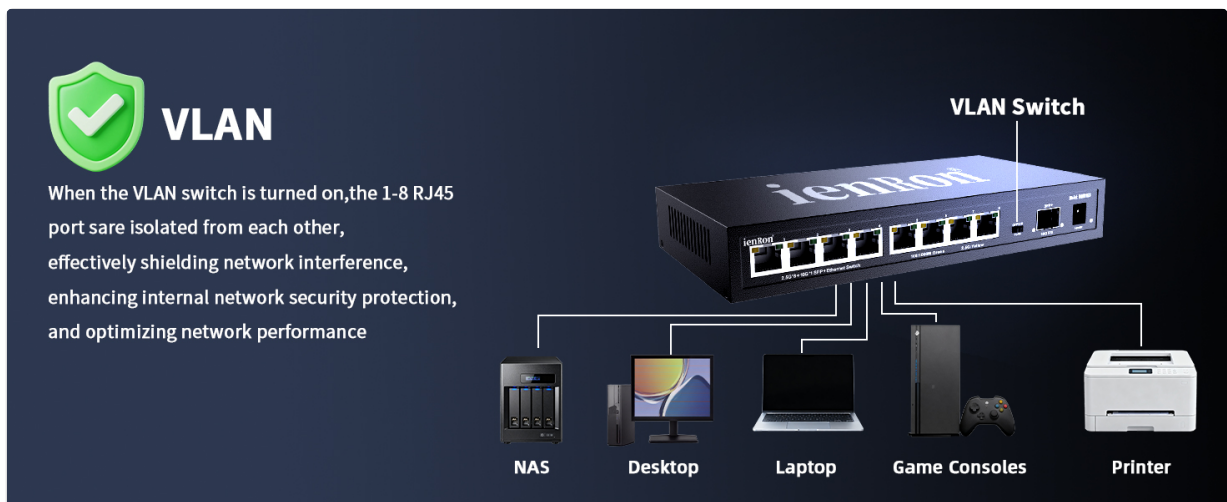


Image: Diagram showing how the VLAN switch isolates RJ45 ports 1-8 from each other when activated, enhancing network security and optimizing performance by preventing direct communication between client devices.

6. INSTALLATION

The ienRon 8-Port 2.5G Ethernet Switch offers flexible installation options:

6.1. Desktop Placement

Simply place the switch on a flat, stable surface such as a desk or shelf. Ensure adequate ventilation around the device to prevent overheating, especially since it is fanless and relies on passive cooling.

6.2. Wall-Mount Installation

The switch can be mounted on a wall using the integrated mounting slots on the underside of the device. Follow these general steps:

1. **Mark Mounting Points:** Hold the switch against the wall at the desired location and mark the positions for the mounting screws through the keyhole slots.
2. **Install Screws:** Drill pilot holes (if necessary) and insert screws into the marked positions, leaving a small gap between the screw head and the wall.
3. **Mount Switch:** Align the keyhole slots on the switch with the screw heads and slide the switch downwards to secure it in place.



Image: Diagram illustrating the dimensions of the switch (8.26"L x 4.33"W x 1.29"H) and showing both desktop and wall-

mounting options with a screw detail.

7. SPECIFICATIONS

| Feature | Detail |
|---------------------------|---|
| Product Dimensions | 8.26"L x 4.33"W x 1.29"H (21cm x 11cm x 3.3cm) |
| Item Weight | 1.25 Pounds (0.57 kg) |
| Voltage | 12 Volts |
| Case Material | Metal |
| Maximum Power Consumption | 18 Watts |
| Operating Temperature | Up to 55 Degrees Celsius |
| Interface Type | RJ45, SFP+ |
| Data Transfer Rate | 2.5 Gigabits Per Second (RJ45), 10 Gigabits Per Second (SFP+) |
| Current Rating | 1.5 Amps |
| Number of Ports | 9 (8x 2.5Gb RJ45, 1x 10Gb SFP+) |
| Compatible Devices | Gaming Console, NAS/NVR/PC, Printer, Router, AP, 4K Video devices |

8. TROUBLESHOOTING AND FAQ

Q1: How much faster is a 2.5G port than a regular gigabit (1G) port? What scenarios is it suitable for?

A1: A 2.5G port (2500 Mbps) delivers 2.5 times the speed of standard Gigabit Ethernet. It is ideal for bandwidth-intensive tasks such as large file transfers, 4K/8K video streaming, and high-speed network storage access (NAS).

Q2: What is the 10G SFP+ port used for? Can it connect to fiber optics?

A2: The 10G SFP+ port serves as a high-speed uplink to connect to your core network devices, such as a router or server. It supports fiber optic transceivers or DAC cables, enabling flexible and ultra-fast backbone connections. This provides ample bandwidth headroom to meet future network demands.

Q3: How is the heat dissipation and stability? Is it suitable for 24/7 operation?

A3: With a fanless design and robust metal housing, the switch ensures efficient heat dissipation and reliable performance. It is built for continuous 24/7 operation and includes 6KV surge protection for enhanced durability.

Q4: Is the switch easy to set up? Do I need to configure it?

A4: Yes, it is completely plug-and-play. As an unmanaged switch, no configuration is required—just connect your devices with Ethernet cables, and it starts working immediately.

9. MAINTENANCE

The ienRon 8-Port 2.5G Ethernet Switch is designed for low maintenance. Follow these guidelines to ensure optimal performance and longevity:

- **Keep Clean:** Regularly dust the switch and its ports with a soft, dry cloth. Avoid using liquid cleaners or solvents.
- **Ventilation:** Ensure that the ventilation holes on the sides of the switch are not obstructed to allow for proper heat dissipation.
- **Power Supply:** Use only the original power adapter provided with the switch. If the power adapter fails, replace it with a compatible one with the correct voltage and current ratings (12V, 1.5A or 2A).
- **Environment:** Operate the switch within its specified temperature range (up to 55°C) and avoid excessively humid or dusty environments.

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or contact ienRon customer service directly. Typically, warranty details are provided on the manufacturer's website or through the retailer where the product was purchased.

When contacting support, please have your product model number (2.5Gb Switch (8x 2.5Gb + 1x 10Gb SFP+)) and purchase details readily available.