

Real HD SW8-10G-RJ45-V

Real HD 8-Port 10Gb RJ45 Web Managed Network Ethernet Switch User Manual

Model: SW8-10G-RJ45-V | Brand: Real HD

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Real HD 8-Port 10Gb RJ45 Web Managed Network Ethernet Switch. This device is designed to provide high-speed network connectivity, supporting multi-gigabit speeds (10G, 5G, 2.5G, 1G, 100M) across its 8 RJ45 ports. It features a web-managed interface for advanced configuration and control, a built-in fan for efficient cooling, and supports both desktop and 19-inch rack mounting.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Web Managed Interface:** Offers secure setup, access, and SNMP management for device/port status query and various configurations including VLAN, QoS, security, multicast, MAC address table, and diagnosis.
- **High-Speed Connectivity:** 8 x 10G RJ45 ports with 160Gbps switching capacity, supporting 10G, 5G, 2.5G, 1G, and 100M speeds.
- **Multi-Gigabit Compatibility:** Auto-negotiates speeds with connected devices.
- **Efficient Cooling:** Equipped with a built-in fan for optimal thermal performance.
- **Flexible Installation:** Supports both desktop placement and 19-inch standard rack mounting.
- **Broad Application:** Ideal for 8K video streaming, 10G Ethernet adapter laptops, WiFi 6/7 routers/APs, 10G gaming PCs, and 10G NAS systems.
- **Cable Compatibility:** Works with existing Cat6, Cat6a, Cat7, or higher-level pure copper Ethernet cables for 10 Gigabit speeds.

2.2 Package Contents

- 1 x Real HD 8-Port 10Gb RJ45 Web Managed Network Ethernet Switch (Model SW8-10G-RJ45-V)
- 1 x Power Adapter (AC 100-240V, 50/60Hz input; 12V 8A output)
- Rack Mount Brackets (for 19-inch rack installation)

- User Manual (this document)



Image 2.1: Front view of the Real HD 8-Port 10Gb RJ45 Web Managed Network Ethernet Switch.

3. SETUP

3.1 Physical Installation

The switch can be installed on a desktop or mounted in a standard 19-inch rack.

1. **Desktop Installation:** Place the switch on a stable, flat surface with adequate ventilation. Ensure no objects block the ventilation holes on the sides.
2. **Rack Mount Installation:** Attach the provided rack mount brackets to the sides of the switch using the included screws. Secure the switch into a standard 19-inch equipment rack. Ensure proper airflow within the rack to prevent overheating.

Support Desktop and 1U Rack Mounted



Image 3.1: The switch supports both desktop and 19-inch rack mounting options.

3.2 Power Connection

Connect the provided power adapter to the AC INPUT port on the rear panel of the switch and then plug it into a standard AC power outlet (100-240V, 50/60Hz).

3.3 Network Connections

Connect your network devices (e.g., computers, NAS, routers, servers) to the RJ45 ports on the front panel of the switch using appropriate Ethernet cables.

- For 10Gbps speeds, use Cat6a, Cat7, or Cat8 pure copper Ethernet cables.
- For 2.5Gbps speeds, Cat5e or above copper cables are sufficient.
- The switch ports will auto-negotiate to the highest supported speed of the connected device and cable.

10x Faster Than Regular Gigabit Network

SW8-10G-RJ45
8-Ports 10G Managed Ethernet Switch

2.5G/10G Link/Act
100/1000M Link/Act

10G
2.5G

CAT6a Cable ✓
CAT7 Cable ✓
CAT8 Cable ✓

IEEE 802.3ab
1G
IEEE 802.3bz
2.5G
IEEE 802.3ae
10G

NOTE: In order to get 10Gb high network speed please use **CAT6a or higher** level pure copper ethernet cable;

Image 3.2: Recommended cable types for achieving 10Gbps network speeds.

4. OPERATING INSTRUCTIONS

4.1 Power On

After connecting the power adapter, the switch will power on automatically. The power LED indicator on the front panel will illuminate.

4.2 LED Indicators

Each RJ45 port has LED indicators to show link status and activity:

- **Link/Act LED:** Indicates a successful network connection and flashes during data transmission.
- **Speed LED:** Indicates the current operating speed of the port (e.g., 10G, 5G, 2.5G, 1G, 100M). Refer to the switch's front panel legend for specific color/pattern meanings.

4.3 Basic Connectivity

Once powered on and devices are connected, the switch will automatically detect and establish network links. For most basic network setups, no further configuration is required for devices to communicate within the local network.

5. WEB MANAGEMENT INTERFACE

The Real HD switch features a web-based management interface for advanced configuration and monitoring. This allows users to manage the device without requiring command-line interface (CLI) expertise.

5.1 Accessing the Interface

1. Ensure your computer is connected to the switch via an Ethernet cable.
2. Open a web browser (e.g., Chrome, Firefox, Edge).
3. Enter the default IP address of the switch into the browser's address bar. The default IP address is typically **192.168.2.1**.
4. You will be prompted for a username and password. Refer to the included quick start guide or product documentation for default credentials.

5.2 Configuration Options

Through the web interface, you can configure various network settings:

- **VLANs:** Create and manage Virtual Local Area Networks for network segmentation.
- **QoS (Quality of Service):** Optimize network performance for specific traffic types, such as VoIP and video streams.
- **Security:** Configure port security, MAC address constraints, and other security features.
- **Multicast/IGMP:** Manage video streams and multicast traffic efficiently.
- **Port Settings:** Adjust priority settings per port, rate limiting, and other port-specific configurations.
- **Diagnosis:** Access tools for network diagnostics.
- **Spanning Tree Protocol (STP):** Configure for failover links and interoperability.

Important Notes:

- This switch **does not** come with VPN functionality.
- The switch **does not** support L2 and L3 software features beyond those listed above.

Web Managed for Local Configuration & Control

Users can configure, monitor and troubleshoot the device without having CLI expertise



VLANs - network segmentation controls

QoS - optimizes VoIP & network video performance

IGMP & Multicast - video streams & multicast traffic

Port Security - MAC Address Constraints

Priority Settings per Port - rate limiting, and VLANs

Spanning Tree Protocol - with failover links & interoperability

Not support L2 and L3 Software Features

Image 5.1: Overview of web management features for configuration and control.

6. MAINTENANCE

6.1 Cooling and Ventilation

The switch includes a built-in fan to maintain optimal operating temperatures. Ensure that the ventilation openings on the sides of the unit are not obstructed. Placing the switch in an environment with good airflow, such as on metal shelving, is recommended.



Image 6.1: The switch features a built-in fan for cooling.

6.2 Cleaning

Periodically clean the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners. Ensure the ventilation openings are free of dust buildup.

6.3 Firmware Updates

While firmware updates may be released to improve performance or add features, they are not publicly available. For any potential firmware updates or related inquiries, please contact Real HD technical support.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Real HD switch.

7.1 No Power

- Ensure the power adapter is securely connected to both the switch and a working power outlet.
- Verify the power outlet is active by plugging in another device.

7.2 No Link Light / No Connectivity

- Check that Ethernet cables are securely plugged into both the switch port and the connected device.
- Try a different Ethernet cable to rule out a faulty cable.
- Ensure the connected device is powered on and its network adapter is functioning correctly.
- If using a managed port, verify that the port is enabled and configured correctly in the web interface.

7.3 Slow Network Speed

- For 10Gbps speeds, ensure you are using Cat6a, Cat7, or Cat8 pure copper Ethernet cables. Lower category cables may limit speed.
- Verify that both the connected device's network adapter and the switch port support the desired speed. The connection will operate at the lowest common speed.
- Check for network congestion or issues with other devices on your network.

7.4 Cannot Access Web Management Interface

- Ensure your computer's IP address is in the same subnet as the switch (default 192.168.2.x, with subnet mask 255.255.255.0).
- Verify you are using the correct default IP address (192.168.2.1).
- Clear your browser's cache or try a different browser.
- If the switch's IP address has been changed and forgotten, a factory reset may be necessary. Consult technical support for factory reset procedures.

7.5 Configuration Loss After Power Cycle

If the switch loses its configuration when powered down, this indicates a potential hardware issue. Please contact Real HD technical support for assistance and possible replacement.

8. SPECIFICATIONS



Image 8.1: Key specifications and power input details of the switch.

Feature	Description
Brand	Real HD
Model Number	SW8-10G-RJ45-V
Number of Ports	8 x RJ45
Data Transfer Rate	10 gigabits_per_second (Multi-Gig: 10G/5G/2.5G/1G/100M)
Switching Capacity	160 Gbps
Packet Cache	12 Mbit
MAC Address Table	16K
Input Voltage	AC 100-240V, 50/60Hz
Power Supply Output	12V 8A
Case Material	Metal
Cooling	Built-in Fan
Item Weight	2.35 kg
Installation	Desktop, 19-inch Rack Mount

9. WARRANTY AND SUPPORT

9.1 Product Warranty

This Real HD switch comes with a **1-Year Warranty** from the date of purchase. Please retain your proof of purchase for warranty claims.

9.2 Technical Support

Real HD provides US local technical support. Our English-speaking support team is available from 9 AM to 5 PM CST. For any technical assistance, troubleshooting, or warranty inquiries, please contact the seller directly.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question