

MokerLink 4*2.5G,10G RJ45,10G SFP Managed

MokerLink 10G Easy Web Managed Switch User Manual

Model: 4*2.5G,10G RJ45,10G SFP Managed

Brand: MokerLink

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your MokerLink 10G Easy Web Managed Switch. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.

Package Contents

- 10G Managed Switch
- Power Cable
- User Manual

2. PRODUCT OVERVIEW

The MokerLink 10G Easy Web Managed Switch is designed to provide high-speed network connectivity with advanced management features. It offers a versatile port configuration and robust performance for various network environments.



Figure 1: Front view of the MokerLink 10G Easy Web Managed Switch, showing the power input, 2.5G Ethernet ports, 10G RJ45 port, and 10G SFP port.

Key Features

- **2.5G and 10G Ports:** Equipped with 4x2.5Gbps Ethernet ports (supporting 2.5G/1000M) and 1x10Gbps Ethernet RJ45 port (supporting 10G/5G/2.5G/1000M). Includes 1x10G SFP Port for optical fiber transmission.
- **Easy Web Management:** Supports Layer 2 management features such as QoS, ACL, Link Aggregation (LACP), Loop Detection, VLAN configuration, IP-MAC-VLAN Port Binding, Port Mirroring/Isolation/Rate-limit/Security, Storm Control, Spanning Tree, diagnosis/Ping, and SNMP. Configurations are saved and persistent after reboot. Can also function as an unmanaged switch without configuration.
- **60Gbps Bandwidth:** Offers a switching capacity of 60Gbps, with two 10G ports providing a cost-effective solution for high-speed network links.
- **User-Friendly Design:** Features auto MDI/MDIX and auto-negotiation rate. Durable metal casing and fanless design ensure quiet, stable operation and low energy consumption. Power and port LED indicators clearly display status.
- **Versatile Applications:** Desktop/wall-mounting design suitable for home entertainment, offices, 8K video streaming, gaming PCs, NAS, PCIe adapters, servers, and WiFi APs.

Upgrade to a Faster 2.5G Network without Changing Cables

4x2.5GE+1x10GE+1x10G SFP+ Web Managed Switch

**2.5
Gbps**
4 x 2.5G
Ports

**10
Gbps**
1 x 10G RJ45
Uplink

**10
SPF+**
1 x 10G SFP+
Uplink

**Web
Management**

L²
Layer 2
Features

**Hassle-Free
Cabling**

**Fanless & Noiseless
Design**



Figure 2: Visual representation of the switch's key features including 2.5G ports, 10G uplinks, web management, L2 features, and fanless design.

2.5G Speeds Downlink and 10G Lightning-Fast Uplink

IEEE 802.3ae

10Gbps

IEEE 802.3bz

2.5Gbps

IEEE 802.3ab

1Gbps

2.5x-10x

	CAT 5e	CAT 6	CAT 6A
100M	V	V	V
1G	V	V	V
2.5G	V	V	V
5G	V	V	V
10G	X	V (55m)	V

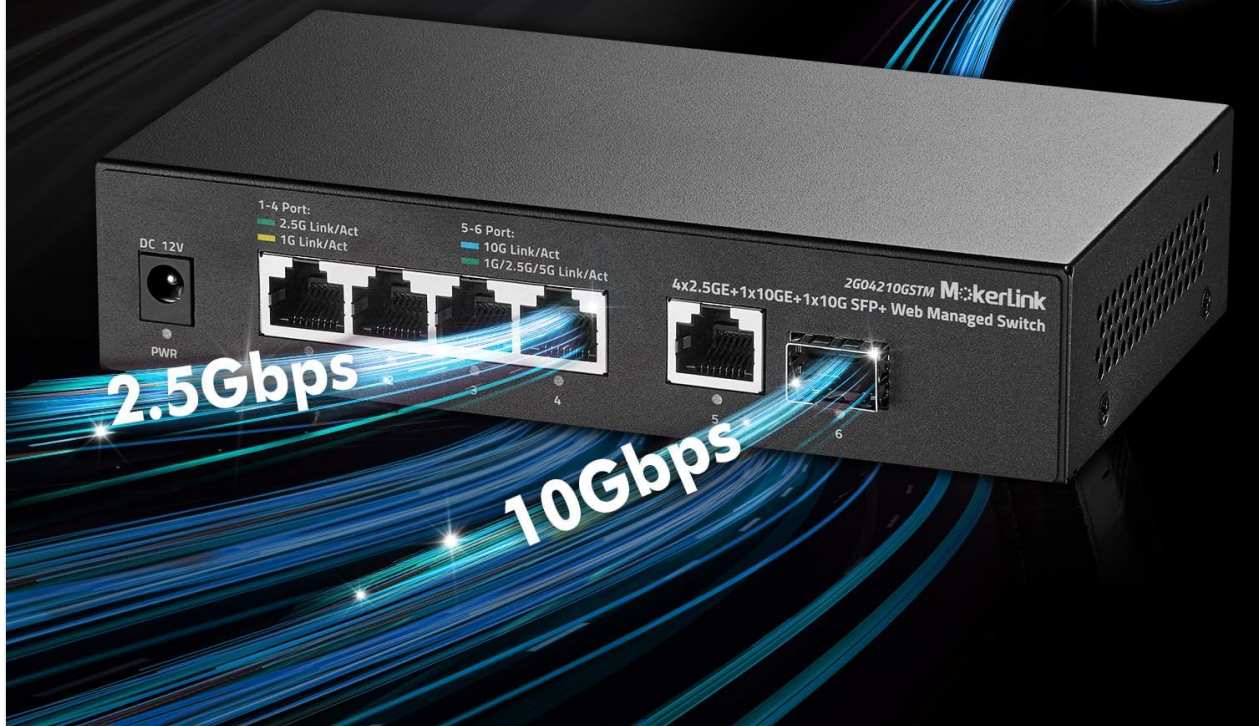


Figure 3: Diagram illustrating 2.5G and 10G speeds and compatibility with different Ethernet cable categories (CAT5e, CAT6, CAT6A).

4x 2.5G RJ45 + 1x10G RJ45 + 1x10G SFP+ Ports Configuration

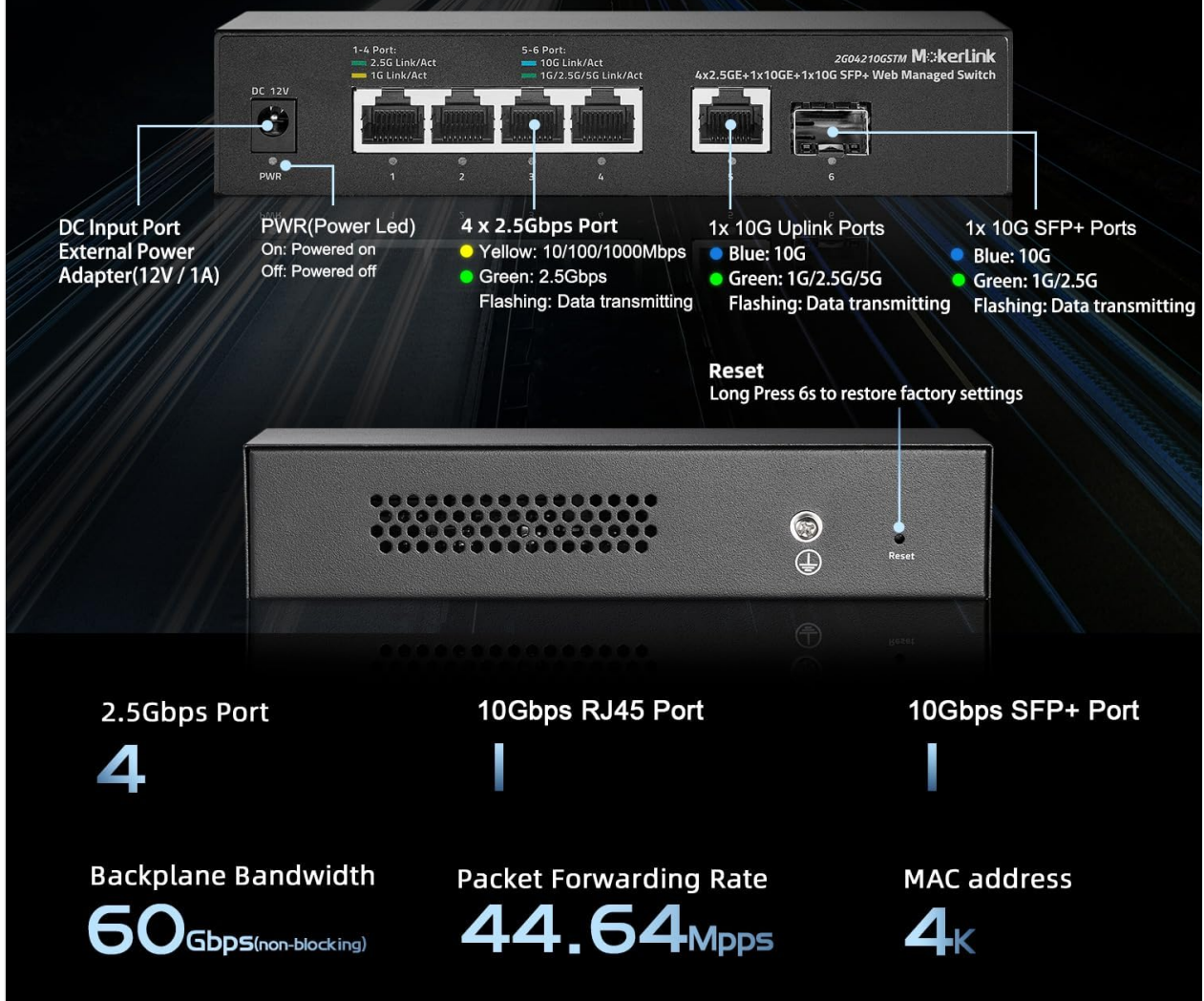


Figure 4: Detailed view of the switch's ports, including DC input, PWR LED, 2.5Gbps ports (1-4), 10Gbps RJ45 port (5), and 10Gbps SFP+ port (6), along with a reset button and performance metrics.

3. SETUP

Follow these steps to set up your MokerLink 10G Easy Web Managed Switch:

- 1. Unpack the Device:** Carefully remove the switch and all accessories from the packaging.
- 2. Choose a Location:** Place the switch on a stable, flat surface or mount it on a wall using appropriate hardware (not included). Ensure adequate ventilation around the device.
- 3. Connect Power:** Connect the provided power cable to the DC 12V input port on the switch and then plug it into a power outlet. The PWR LED indicator will light up.
- 4. Connect Network Devices:**
 - Connect your 2.5G compatible devices (e.g., gaming PCs, NAS) to ports 1-4 using Ethernet cables.
 - Connect your 10G compatible devices or uplink to a router/server to port 5 (10G RJ45) or port 6 (10G SFP+) using appropriate Ethernet or fiber optic cables/modules.
- 5. Verify Connections:** Check the Link/Act LEDs for each connected port. A solid green or yellow light

indicates a successful connection, and a blinking light indicates data transmission.



Figure 5: Illustration of connecting various devices like NAS, AP, gaming PC, and 8K video sources to the switch using CAT5e, CAT6, or CAT6a cables, and SFP modules for 10Gbps connections.

4. OPERATING INSTRUCTIONS (WEB MANAGEMENT)

The MokerLink 10G Easy Web Managed Switch offers a user-friendly web interface for configuration and monitoring. If no specific configuration is required, the switch operates as an unmanaged device.

Accessing the Web Interface

1. Ensure your computer is connected to one of the switch's Ethernet ports.
2. Open a web browser (e.g., Chrome, Firefox).
3. Enter the default IP address of the switch: **192.168.2.1**
4. Log in using the default credentials:
 - Username: **admin**
 - Password: **admin**

5. Upon successful login, you will access the web management interface. Remember to save any configuration changes and reboot the device for them to take effect.



Figure 6: Screenshot of the web management interface, showing device information and port status, with default login credentials highlighted.

Key L2 Management Features

The web interface allows you to configure various Layer 2 features:

- **Quality of Service (QoS):** Prioritize network traffic for critical applications (e.g., video, voice) to ensure smooth performance.
- **Access Control List (ACL):** Filter network traffic based on defined rules for enhanced security.
- **Link Aggregation Control Protocol (LACP):** Combine multiple physical links into a single logical link to increase bandwidth and provide redundancy.
- **Loop Detection:** Automatically detect and prevent network loops that can cause broadcast storms and network instability.
- **VLAN Configuration:** Create Virtual Local Area Networks to segment your network, improving security and performance.
- **Port Mirroring/Isolation/Rate-limit/Security:** Configure individual port settings for monitoring, traffic separation, bandwidth control, and access security.

- **Storm Control:** Prevent network performance degradation caused by excessive broadcast, multicast, or unknown unicast traffic.
- **Spanning Tree Protocol (STP):** Prevent network loops in redundant topologies.
- **SNMP:** Monitor network devices and manage network performance.

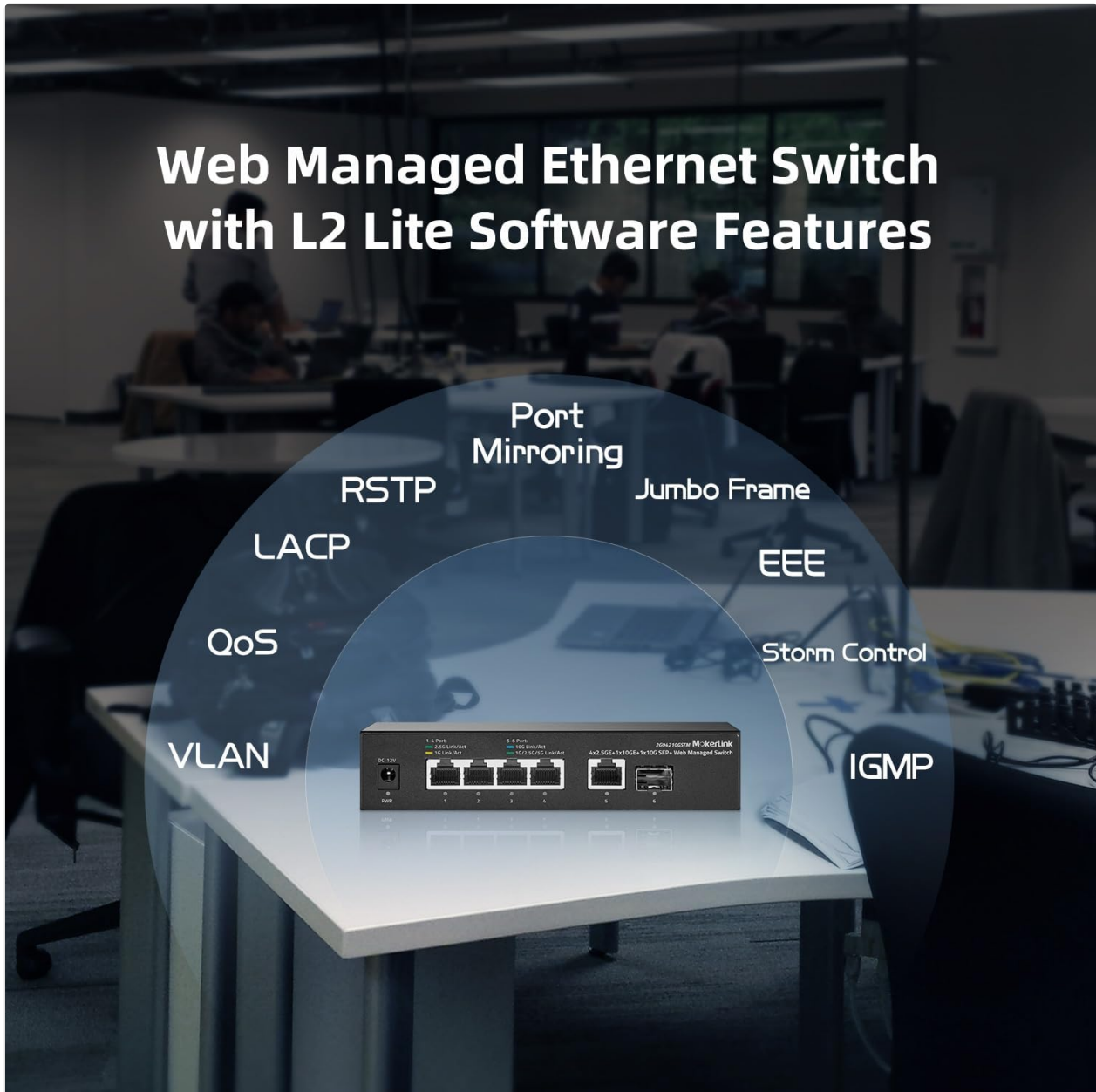


Figure 7: Diagram illustrating various L2 management features such as Port Mirroring, LACP, QoS, VLAN, IGMP, EEE, and Storm Control.

5. CONNECTIVITY AND APPLICATIONS

The MokerLink 10G Easy Web Managed Switch is designed for seamless integration into various network setups, enhancing performance for demanding applications.

Compatible Devices

- Desktop Computers
- Laptops
- Gaming Consoles
- Network Attached Storage (NAS) devices

- Servers
- Printers
- IP Cameras
- WiFi Access Points (APs)
- PCIe Adapters

Application Scenarios

This switch is well-suited for environments requiring high-bandwidth and low-latency connections:

- **Home Entertainment:** Stream 8K video content and enjoy online gaming without lag.
- **Small and Home Offices:** Facilitate fast data transfer and reliable connectivity for multiple workstations and servers.
- **Workstations:** Enable instant transfer of large files for video editing, graphic design, and other data-intensive tasks.

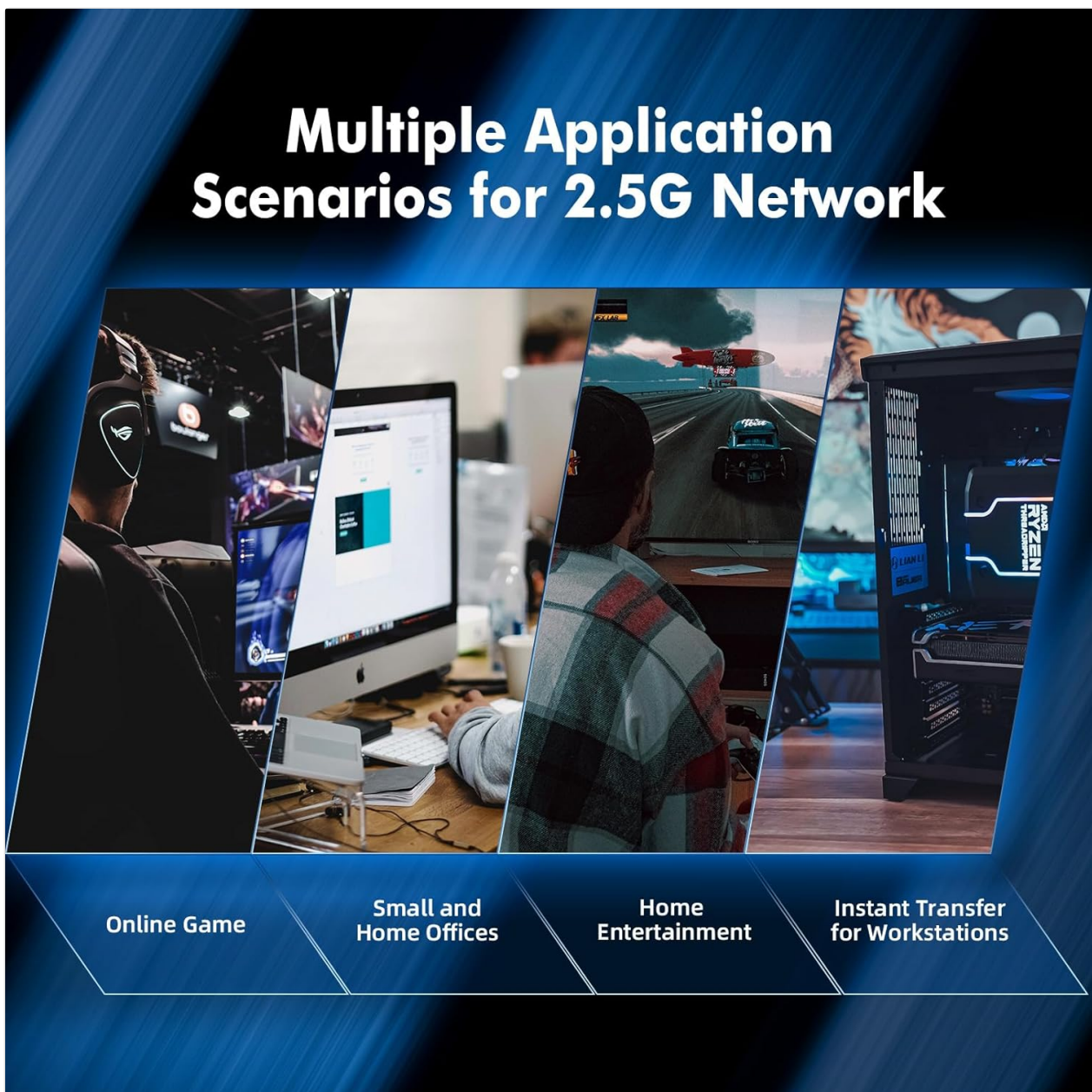


Figure 8: Examples of multiple application scenarios for 2.5G networks, including online gaming, small and home offices, home entertainment, and instant transfer for workstations.

6. SPECIFICATIONS

Feature	Description
Brand	MokerLink
Model Number	4*2.5G,10G RJ45,10G SFP Managed
Interface Type	SFP, RJ45
Number of Ports	6 (4x2.5G RJ45, 1x10G RJ45, 1x10G SFP)
Data Transfer Rate	60 Gigabits Per Second (Switching Capacity)
Color	Black
Item Weight	1.11 pounds
Package Dimensions	6.97 x 4.89 x 2.92 inches
Included Components	10G Managed Switch, Power Cable, User Manual
Compatible Devices	Camera, Desktop, Gaming Console, Laptop, Printer, Server

7. MAINTENANCE

The MokerLink 10G Easy Web Managed Switch is designed for minimal maintenance due to its robust construction and fanless operation.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the switch. Avoid using liquid or aerosol cleaners.
- **Ventilation:** Although fanless, ensure the ventilation slots on the sides of the device are not obstructed to allow for proper heat dissipation.
- **Environmental Conditions:** Operate the switch within recommended temperature and humidity ranges to ensure longevity.
- **Firmware Updates:** Periodically check the MokerLink official website for any available firmware updates to ensure optimal performance and security.

8. TROUBLESHOOTING

If you encounter issues with your MokerLink 10G Easy Web Managed Switch, refer to the following common troubleshooting steps:

- **No Power:**
 - Ensure the power cable is securely connected to the switch and a working power outlet.
 - Check if the power adapter is functioning correctly.
- **No Link/Activity LED:**
 - Verify that the Ethernet or fiber optic cable is securely connected to both the switch port and the connected device.
 - Ensure the connected device is powered on and functioning correctly.
 - Try a different cable or port to rule out cable or port issues.
- **Slow Network Speed:**

- Ensure you are using appropriate cables (CAT6A for 10G, CAT5e/CAT6 for 2.5G/1G) for your desired speed.
 - Check the Link/Act LED color to confirm the negotiated speed (refer to Figure 4 for LED indications).
 - Verify that your connected devices support the desired speeds (2.5G or 10G).
- **Cannot Access Web Interface:**
 - Confirm your computer's IP address is in the same subnet as the switch (e.g., 192.168.2.x).
 - Ensure you are using the correct default IP address (192.168.2.1) and login credentials (admin/admin).
 - If you have forgotten the password or made incorrect configurations, perform a factory reset by pressing and holding the reset button for 6 seconds (refer to Figure 4).

9. WARRANTY AND SUPPORT

MokerLink products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your product or visit the official MokerLink website. For technical support, product registration, or to download the latest drivers and firmware, please visit the MokerLink support page or contact their customer service.