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## Ubiquiti Networks USW-Pro-24

# Ubiquiti UniFi Switch Pro 24 (USW-Pro-24) Instruction Manual

Brand: Ubiquiti Networks | Model: USW-Pro-24

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Ubiquiti UniFi Switch Pro 24 (USW-Pro-24). The USW-Pro-24 is a fully managed Layer 3 switch designed for robust network environments, offering advanced switching capabilities and seamless integration with the UniFi Network Application.



Image 1.1: Front-top view of the Ubiquiti UniFi Switch Pro 24. This image displays the overall design of the switch, including its rack-mountable chassis and the front panel with ports and a small display.

## 2. PRODUCT OVERVIEW AND FEATURES

The UniFi Switch Pro 24 is a high-performance Layer 3 switch equipped with 24 Gigabit RJ45 ports and 2 10G SFP+ ports. It is designed to provide reliable and efficient connectivity for various network devices.

### Key Features:

- **24 Gigabit RJ45 Ports:** Provides standard Ethernet connectivity for numerous devices.
- **2 10G SFP+ Ports:** Offers high-speed fiber uplink connectivity for increased bandwidth and availability.
- **Layer 2 and Layer 3 Capabilities:** Supports advanced network functionalities including inter-VLAN routing, static routing, and DHCP server.
- **UniFi SmartPower RPS DC Input:** Provides an option for power redundancy to ensure continuous operation.
- **Near-Silent Cooling:** Designed for quiet operation, suitable for various deployment environments.
- **1.3" Touchscreen Display:** Offers quick status information and basic configuration options directly on the device.
- **Managed by UniFi Network Application:** Centralized management and monitoring through an intuitive graphical user interface.
- **Rack-Mountable Design:** Facilitates organized installation in standard server racks.

### Front Panel View:



Image 2.1: Detailed front view of the UniFi Switch Pro 24. This image highlights the 24 Gigabit RJ45 ports, the 2 SFP+ ports, the 1.3" touchscreen display on the left, and the reset button on the right.

### Rear Panel View:



Image 2.2: Detailed rear view of the UniFi Switch Pro 24. This image shows the AC power input connector and the UniFi SmartPower RPS DC input for power redundancy.

## 3. SETUP AND INSTALLATION

### 3.1 Package Contents

Verify the following items are included in your package:

- UniFi Switch Pro 24 (USW-Pro-24)
- Power Cord
- Rack-Mount Brackets (2)
- Bracket Screws (8)
- Cage Nuts (4)
- M4 Screws (4)

### 3.2 Hardware Installation

#### 1. Rack Mounting:

- Attach the two rack-mount brackets to the sides of the switch using the provided bracket screws.
- Secure the switch into a standard 19-inch rack using the cage nuts and M4 screws.

#### 2. Connect Power:

- Connect the included power cord to the AC power input on the rear panel of the switch.
- Plug the other end of the power cord into a suitable power outlet.
- *Optional:* For power redundancy, connect a UniFi SmartPower RPS unit to the DC input port on the rear panel.

### 3. Connect Network Cables:

- Connect your network devices (computers, servers, access points) to the 24 Gigabit RJ45 ports using Ethernet cables.
- For high-speed uplinks, insert compatible SFP+ modules into the 2 10G SFP+ ports and connect fiber optic cables to your core network or other SFP+ enabled devices.

## 3.3 Initial Configuration

The UniFi Switch Pro 24 is managed by the UniFi Network Application. Ensure you have the UniFi Network Application installed and running on a computer or UniFi Cloud Key within the same network segment as the switch. The switch will be automatically discovered or can be manually adopted within the application interface.

- Download the UniFi Network Application from the official Ubiquiti website if you do not already have it.
- Launch the application and follow the on-screen instructions to adopt and configure your USW-Pro-24.
- The 1.3" touchscreen display on the front panel provides basic status information and can assist with initial setup and troubleshooting.

## 4. OPERATING INSTRUCTIONS

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Once installed and adopted, the UniFi Switch Pro 24 operates as a central component of your network. All advanced configurations and monitoring are performed through the UniFi Network Application.

### 4.1 Network Management

- **UniFi Network Application:** Use the UniFi Network Application to manage all aspects of the switch, including:
  - Port configuration (speed, duplex, VLANs)
  - Layer 2 features (e.g., Link Aggregation, Spanning Tree Protocol)
  - Layer 3 features (e.g., Inter-VLAN Routing, Static Routing, DHCP Server)
  - Monitoring network traffic and device status
  - Firmware updates
- **Touchscreen Display:** The integrated 1.3" touchscreen provides real-time status information such as port activity, throughput, and system health. It can also be used for basic device control and rebooting.

## 5. MAINTENANCE

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Proper maintenance ensures the longevity and optimal performance of your UniFi Switch Pro 24.

- **Cleaning:** Periodically clean the exterior of the switch with a soft, dry cloth. Ensure ventilation openings are free from dust and obstructions to maintain efficient cooling. Do not use liquid cleaners or aerosols.
- **Firmware Updates:** Regularly check for and apply firmware updates through the UniFi Network Application. Updates often include performance improvements, security enhancements, and new features.
- **Environmental Conditions:** Operate the switch within the recommended temperature and humidity ranges specified in the technical specifications to prevent overheating or damage. The near-silent cooling system is designed to manage internal temperatures effectively under normal operating conditions.

## 6. TROUBLESHOOTING

If you encounter issues with your UniFi Switch Pro 24, refer to the following troubleshooting steps:

### 1. No Power:

- Verify the power cord is securely connected to both the switch and the power outlet.
- Check if the power outlet is functional.
- If using UniFi SmartPower RPS, ensure it is properly connected and operational.

### 2. No Network Connectivity:

- Check the Ethernet cables connected to the RJ45 ports for secure connections.
- Verify the SFP+ modules and fiber optic cables are correctly installed and functional.
- Confirm that the connected devices are powered on and configured correctly.
- Check port status indicators on the switch and within the UniFi Network Application.

### 3. Switch Not Adopted in UniFi Network Application:

- Ensure the switch and the device running the UniFi Network Application are on the same Layer 2 network segment or that appropriate routing is configured.
- Verify the switch has obtained an IP address (check the touchscreen display).
- Try restarting the UniFi Network Application or the switch.
- Perform a factory reset on the switch by pressing and holding the reset button for approximately 10 seconds (located on the front panel).

### 4. Performance Issues:

- Monitor network utilization through the UniFi Network Application to identify bottlenecks.
- Ensure firmware is up to date.
- Check for cable quality and ensure appropriate cable types are used for 10G SFP+ connections.

For further assistance, consult the Ubiquiti support resources or community forums.

## 7. SPECIFICATIONS

The following table details the technical specifications for the Ubiquiti UniFi Switch Pro 24 (USW-Pro-24).



Image 7.1: Dimensions of the UniFi Switch Pro 24. The image indicates a length of 17.4 inches, a depth of 11.2 inches, and a height of 1.7 inches.

Feature	Detail
Model	USW-Pro-24
Product Dimensions (L x W x H)	11.2" x 17.4" x 1.7"
Item Weight	7.72 Pounds
Voltage	240 Volts
Case Material	Metal
Maximum Power Consumption	30 Watts
Upper Temperature Rating	60 Degrees Celsius
Interface Type	RJ45, SFP+
Data Transfer Rate	44 Gigabits Per Second (Switching Capacity)
Number of Ports	24 (Gigabit RJ45) + 2 (10G SFP+)
Compatible Devices	Network devices
UPC	810010070821, 810010070562