UniFi® Network USW Pro PoE

DATASHEET




## 802.3at/bt PoE Gigabit Switches with Layer 3 Features and SFP+

Auto-Sensing IEEE 802.3af/at/bt PoE

SFP+ Ports for 10G Links

Integrated Fans for Near-Silent Cooling

Models: USW-Pro-24-PoE, USW-Pro-48-PoE

# Overview

Expand and power your network with the UniFi® Pro PoE Switch, part of the Ubiquiti® UniFi Enterprise System. It is available in two models:

- **USW-Pro-24-PoE** 24 RJ45 ports with 2 SFP+ ports
- **USW-Pro-48-PoE** 48 RJ45 ports with 4 SFP+ ports

## Layer 3 Features

In addition to Layer 2 switching protocols and features, the UniFi Pro PoE Switch offers Layer 3 capabilities[1], such as inter-VLAN routing, static routing, and DHCP server functionality.

[1] *Available with future firmware upgrade.*

## Near-Silent Cooling

The UniFi Pro PoE Switch can be located in any workspace. Its integrated fans have built-in PWM (Power Management) control, air ducts and covers, and temperature sensors for the best user experience.

## Fiber Connectivity

SFP+ ports enable high-capacity uplinks of up to 10 Gbps, so you can directly connect to a high-performance storage server or deploy a long-distance uplink to another switch.

## 802.3bt PoE++

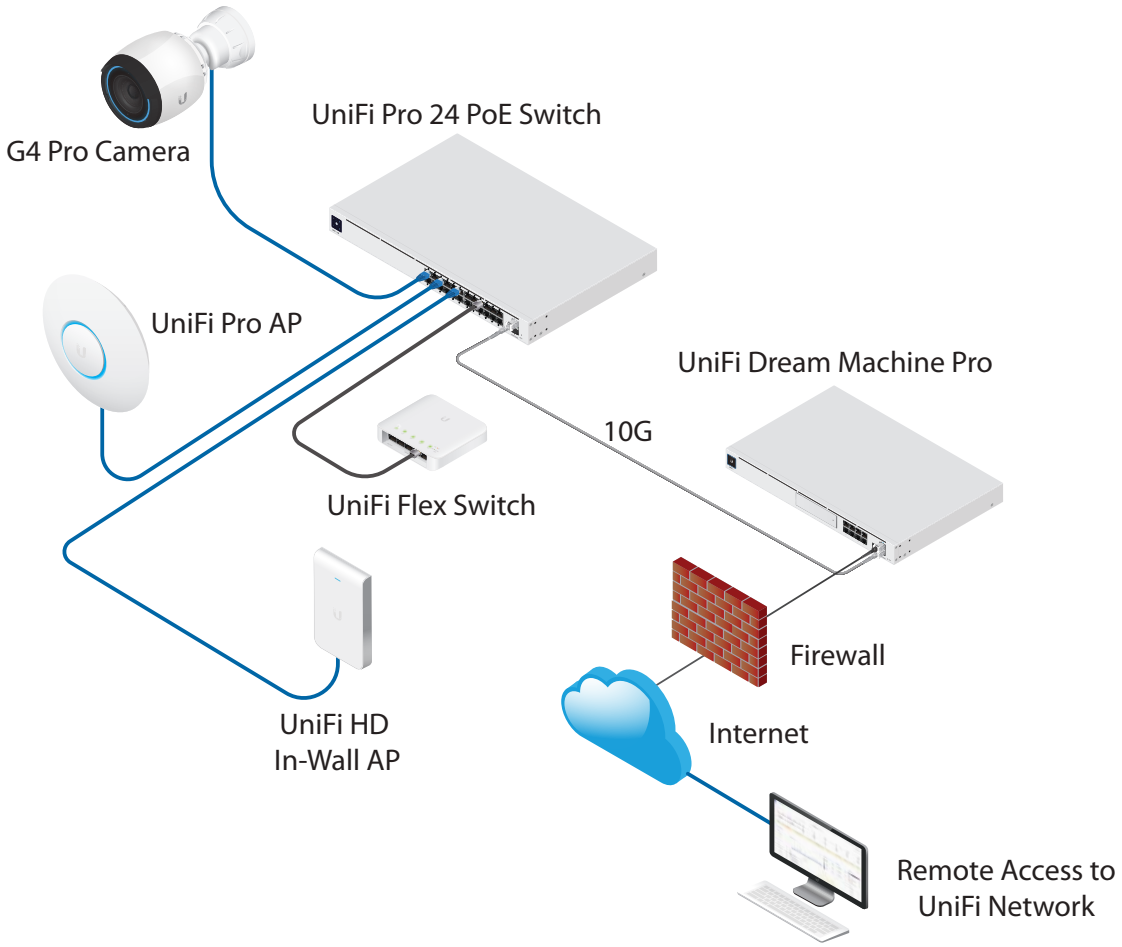
PoE support simplifies your network infrastructure and cabling. Eight ports offer 802.3bt PoE++ to provide up to 64W of power (per port) to your high-power PoE devices. Remaining ports offer 802.3af/at PoE.

## Power Supply Redundancy

The UniFi Pro PoE Switch supports our PSU failover system, the UniFi SmartPower RPS, model USP-RPS. If the internal power supply unit fails, the proprietary USP RPS interface acts to provide redundant power for backup[2].

[2] *Requires use of the USP-RPS (coming soon).*

## Deployment Example




*The USW-Pro-24-PoE powers the UniFi Video Camera G4 Pro, UniFi AC Pro AP, and UniFi AC IW AP with 802.3af/at PoE, while delivering 802.3bt PoE++ to the USW-Flex.*

## UniFi Pro 24-Port PoE Switch

- (16) Gigabit RJ45 ports with 802.3af/at
- (8) Gigabit RJ45 ports with 802.3bt
- (2) 1/10G SFP+ ports
- 1U Rackmountable (hardware included)



*USW-Pro-24-PoE*

## UniFi Pro 48-Port PoE Switch

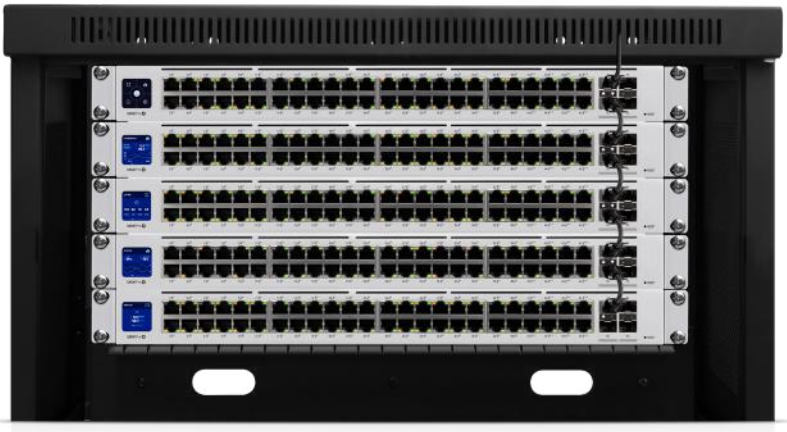
- (40) Gigabit RJ45 ports with 802.3af/at
- (8) Gigabit RJ45 ports with 802.3bt
- (4) 1/10G SFP+ ports
- 1U Rackmountable (hardware included)



*USW-Pro-48-PoE*

## Innovative Display

The 1.3" touchscreen displays status information for easy monitoring and quick troubleshooting.







# Scalable UniFi Network Controller

## Management Capabilities

The UniFi Network Controller can provision UniFi devices, map out networks, and quickly manage system traffic. Important network details are logically organized for a simplified, yet powerful, interface.

## Network Overview

From a single pane of glass, view network topology and configuration, real-time statistics, and debugging metrics. Monitor your network's vitals and make on-the-fly adjustments as needed.

## Deep Packet Inspection

Ubiquiti's proprietary Deep Packet Inspection (DPI) engine includes the latest application identification signatures to track which applications (and IP addresses) are using the most bandwidth.

## Detailed Analytics

The UniFi Network Controller provides configurable reporting and analytics to manage large user populations and expedite troubleshooting. Advanced search and sorting capabilities make network management more efficient.

## Multi-Site Management

A single controller running in the cloud can manage multiple sites: multiple, distributed deployments and multi-tenancy for managed service providers. Each site is logically separated and has its own configuration, maps, statistics, guest portal, and administrator accounts.

## Switch Configuration

You can access any managed UniFi Switch through the UniFi Controller to configure a variety of features:

- Operation mode (switching, mirroring, or aggregate) per port
- Network/VLAN configuration
- Jumbo frame and flow control services
- Network settings
- Storm control setting per port
- Spanning tree configuration
- 802.1X control and RADIUS VLAN
- Debug terminal option for command-line interface

## Switch Port Status

You can also view status information for each port:

- Connection speed and duplex mode
- TX/RX data rates
- Network/VLAN setting

## Software Features

The UniFi Network Controller software offers the following features:

- Centralized configuration management (including configuration cloning)
- Auto-MDIX automatically adjusts as needed for straight through or crossover cable
- 802.1X (RADIUS) authentication and dynamic VLAN

Download on the App Store

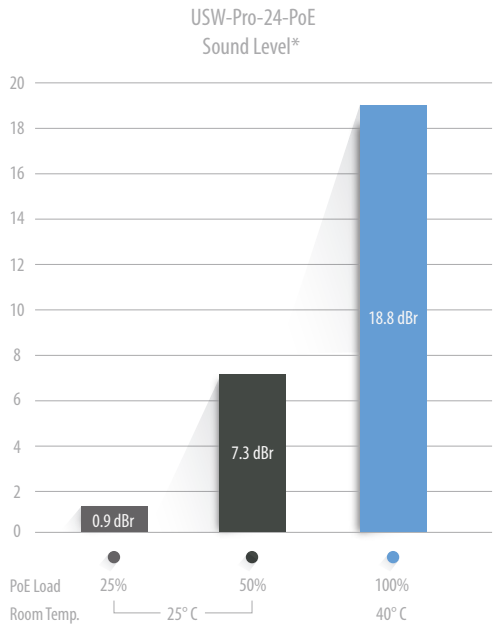
GET IT ON Google Play

| USW-Pro-24-PoE | |
|---|---|
| Dimensions | 442.4 x 285.4 x 43.7 mm<br>(17.42 x 11.24 x 1.72") |
| Weight<br>With Brackets | 4.30 kg (9.48 lb)<br>4.39 kg (9.68 lb) |
| Interfaces<br>Networking<br><br>Management | <br>(24) 10/100/1000 RJ45 Ports<br>(2) 1/10G SFP+ Ethernet Ports<br>Ethernet In-Band |
| Total Non-Blocking Throughput | 44 Gbps |
| Switching Capacity | 88 Gbps |
| Forwarding Rate | 65.472 Mpps |
| Power Method<br>Universal Input<br>USP RPS DC Input | <br>100-240VAC, 50/60 Hz<br>52VDC, 7.69A; 11.5VDC, 2.61A |
| Power Supply | AC/DC, Internal, 450W |
| Voltage Range | 100 to 240VAC |
| Max Power Consumption (Excluding PoE Output) | 50W |
| LEDs<br>System<br>RJ45 Data Ports<br>SFP+ Data Ports | <br>Status<br>PoE; Speed/Link/Activity<br>Link/Activity |
| ESD/EMP Protection | Air: ± 16 kV, Contact: ± 12 kV |
| Shock and Vibration | ETSI300-019-1.4 Standard |
| Operating Temperature | -5 to 40° C (23 to 104° F) |
| Operating Humidity | 10 - 90% Noncondensing |
| Certifications | CE, FCC, IC |

| PoE | |
|---|---|
| Total Available PoE | 400W |
| PoE Interfaces<br>Ports 1-16<br><br>Ports 17-24<br>802.3af/at<br>802.3bt | <br>PoE+ IEEE 802.3af/at<br>(Pins 1, 2+; 3, 6-)<br>60W PoE++ IEEE 802.3af/at/bt<br>(Pins 1, 2+; 3, 6-)<br>(Pair A 1, 2+; 3, 6-) (Pair B 4 , 5+; 7, 8-) |
| Max. PoE Wattage per Port by PSE<br>802.3at<br>802.3bt | <br>32W<br>64W |
| Voltage Range<br>802.3af Mode<br>802.3at/bt Mode | <br>44-57V<br>50-57V |







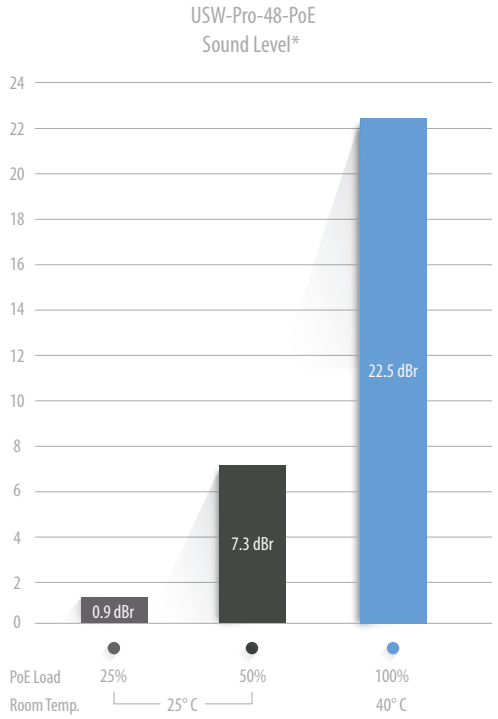

* *Background noise level: 27.5 dBa*

| USW-Pro-48-PoE | |
|---|---|
| Dimensions | 442.4 x 399.6 x 43.7 mm<br>(17.42 x 15.73 x 1.72") |
| Weight<br>With Brackets | 6.25 kg (13.78 lb)<br>6.34 kg (13.98 lb) |
| Interfaces<br>Networking<br><br>Management | <br>(48) 10/100/1000 RJ45 Ports<br>(4) 1/10G SFP+ Ethernet Ports<br>Ethernet In-Band |
| Total Non-Blocking Throughput | 88 Gbps |
| Switching Capacity | 176 Gbps |
| Forwarding Rate | 130.944 Mpps |
| Power Method<br>Universal Input<br>USP RPS DC Input | <br>100-240VAC, 50/60 Hz<br>52VDC, 11.54A; 11.5VDC, 5.22A |
| Power Supply | AC/DC, Internal, 660W |
| Voltage Range | 100 to 240VAC |
| Max Power Consumption (Excluding PoE Output) | 60W |
| LEDs<br>System<br>RJ45 Data Ports<br>SFP+ Data Ports | <br>Status<br>PoE; Speed/Link/Activity<br>Link/Activity |
| ESD/EMP Protection | Air: ± 16 kV, Contact: ± 12 kV |
| Shock and Vibration | ETSI300-019-1.4 Standard |
| Operating Temperature | -5 to 40° C (23 to 104° F) |
| Operating Humidity | 10 - 90% Noncondensing |
| Certifications | CE, FCC, IC |

| PoE | |
|---|---|
| Total Available PoE | 600W |
| PoE Interfaces<br>Ports 1-40<br><br>Ports 41-48<br>802.3af/at<br>802.3bt | <br>PoE+ IEEE 802.3af/at<br>(Pins 1, 2+; 3, 6-)<br>60W PoE++ IEEE 802.3af/at/bt<br>(Pins 1, 2+; 3, 6-)<br>(Pair A 1, 2+; 3, 6-) (Pair B 4 , 5+; 7, 8-) |
| Max. PoE Wattage per Port by PSE<br>802.3at<br>802.3bt | <br>32W<br>64W |
| Voltage Range<br>802.3af Mode<br>802.3at/bt Mode | <br>44-57V<br>50-57V |








* *Background noise level: 27.5 dBa*

Specifications are subject to change. Ubiquiti products are sold with a limited warranty described at: ui.com/support/warranty
The limited warranty requires the use of arbitration to resolve disputes on an individual basis, and, where applicable, specify arbitration instead of jury trials or class actions.
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