



## 802.3at PoE Gigabit Switches with SFP

Auto-Sensing IEEE 802.3af/at PoE

SFP Ports for Gigabit Fiber Connectivity

Fanless, Silent Thermal Cooling

Models: USW-16-PoE, USW-24-PoE



## Overview

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

- **USW-16-PoE** 16 RJ45 ports with 2 SFP ports
- **USW-24-PoE** 24 RJ45 ports with 2 SFP ports

## Compact Form Factor

Measuring only 7.9" in depth, the UniFi PoE Switch is designed for convenient installation:

- rackmounted in a SOHO rack cabinet
- placed on a desktop

## Fiber Connectivity

SFP ports enable network uplinks of up to 1 Gbps.

## Fanless, Silent Cooling

The UniFi PoE Switch features fanless, silent thermal cooling\*, so it can be deployed in areas where fan noise would be distracting.

\* Fanless switches must not be stacked.

## Switching Performance

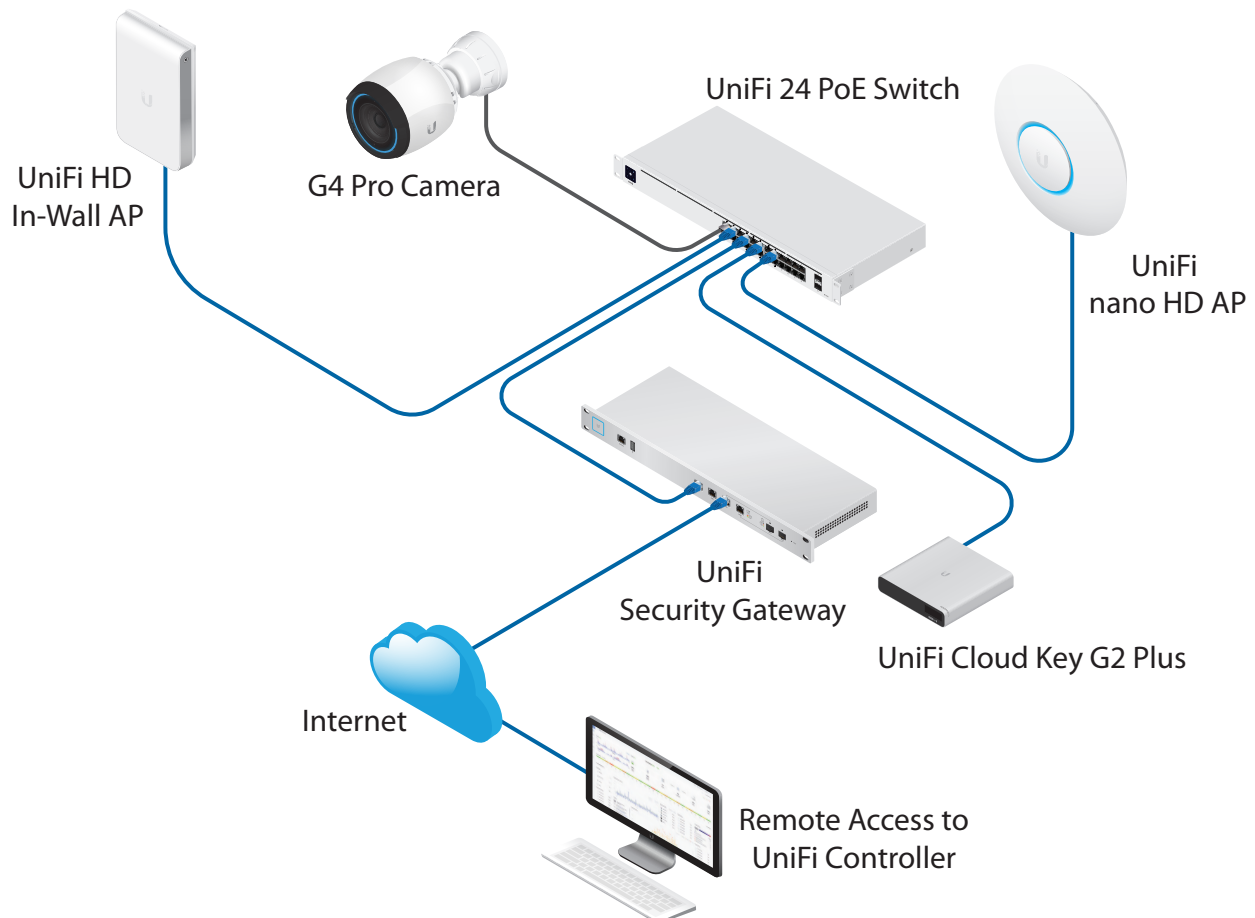
The UniFi PoE Switch offers the forwarding capacity to simultaneously process traffic on all ports at line rate without any packet loss.

## 802.3af/at PoE

PoE support simplifies your network infrastructure and cabling. PoE ports offer 802.3af/at to power your PoE devices, such as UniFi APs and cameras.

|                           | USW-16-PoE | USW-24-PoE |
|---------------------------|------------|------------|
| Number of PoE Ports       | 8          | 16         |
| Total Available PoE       | 42W        | 95W        |
| Max. PoE Wattage per Port | 32W        | 32W        |

## Deployment Example



The UniFi 24 PoE Switch powers the UniFi nano HD AP, UniFi HD In-Wall AP, G4 Pro Camera, and UniFi Cloud Key G2 Plus.

### UniFi 16-Port PoE Switch

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



USW-16-PoE

### UniFi 24-Port PoE Switch

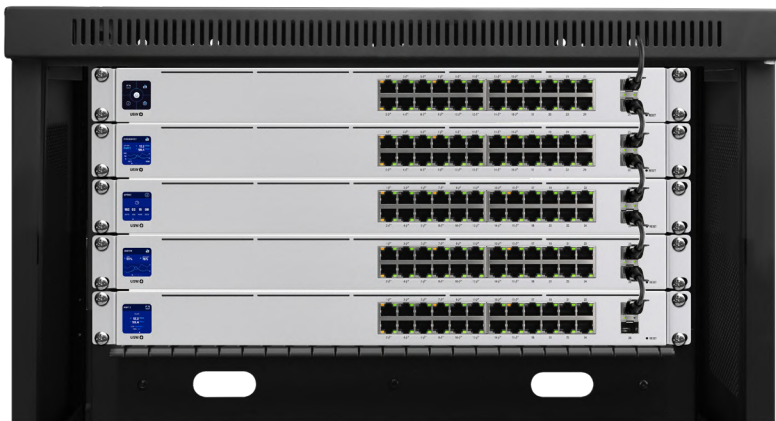
- (16) Gigabit RJ45 ports with 802.3af/at
- (8) Gigabit RJ45 ports
- (2) 1G SFP ports
- 1U Rackmountable (hardware included)



USW-24-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



| USW-16-PoE                                      |                                                 |
|-------------------------------------------------|-------------------------------------------------|
| Dimensions                                      | 442.4 x 200 x 43.7 mm<br>(17.42 x 7.87 x 1.72") |
| Weight                                          | 2.80 kg (6.17 lb)                               |
| With Brackets                                   | 2.89 kg (6.37 lb)                               |
| Interfaces                                      | (16) 10/100/1000 RJ45 Ports                     |
| Networking                                      | (2) 1G SFP Ethernet Ports                       |
| Management                                      | Ethernet In-Band                                |
| Total Non-Blocking Throughput                   | 18 Gbps                                         |
| Switching Capacity                              | 36 Gbps                                         |
| Forwarding Rate                                 | 26.78 Mpps                                      |
| Power Method                                    | 100-240VAC, 50/60 Hz, Universal Input           |
| Power Supply                                    | AC/DC, Internal, 60W                            |
| Voltage Range                                   | 100 to 240VAC                                   |
| Max Power Consumption<br>(Excluding PoE Output) | 18W                                             |
| LEDs                                            | Status                                          |
| System                                          | PoE; Speed/Link/Activity                        |
| RJ45 Data Ports                                 | Link/Activity                                   |
| SFP Data Ports                                  |                                                 |
| 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              | 42W                                         |
| PoE Interfaces                   |                                             |
| Ports 1-8                        | POE+ IEEE 802.3af/at<br>(pins 1, 2+; 3, 6-) |
| Max. PoE Wattage per Port by PSE |                                             |
| 802.3af                          | 32W                                         |
| 802.3at                          |                                             |
| Voltage Range                    |                                             |
| 802.3af Mode                     | 44-57V                                      |
| 802.3at Mode                     | 50-57V                                      |



| USW-24-PoE                                   |                                                 |
|----------------------------------------------|-------------------------------------------------|
| Dimensions                                   | 442.4 x 200 x 43.7 mm<br>(17.42 x 7.87 x 1.72") |
| Weight                                       | 3.00 kg (6.61 lb)                               |
| With Brackets                                | 3.09 kg (6.81 lb)                               |
| Interfaces                                   | (24) 10/100/1000 RJ45 Ports                     |
| Networking                                   | (2) 1G SFP Ethernet Ports                       |
| Management                                   | Ethernet In-Band                                |
| Total Non-Blocking Throughput                | 26 Gbps                                         |
| Switching Capacity                           | 52 Gbps                                         |
| Forwarding Rate                              | 38.69 Mpps                                      |
| Power Method                                 | 100-240VAC, 50/60 Hz, Universal Input           |
| Power Supply                                 | AC/DC, Internal, 120W                           |
| Voltage Range                                | 100 to 240VAC                                   |
| Max Power Consumption (Excluding PoE Output) | 25W                                             |
| LEDs                                         | Status                                          |
| System                                       | PoE; Speed/Link/Activity                        |
| RJ45 Data Ports                              | Link/Activity                                   |
| SFP Data Ports                               |                                                 |
| ESD/EMP Protection                           | Air: $\pm 16$ kV, Contact: $\pm 12$ 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              | 95W                  |
| PoE Interfaces                   | PoE+ IEEE 802.3af/at |
| Ports 1-16                       | (pins 1, 2+; 3, 6-)  |
| Max. PoE Wattage per Port by PSE |                      |
| 802.3af                          | 32W                  |
| 802.3at                          |                      |
| Voltage Range                    |                      |
| 802.3af Mode                     | 44-57V               |
| 802.3at Mode                     | 50-57V               |

