



### 10-Port Durable Switch with High-Power 802.3bt PoE++

Auto-Sensing IEEE 802.3af/at/bt PoE

Fanless Industrial-Grade Design

Plenum-Rated Form Factor



## Overview

Expand and power your network with the UniFi® Industrial Switch, part of the Ubiquiti® UniFi Enterprise System. The USW-Industrial is a configurable Gigabit Layer 2 switch with auto-sensing, high-power 802.bt PoE++.

## Switching Performance

The USW-Industrial offers the forwarding capacity to simultaneously process traffic on all ports at line rate without any packet loss.

## PoE++ Flexibility

The USW-Industrial features ten Gigabit RJ45 ports to deliver robust performance and intelligent switching for enterprise networks.

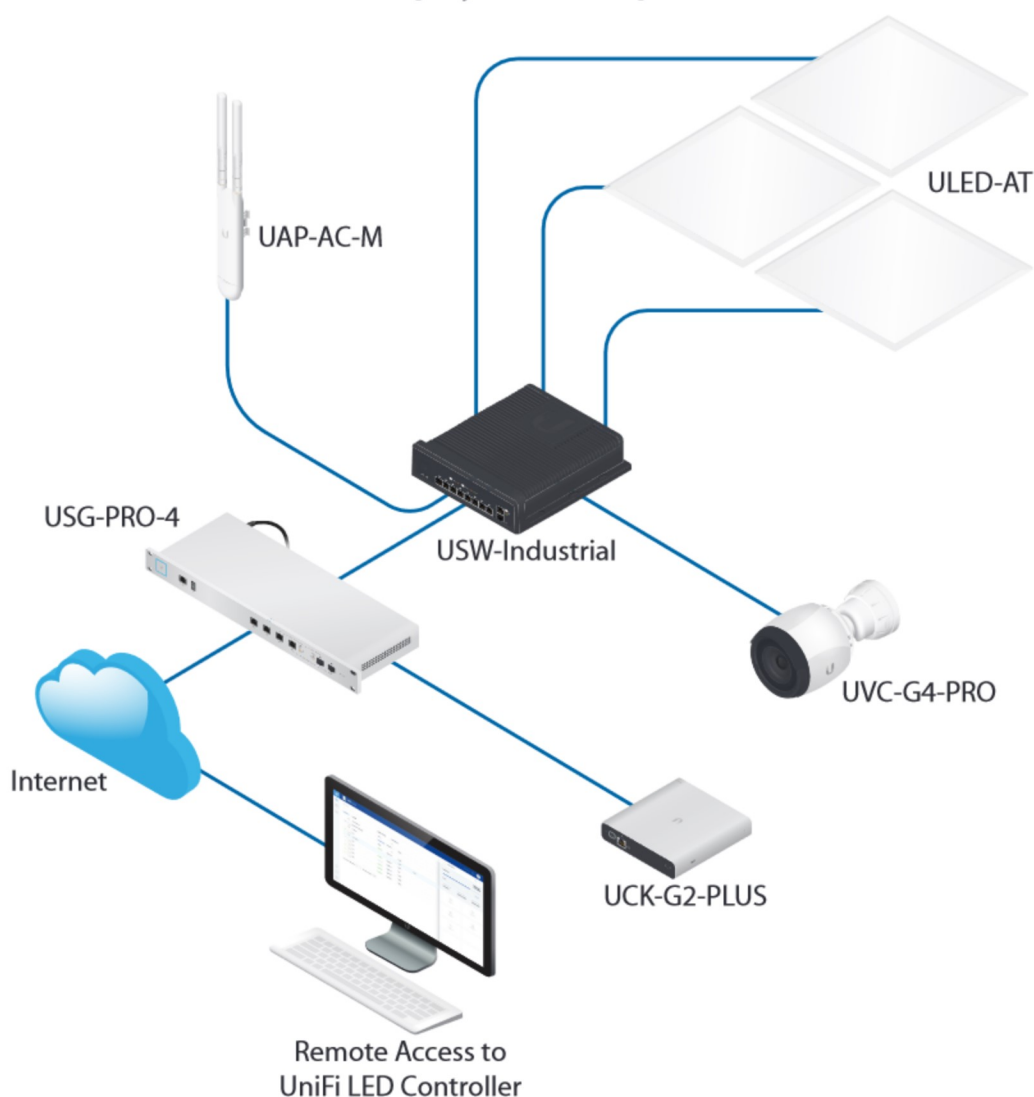
Eight of those ports offer 802.3bt PoE++ to provide up to 60W of power (per port) to your high-power PoE devices. Products requiring 802.3af or 802.3at PoE, such as UniFi LED Panels, are also supported.

## Ruggedized Industrial Design

The fanless USW-Industrial is plenum-rated so it can be installed in a horizontal or vertical orientation in plenum spaces.

Its die-cast aluminum enclosure has a black, powder coated finish. This provides greater resistance to corrosion and durability in environments with extreme temperature variations.

## Deployment Example



*The USW-Industrial powers the UniFi AC Mesh AP, UniFi Cloud Key Gen2 Plus, UniFi Video Camera G4 Pro, and multiple UniFi LED Panels, which use 802.3at PoE+.*



## 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-Industrial                                |                                                                                          |
|-----------------------------------------------|------------------------------------------------------------------------------------------|
| Dimensions                                    | 254 x 235 x 60 mm (10 x 9.25 x 2.36")                                                    |
| Weight                                        | 3.85 kg (8.49 lb)                                                                        |
| Enclosure Characteristics                     | Die-Cast Aluminum (ADC12) with Black Powder Coated Finish                                |
| Interfaces                                    | (8) 10/100/1000 802.3bt PoE RJ45 Ports<br>(2) 10/100/1000 RJ45 Ports<br>Ethernet In-Band |
| Networking                                    |                                                                                          |
| Management                                    |                                                                                          |
| Total Non-Blocking Throughput                 | 10 Gbps                                                                                  |
| Switching Capacity                            | 20 Gbps                                                                                  |
| Forwarding Rate                               | 14.88 Mpps                                                                               |
| Power Method                                  | 100 - 240 VAC, 50/60 Hz Universal Input                                                  |
| Power Supply                                  | AC/DC, Internal, 450W DC                                                                 |
| Supported Voltage Range                       | AC Input: 100 to 240VAC, Max. 6A                                                         |
| Max. Power Consumption (Excluding PoE Output) | 20W                                                                                      |
| LEDs                                          | System Status<br>RJ45 Ports PoE, Speed/Link/Activity                                     |
| System                                        |                                                                                          |
| RJ45 Ports                                    |                                                                                          |
| ESD/EMP Protection                            | Air: ± 24 kV, Contact: ± 24 kV                                                           |
| Shock and Vibration                           | ETSI300-019-1.4 Standard                                                                 |
| Operating Temperature                         | -40 to 50° C (-40 to 122° F)<br>-40 to 60° C (-40 to 140° F)                             |
| Internal AC/DC @ 450W                         |                                                                                          |
| Internal AC/DC @ 240W                         |                                                                                          |
| Operating Humidity                            | 5 to 95% Noncondensing                                                                   |
| Certifications                                | FCC, IC                                                                                  |

| PoE                              |                                                                   |
|----------------------------------|-------------------------------------------------------------------|
| PoE Interfaces                   | PoE++ IEEE 802.3bt<br>(Pair A 1, 2+; 3, 6-) (Pair B 4, 5+; 7, 8-) |
| Max. PoE Wattage per Port by PSE | 802.3bt 60W                                                       |
| Voltage Range 802.3 PoE Mode     | 50-57V                                                            |
| Max. Total PoE Power Budget      | 430W                                                              |

