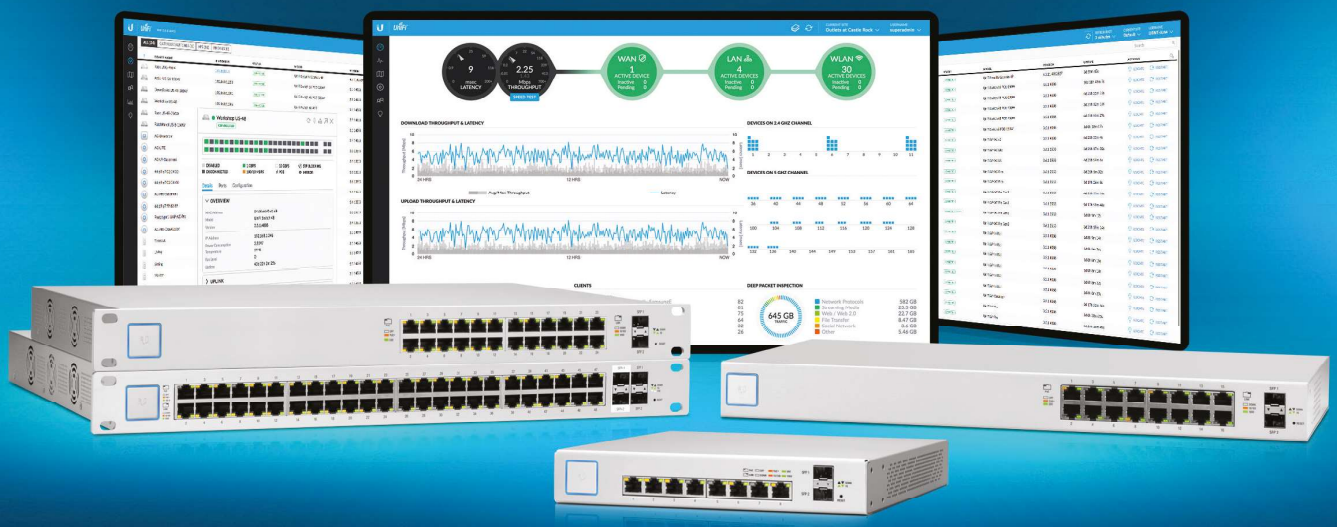
DATASHEET



UniFi® | SWITCH

Managed PoE+ Gigabit Switches with SFP

Models: US-8-150W, US-16-150W, US-24-250W, US-24-500W, US-48-500W, US-48-750W

Non-Blocking Throughput Switching Performance

Gigabit Ethernet RJ45 and SFP+/SFP Ports

Auto-Sensing IEEE 802.3af/at PoE

UBIQUITI® NETWORKS

DATASHEET

UniFi® SWITCH

UniFi® | SWITCH

Build and expand your network with Ubiquiti Networks® UniFi® Switch, part of the UniFi line of products. The UniFi Switch is a fully managed, PoE+ Gigabit switch, delivering robust performance and intelligent switching for growing networks.

Switching Performance

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

PoE+ Flexibility

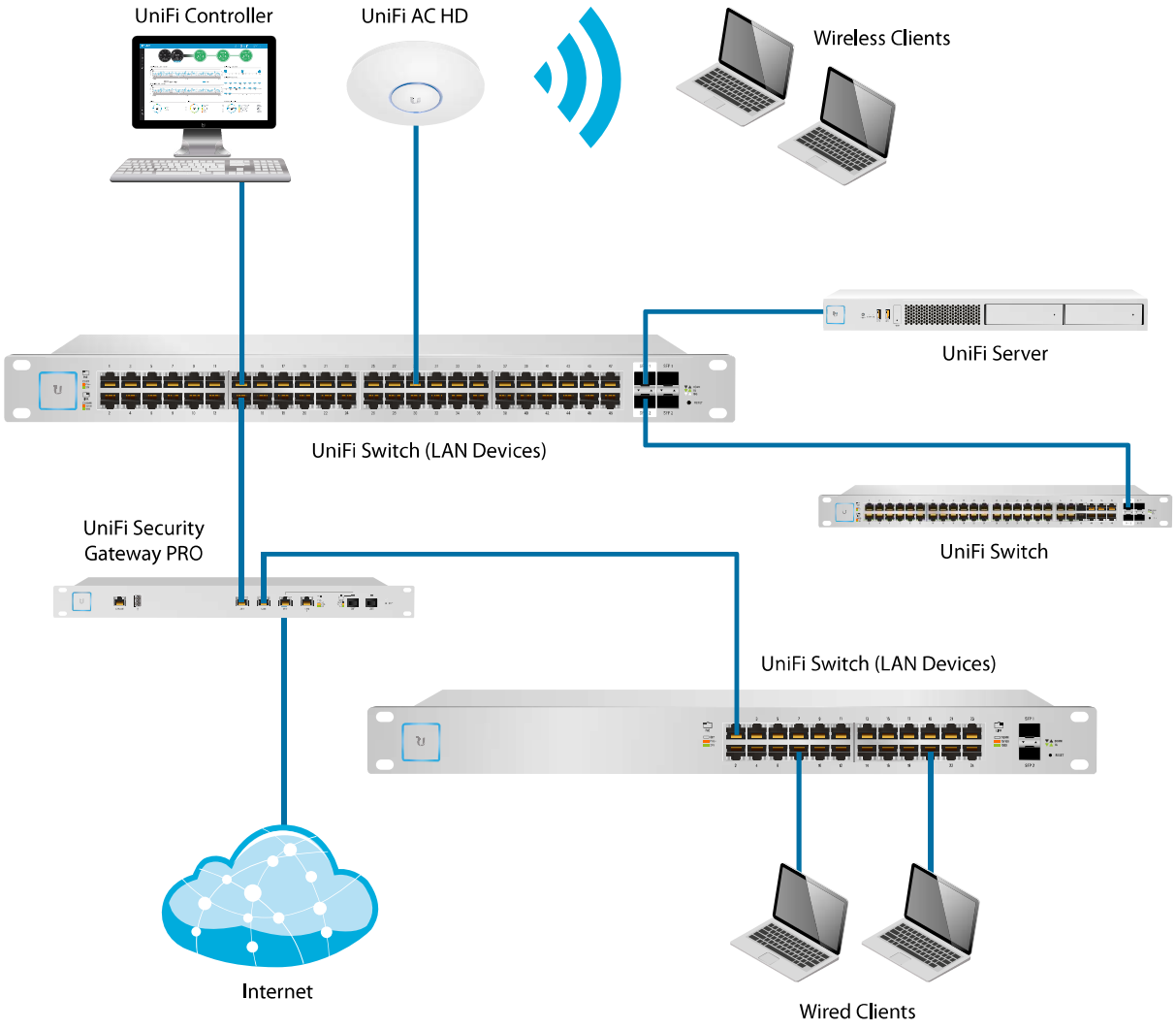
The UniFi Switch models are available with 8, 16, 24, or 48 PoE Gigabit Ethernet ports of auto-sensing IEEE 802.3af/at or configurable 24V passive PoE to simplify your infrastructure.

By default, the UniFi Switch automatically detects 802.3af/at devices so they automatically receive PoE. For 24V passive PoE devices, manually enable 24V passive PoE using the UniFi Controller software.

Fiber Connectivity

The UniFi Switch provides fiber connectivity options for easy expansion of your networks. Each UniFi Switch model includes two SFP ports for uplinks of up to 1 Gbps.

Each 48-port model adds two SFP+ ports for 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.



UniFi Controller

Designed for convenient management, the UniFi Controller software allows admins to configure and monitor the UniFi Switch and other UniFi devices using a graphical user interface. You can download the controller from **www.ubnt.com** at no additional charge – there is no separate software, licensing, or support fee.

Multi-Site Management

A single instance of the UniFi Controller running in the cloud can manage multiple UniFi sites within a centralized interface. Each site is logically separated and has its own unique network monitoring, configuration, maps, statistics, and admin accounts.

Switch Configuration

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

- PoE setting per port
- Operation mode (switching, mirroring, or aggregate) per port
- Network/VLAN configuration
- Jumbo frame and flow control configuration
- Network settings
- Storm control setting per port
- Spanning tree configuration

Switch Port Status

You can also view status information for each port:

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

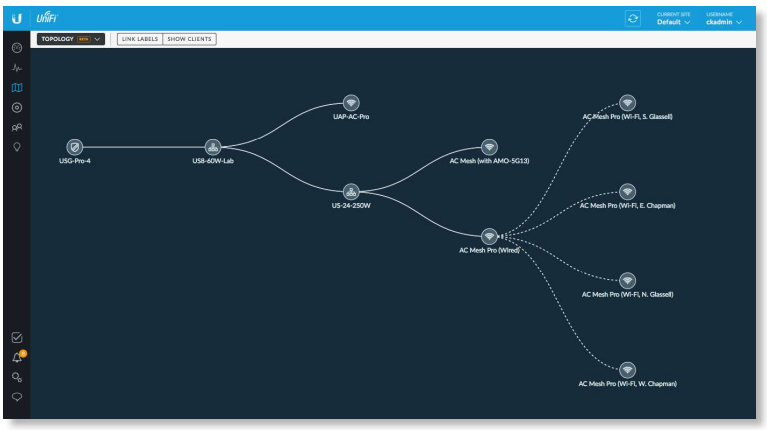
Software Features

The UnIFi 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

Statistics

The *Switch Statistics* screen displays a graphical overview of all LAN throughput for each port on the selected switch. Under the same pane of glass, it also shows LAN, WLAN, and Internet traffic, including the breakdown of protocols being used (requires a UniFi Security Gateway).



Topology View

The *Topology* screen displays a topology diagram of your UniFi system. You can filter the type of information displayed, such as client devices, labels, and link settings.

- Auto-generated topology view
- Centralized statistics in controller
- RSTP and Spanning Tree Protocol
- SNMP
- Storm control (independent broadcast, multicast, and unknown destination unicast limits per port)
- 802.3x flow control
- 9216-byte jumbo frame support
- VLAN support
- Port mirroring
- Port aggregation (LACP)
- Port isolation (protected port) for port-level isolation

DATASHEET

UniFi | SWITCH

UniFi® | SWITCH

Model: US-8-150W

- (8) Gigabit RJ45 Ports
- (2) SFP Ports
- Non-Blocking Throughput: 10 Gbps
- Switching Capacity: 20 Gbps
- Forwarding Rate: 14.88 Mpps
- Maximum Power Consumption: 150W
- Supports PoE+ IEEE 802.3at/af and 24V Passive PoE
- Quiet, Fanless Operation
- Desktop-Mountable (Do not physically stack the US-8-150W.)

Model: US-16-150W

- (16) Gigabit RJ45 Ports
- (2) SFP Ports
- (1) Serial Console Port
- Non-Blocking Throughput: 18 Gbps
- Switching Capacity: 36 Gbps
- Forwarding Rate: 26.78 Mpps
- Maximum Power Consumption: 150W
- Supports PoE+ IEEE 802.3at/af and 24V Passive PoE
- Rack-Mountable or Wall-Mountable with Rack-Mount Brackets (Included)

Model: US-24-250W

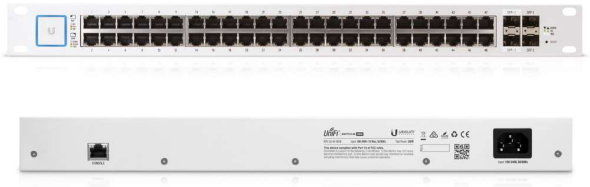
- (24) Gigabit RJ45 Ports
- (2) SFP Ports
- (1) Serial Console Port
- Non-Blocking Throughput: 26 Gbps
- Switching Capacity: 52 Gbps
- Forwarding Rate: 38.69 Mpps
- Maximum Power Consumption: 250W
- Supports PoE+ IEEE 802.3at/af and 24V Passive PoE
- Rack-Mountable

Model: US-24-500W

- (24) Gigabit RJ45 Ports
- (2) SFP Ports
- (1) Serial Console Port
- Non-Blocking Throughput: 26 Gbps
- Switching Capacity: 52 Gbps
- Forwarding Rate: 38.69 Mpps
- Maximum Power Consumption: 500W
- Supports PoE+ IEEE 802.3at/af and 24V Passive PoE
- Rack-Mountable

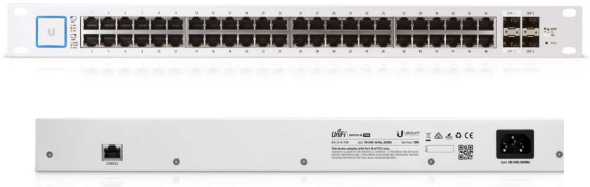
Model: US-48-500W

- (48) Gigabit RJ45 Ports
- (2) SFP+ Ports
- (2) SFP Ports
- (1) Serial Console Port
- Non-Blocking Throughput: 70 Gbps
- Switching Capacity: 140 Gbps
- Forwarding Rate: 104.16 Mpps
- Maximum Power Consumption: 500W
- Supports PoE+ IEEE 802.3at/af and 24V Passive PoE
- Rack-Mountable



Model: US-48-750W

- (48) Gigabit RJ45 Ports
- (2) SFP+ Ports
- (2) SFP Ports
- (1) Serial Console Port
- Non-Blocking Throughput: 70 Gbps
- Switching Capacity: 140 Gbps
- Forwarding Rate: 104.16 Mpps
- Maximum Power Consumption: 750W
- Supports PoE+ IEEE 802.3at/af and 24V Passive PoE
- Rack-Mountable



Model Comparison Chart

	US-8	US-8-60W	US-8-150W	US-16-150W	US-24	US-24-250W US-24-500W	US-48	US-48-500W US-48-750W
Gigabit RJ45 Ports	8	8	8	16	24	24	48	48
SFP Ports			2	2	2	2	2	2
SFP+ Ports							2	2
Sound Level* (dBr)	0.7 (fanless)	0.6 (fanless)	0.5 (fanless)	1.7 - 10.8	1.6 - 9.2	9.1 - 21.2 9.3 - 21.6	0.7 - 13.5	10.7 - 23.6 12.1 - 24.7

* Background noise level: 27.5 dBa

Specifications

US-8-150W		
Dimensions	235 x 43 x 204 mm (9.25 x 1.69 x 8.03")	
Weight	1.65 kg (3.67 lb)	
Networking Interfaces	(8) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports	
Management Interface	Ethernet In-Band	
Total Non-Blocking Throughput	10 Gbps	
Switching Capacity	20 Gbps	
Forwarding Rate	14.88 Mpps	
MAC Address Table	16384	
Maximum Aggregations	6	
Monitoring Sessions	1	
Maximum VLANs	255	
Power Method	100-240VAC/50-60 Hz, Universal Input	
Power Supply	AC/DC, Internal, 150W DC	
Max. Power Consumption	Including PoE Output	Excluding PoE Output
	150W	20W
LEDs Per Port	RJ45 Data Ports	SFP Data Ports
	PoE, Speed/Link/Activity	Speed/Link/Activity
Sound Level*	0.5 dBr (Fanless)	
ESD/EMP Protection	Air: ± 24 kV, Contact: ± 24 kV	
Shock and Vibration	ETSI300-019-1.4 Standard	
Operating Temperature	-5 to 45° C (23 to 113° F)	
Operating Humidity	5 to 95% Noncondensing	
Certifications	CE, FCC, IC	

* Background noise level: 27.5 dBa

PoE+ Per Port	
PoE Interfaces	PoE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-) 24VDC Passive PoE (Pins 4, 5+; 7, 8-)
Max. PoE+ Wattage per Port by PSE	34.2W
Voltage Range 802.3at Mode	50–57V
Max. Passive PoE Wattage per Port	17W
24V Passive PoE Voltage Range	20-27V

Specifications

US-16-150W		
Dimensions	443 x 43 x 221 mm (17.44 x 1.69 x 8.70")	
Weight	Rack-Mount Brackets Excluded	Rack-Mount Brackets Included
	2.80 kg (6.17 lb)	2.89 kg (6.37 lb)
Networking Interfaces	(16) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports	
Management Interface	Ethernet In-Band	
Total Non-Blocking Throughput	18 Gbps	
Switching Capacity	36 Gbps	
Forwarding Rate	26.78 Mpps	
MAC Address Table	16384	
Maximum Aggregations	6	
Monitoring Sessions	1	
Maximum VLANs	255	
Power Method	100-240VAC/50-60 Hz, Universal Input	
Power Supply	AC/DC, Internal, 150W DC	
Max. Power Consumption	Including PoE Output	Excluding PoE Output
	150W	28W
LEDs Per Port	RJ45 Data Ports	SFP Data Ports
	PoE, Speed/Link/Activity	Speed/Link/Activity
Sound Level*	Fan Level: 0	Fan Level: 1, 2, 3
	1.7 dBr	10.8 dBr
ESD/EMP Protection	Air: ± 24 kV, Contact: ± 24 kV	
Shock and Vibration	ETSI300-019-1.4 Standard	
Operating Temperature	-5 to 40° C (23 to 104° F)	
Operating Humidity	5 to 95% Noncondensing	
Certifications	CE, FCC, IC	

* Background noise level: 27.5 dBa

PoE+ Per Port	
PoE Interfaces	PoE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-) 24VDC Passive PoE (Pins 4, 5+; 7, 8-)
Max. PoE+ Wattage per Port by PSE	34.2W
Voltage Range 802.3at Mode	50–57V
Max. Passive PoE Wattage per Port	17W
24V Passive PoE Voltage Range	20-27V

Specifications

US-24-250W				
Dimensions	485 x 43.7 x 285.4 mm (19.09 x 1.72 x 11.24")			
Weight	4.7 kg (10.4 lb)			
Networking Interfaces	(24) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports			
Management Interface	(1) RJ45 Serial Port Out-of-Band, Ethernet In-Band			
Total Non-Blocking Throughput	26 Gbps			
Switching Capacity	52 Gbps			
Forwarding Rate	38.69 Mpps			
MAC Address Table	16384			
Maximum Aggregations	6			
Monitoring Sessions	1			
Maximum VLANs	255			
Power Method	100-240VAC/50-60 Hz, Universal Input			
Power Supply	AC/DC, Internal, 250W DC			
Max. Power Consumption	Including PoE Output		Excluding PoE Output	
	250W		30W	
LEDs Per Port	RJ45 Data Ports		SFP Data Ports	
	PoE, Speed/Link/Activity		Speed/Link/Activity	
Sound Level*	Fan Level 0	Fan Level 1	Fan Level 2	Fan Level 3
	9.1 dBr	14.2 dBr	16.8 dBr	21.2 dBr
ESD/EMP Protection	Air: ± 24 kV, Contact: ± 24 kV			
Shock and Vibration	ETSI300-019-1.4 Standard			
Operating Temperature	-5 to 40° C (23 to 104° F)			
Operating Humidity	5 to 95% Noncondensing			
Certifications	CE, FCC, IC			

* Background noise level: 27.5 dBa

PoE+ Per Port	
PoE Interfaces	PoE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-) 24VDC Passive PoE (Pins 4, 5+; 7, 8-)
Max. PoE+ Wattage per Port by PSE	34.2W
Voltage Range 802.3at Mode	50–57V
Max. Passive PoE Wattage per Port	17W
24V Passive PoE Voltage Range	20-27V

Specifications

US-24-500W				
Dimensions	485 x 43.7 x 285.4 mm (19.09 x 1.72 x 11.24")			
Weight	4.8 kg (10.6 lb)			
Networking Interfaces	(24) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports			
Management Interface	(1) RJ45 Serial Port Out-of-Band, Ethernet In-Band			
Total Non-Blocking Throughput	26 Gbps			
Switching Capacity	52 Gbps			
Forwarding Rate	38.69 Mpps			
MAC Address Table	16384			
Maximum Aggregations	6			
Monitoring Sessions	1			
Maximum VLANs	255			
Power Method	100-240VAC/50-60 Hz, Universal Input			
Power Supply	AC/DC, Internal, 500W DC			
Max. Power Consumption	Including PoE Output		Excluding PoE Output	
	500W		30W	
LEDs Per Port	RJ45 Data Ports		SFP Data Ports	
	PoE, Speed/Link/Activity		Speed/Link/Activity	
Sound Level*	Fan Level 0	Fan Level 1	Fan Level 2	Fan Level 3
	9.3 dBr	15.2 dBr	17.9 dBr	21.6 dBr
ESD/EMP Protection	Air: ± 24 kV, Contact: ± 24 kV			
Shock and Vibration	ETSI300-019-1.4 Standard			
Operating Temperature	-5 to 40° C (23 to 104° F)			
Operating Humidity	5 to 95% Noncondensing			
Certifications	CE, FCC, IC			

* Background noise level: 27.5 dBa

PoE+ Per Port	
PoE Interfaces	PoE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-) 24VDC Passive PoE (Pins 4, 5+; 7, 8-)
Max. PoE+ Wattage per Port by PSE	34.2W
Voltage Range 802.3at Mode	50–57V
Max. Passive PoE Wattage per Port	17W
24V Passive PoE Voltage Range	20-27V

Specifications

US-48-500W				
Dimensions	485 x 43.7 x 374.6 mm (19.09 x 1.72 x 14.75")			
Weight	6.1 kg (13.5 lb)			
Networking Interfaces	(48) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1/10 Gbps SFP+ Ethernet Ports (2) 1 Gbps SFP Ethernet Ports			
Management Interface	(1) RJ45 Serial Port Out-of-Band, Ethernet In-Band			
Total Non-Blocking Throughput	70 Gbps			
Switching Capacity	140 Gbps			
Forwarding Rate	104.16 Mpps			
MAC Address Table	16384			
Maximum Aggregations	6			
Monitoring Sessions	1			
Maximum VLANs	255			
Power Method	100-240VAC/50-60 Hz, Universal Input			
Power Supply	AC/DC, Internal, 500W DC			
Max. Power Consumption	Including PoE Output		Excluding PoE Output	
	500W		64W	
LEDs Per Port	RJ45 Data Ports		SFP Data Ports	
	PoE, Speed/Link/Activity		Speed/Link/Activity	
Sound Level*	Fan Level 0	Fan Level 1	Fan Level 2	Fan Level 3
	10.7 dBr	16.2 dBr	19.3 dBr	23.6 dBr
ESD/EMP Protection	Air: ± 24 kV, Contact: ± 24 kV			
Shock and Vibration	ETSI300-019-1.4 Standard			
Operating Temperature	-5 to 40° C (23 to 104° F)			
Operating Humidity	5 to 95% Noncondensing			
Certifications	CE, FCC, IC			

* Background noise level: 27.5 dBa

PoE+ Per Port	
PoE Interfaces	PoE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-) 24VDC Passive PoE (Pins 4, 5+; 7, 8-)
Max. PoE+ Wattage per Port by PSE	34.2W
Voltage Range 802.3at Mode	50–57V
Max. Passive PoE Wattage per Port	17W
24V Passive PoE Voltage Range	20-27V

Specifications

US-48-750W				
Dimensions	485 x 43.7 x 374.6 mm (19.09 x 1.72 x 14.75")			
Weight	6.5 kg (14.3 lb)			
Networking Interfaces	(48) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1/10 Gbps SFP+ Ethernet Ports (2) 1 Gbps SFP Ethernet Ports			
Management Interface	(1) RJ45 Serial Port Out-of-Band, Ethernet In-Band			
Total Non-Blocking Throughput	70 Gbps			
Switching Capacity	140 Gbps			
Forwarding Rate	104.16 Mpps			
MAC Address Table	16384			
Maximum Aggregations	6			
Monitoring Sessions	1			
Maximum VLANs	255			
Power Method	100-240VAC/50-60 Hz, Universal Input			
Power Supply	AC/DC, Internal, 750W DC			
Max. Power Consumption	Including PoE Output		Excluding PoE Output	
	750W		64W	
LEDs Per Port	RJ45 Data Ports		SFP Data Ports	
	PoE, Speed/Link/Activity		Speed/Link/Activity	
Sound Level*	Fan Level 0	Fan Level 1	Fan Level 2	Fan Level 3
	12.1 dBr	18.1 dBr	21.6 dBr	24.7 dBr
ESD/EMP Protection	Air: ± 24 kV, Contact: ± 24 kV			
Shock and Vibration	ETSI300-019-1.4 Standard			
Operating Temperature	-5 to 40° C (23 to 104° F)			
Operating Humidity	5 to 95% Noncondensing			
Certifications	CE, FCC, IC			

* Background noise level: 27.5 dBa

PoE+ Per Port	
PoE Interfaces	PoE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-) 24VDC Passive PoE (Pins 4, 5+; 7, 8-)
Max. PoE+ Wattage per Port by PSE	34.2W
Voltage Range 802.3at Mode	50–57V
Max. Passive PoE Wattage per Port	17W
24V Passive PoE Voltage Range	20-27V

UniFi AP and Video Camera Compatibility

The UniFi Switch is compatible with UniFi Access Points and UniFi G3 Video Cameras, as detailed below.

AP/Camera Model	US-8	US-8-60W	US-8-150W	US-16-150W	US-24-250W	US-24-500W	US-48-500W	US-48-750W
UVC-G3			✓	✓	✓	✓	✓	✓
UVC-G3-AF	✓	✓	✓	✓	✓	✓	✓	✓
UVC-G3-DOME	✓	✓	✓	✓	✓	✓	✓	✓
UVC-G3-FLEX	✓	✓	✓	✓	✓	✓	✓	✓
UVC-G3-PRO	✓	✓	✓	✓	✓	✓	✓	✓
UAP			✓	✓	✓	✓	✓	✓
UAP-LR			✓	✓	✓	✓	✓	✓
UAP-PRO	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-LITE [1]	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-LR [1]	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-PRO	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-M	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-M-PRO	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-IW [2]	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-IW-PRO [2]	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-HD	–	–	✓	✓	✓	✓	✓	✓

✓ Compatible with the UniFi switch

 Requires Instant 802.3af Gigabit PoE Converter: INS-3AF-I-G  or INS-3AF-O-G 

Notes:

[1] UAP-AC-LITE and UAP-AC-LR models manufactured before September 2016 require the Instant 802.3af Gigabit PoE Converter.

[2] For the UAP-AC-IW and UAP-AC-IW-PRO, PoE passthrough is supported by all of the switches listed above except for models US-8 and US-8-60W.

Related Product Datasheets

UniFi Switch 8, UniFi Switch 8-60W:

dl.ubnt.com/datasheets/unifi/UniFi_Switch_8_DS.pdf

UniFi AC APs:

dl.ubnt.com/datasheets/unifi/UniFi_AC_APs_DS.pdf

UniFi G3 Video Cameras:

dl.ubnt.com/datasheets/unifi/UniFi_Video_G3_DS.pdf

www.ubnt.com

DATASHEET

UniFi® | SWITCH 8

Fully Managed Gigabit Switches

Models: US-8, US-8-60W

Non-Blocking Throughput Switching Performance

Gigabit Ethernet RJ45 Ports

Robust Performance for Enterprise Networks

wallfuture solutions

+351 217 604 400 consultacomercial@wallfuture.com WWW.WALLFUTURE.COM

DATASHEET

UniFi | SWITCH 8

UniFi® | SWITCH

Overview

Build and expand your network with Ubiquiti Networks® UniFi® Switch, part of the UniFi line of products.

The new 8-port models feature Gigabit Ethernet ports in a compact form factor. The switches are fully manageable, delivering robust performance and intelligent switching for your networks.

Switching Performance

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

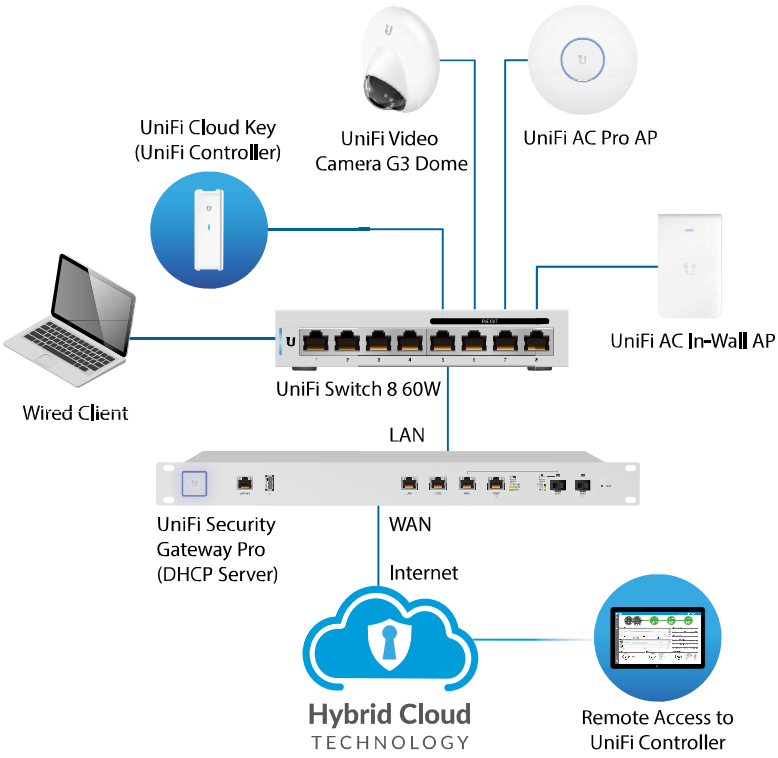
For its total, non-blocking throughput, each UniFi Switch supports up to 8 Gbps with a switching capacity of 16 Gbps.

PoE

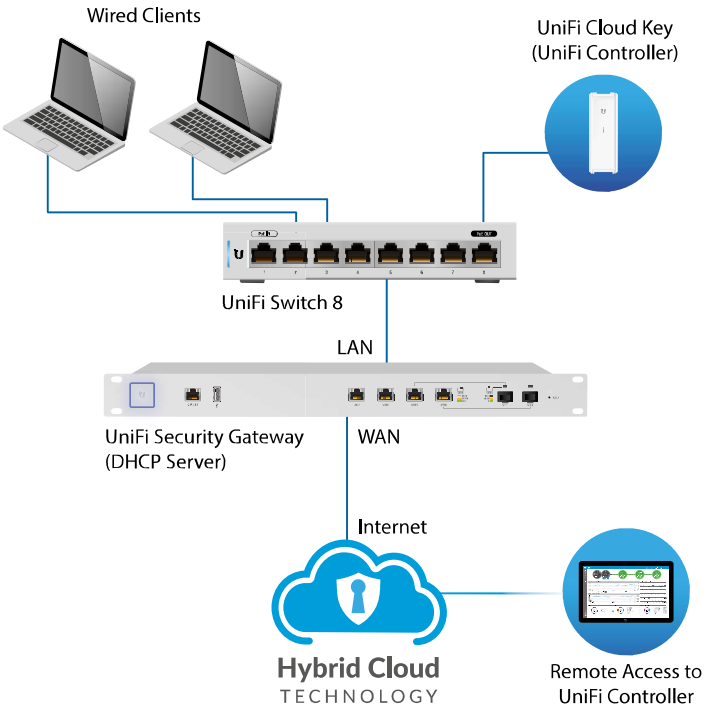
The US-8 can be powered by 802.3af/at PoE, 48V passive PoE, or the included power adapter*. 48V passive PoE passthrough is supported on port 8.

Port 8 can deliver up to 12W of power when powered by 802.3at PoE+, 48V passive PoE, or the included power adapter*. (If the power source is 802.3af PoE, then the PoE output budget will be less than 12W.)

The US-8-60W is powered by its included power adapter. It has four auto-sensing PoE ports delivering up to 15.4W of power per port.



US-8-60W Sample Network Diagram



US-8 Sample Network Diagram

* *Included only in single-packs of the US-8.*

UniFi Controller

Designed for convenient management, the UniFi Controller software allows admins to configure and monitor the UniFi Switch and other UniFi devices using a graphical user interface. You can download it from **www.ubnt.com** at no extra charge – there is no separate software, licensing, or support fee.

Multi-Site Management

A single instance of the UniFi Controller running in the cloud can manage multiple UniFi sites within a centralized interface. Each site is logically separated and has its own network monitoring, configuration, maps, statistics, and admin accounts.

Switch Configuration

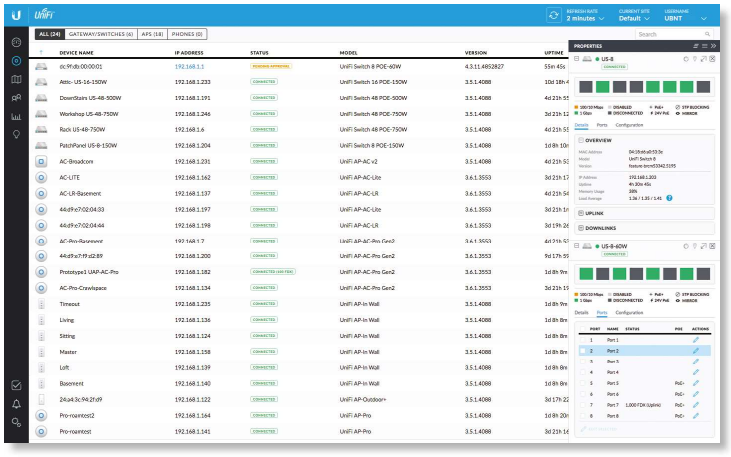
You can access any managed UniFi Switch through the UniFi Controller to configure a variety of features:

- 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

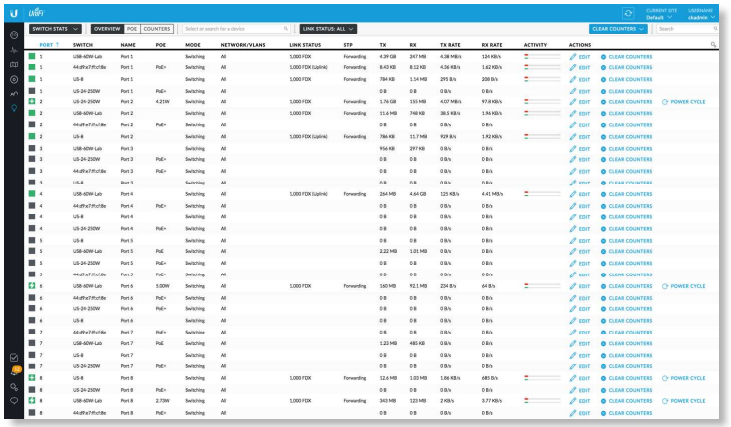


Device Configuration

The *Devices* screen displays the UniFi devices discovered by the UniFi Controller. You can access each managed device for device details and configuration.

Statistics

The *Switch Statistics* screen displays a graphical overview of all LAN throughput for each port on the selected switch. Under the same pane of glass, it also shows LAN, WLAN, and Internet traffic, including the breakdown of protocols being used (requires a UniFi Security Gateway).



Insights

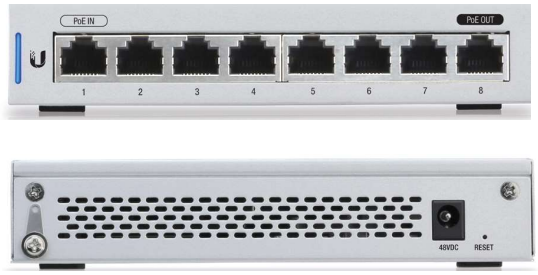
On the *Insights* screen, the *Switch Stats* filter displays information about the status, ports, PoE, and traffic activity of the UniFi Switches.

Models

UniFi SWITCH 8

Model: US-8

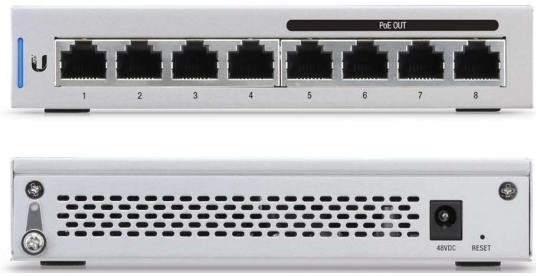
- (8) Gigabit RJ45 Ports
- (1) PoE Passthrough Port
- Non-Blocking Throughput: 8 Gbps
- Switching Capacity: 16 Gbps
- Forwarding Rate: 11.9 Mpps
- Maximum Power Consumption: 12W
- PoE or DC Input Option
- Available in Single-Pack and 5-Pack
  (Power Supply Not Included with 5-Pack)



UniFi SWITCH 8 60W

Model: US-8-60W

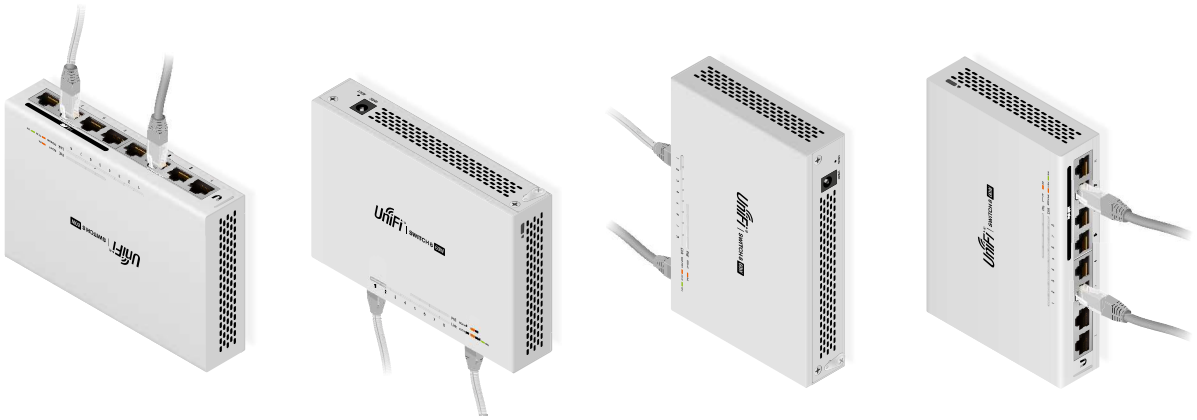
- (8) Gigabit RJ45 Ports
- (4) Auto-Sensing IEEE 802.3af PoE Ports
- Non-Blocking Throughput: 8 Gbps
- Switching Capacity: 16 Gbps
- Forwarding Rate: 11.9 Mpps
- Maximum Power Consumption: 12W
- Available in Single-Pack and 5-Pack



Mounting Versatility

The UniFi Switch offers the following mounting options:

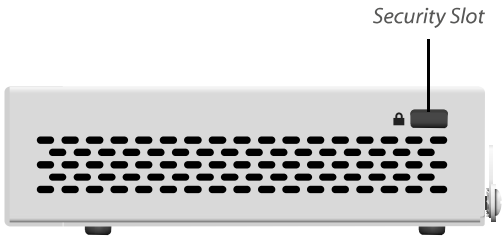
- **Wall Mounting** You can attach the UniFi Switch to a vertical surface using the included wall-mounting hardware. You can position the switch so that the ports face in any of four directions: up, down, left, or right.



- **Desktop Placement** You can place the UniFi Switch on a level, horizontal surface such as a table or desktop. The built-in, non-skid rubber feet help hold the switch firmly in place.

Security Slot

To help deter theft, you can attach a lock to the security slot on the side of the UniFi Switch.



Specifications

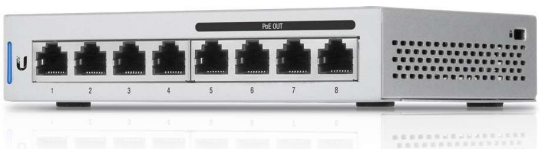
US-8	
Dimensions	148.0 x 99.5 x 30.7 mm (5.83 x 3.92 x 1.21")
Weight	432 g (15.24 oz)
Enclosure Characteristics	SGCC Steel
Total Non-Blocking Throughput	8 Gbps
Switching Capacity	16 Gbps
Forwarding Rate	11.9 Mpps
Max. Power Consumption	12W (Excluding PoE Output)
Max. Passive PoE Wattage per Port	PoE Mode 1: 12W @ 802.3at PoE Mode 2: 12W @ 48V DC Input Mode: 12W @ 48V
Passive PoE Voltage Range	Depends on Power Source
Power Method	(1) DC 48V, Max. 1.25A (1) PoE Input, 802.3 af/at (Pins +1, 2; -3, 6)
Supported Voltage Range	DC: 48V; 48V Mode: 56V to 40V
Power Supply	External AC/DC Adapter[1]: 100-240VAC, 50/60 Hz; 48VDC, 0.5A
LEDs	PoE (Port 8), Speed/Link/Activity (All Ports)
Sound Level[2]	0.7 dBr (Fanless)
Networking Interfaces	(8) 10/100/1000 Mbps RJ45 Ports
PoE In Interface (Port 1)	PoE Mode 1: 802.3af/at (Pins +1, 2; -3, 6) PoE Mode 2: 48V (Pins +4, 5; -7, 8)
PoE Out Interface (Port 8)	PoE Mode 1: 48V (Pins +1, 2; -3, 6) PoE Mode 2: Passive 48V (Pins +4, 5; -7, 8) DC Input Mode: DC Passthrough (Pins +1, 2; -3, 6)
Management Interface	Ethernet In-Band Management
ESD/EMP Protection	Air: ± 24 kV, Contact: ± 24 kV
Operating Temperature	-5 to 45° C (23 to 113° F)
Operating Humidity	5 to 95% Noncondensing
Shock and Vibration	ETSI300-019-1.4 Standard
Certifications	CE, FCC, IC

[1] *Included only in single-packs of the US-8.*
[2] *Background noise level: 27.5 dBa*

Specifications

US-8-60W	
Dimensions	148.0 x 99.5 x 30.7 mm (5.83 x 3.92 x 1.21")
Weight	432 g (15.24 oz)
Enclosure Characteristics	SGCC Steel
Total Non-Blocking Throughput	8 Gbps
Switching Capacity	16 Gbps
Forwarding Rate	11.9 Mpps
Max. Power Consumption	12W (Excluding PoE Output)
Max. PoE Wattage per Port	15.4W
Power Method	48VDC, Max. 2A
Supported Voltage Range	57VDC to 44VDC
Power Supply	External AC/DC Adapter: 100-240VAC, 50/60 Hz; 48VDC, 1.25A
LEDs	PoE (Port 8), Speed/Link/Activity (All Ports)
Sound Level*	0.6 dBr (Fanless)
Networking Interfaces	(8) 10/100/1000 Mbps RJ45 Ports
PoE Interfaces	(4) Ports 5, 6, 7, 8; IEEE802.3af
ESD/EMP Protection	Air: ± 24 kV, Contact: ± 24 kV
Operating Temperature	-5 to 45° C (23 to 113° F)
Operating Humidity	5 to 95% Noncondensing
Shock and Vibration	ETSI300-019-1.4 Standard
Certifications	CE, FCC, IC

* *Background noise level: 27.5 dBa*



DATASHEET

UniFi | SWITCH 8

UniFi AP and Video Camera Compatibility

The UniFi Switch is compatible with UniFi Access Points and UniFi G3 Video Cameras, as detailed below.

AP/Camera Model	US-8	US-8-60W	US-8-150W	US-16-150W	US-24-250W	US-24-500W	US-48-500W	US-48-750W
UVC-G3			✓	✓	✓	✓	✓	✓
UVC-G3-AF	✓	✓	✓	✓	✓	✓	✓	✓
UVC-G3-DOME	✓	✓	✓	✓	✓	✓	✓	✓
UAP			✓	✓	✓	✓	✓	✓
UAP-LR			✓	✓	✓	✓	✓	✓
UAP-PRO	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-LITE [1]	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-LR [1]	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-PRO	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-M	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-M-PRO	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-IW [2]	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-IW-PRO [2]	✓	✓	✓	✓	✓	✓	✓	✓
UAP-AC-HD	–	–	✓	✓	✓	✓	✓	✓

✓ Compatible with the UniFi switch

 Requires Instant 802.3af Gigabit PoE Converter: INS-3AF-I-G  or INS-3AF-O-G 

Notes:

1. UAP-AC-LITE and UAP-AC-LR models manufactured before September 2016 require the Instant 802.3af Gigabit PoE Converter.

2. For the UAP-AC-IW and UAP-AC-IW-PRO, PoE passthrough is supported by all of the switches listed above except for models US-8 and US-8-60W.

Related Product Datasheets

UniFi PoE Switches:

dl.ubnt.com/datasheets/unifi/UniFi_PoE_Switch.pdf

UniFi AC APs:

dl.ubnt.com/datasheets/unifi/UniFi_AC_APs_DS.pdf

UniFi G3 Video Cameras:

dl.ubnt.com/datasheets/unifi/UniFi_Video_G3_DS.pdf

ui.com

DATASHEET

UniFi® | SWITCH 16 XG

10G 16-Port Managed Aggregation Switch

Model: US-16-XG

Non-Blocking Throughput Switching

Maximum Performance and Low Latency

10G Ethernet SFP+ and RJ45 Ports

DATASHEET

UniFi® | SWITCH 16 XG

10G Aggregation Switch for Enterprise Networks

Build and expand your network with Ubiquiti Networks® UniFi® Switch 16 XG, part of the UniFi Enterprise System. The US-16-XG is a fully managed, 16-port, 10G fiber switch that enhances network capacity by providing high-bandwidth aggregation connectivity to multiple switches in your network.

The US-16-XG offers an extensive suite of advanced Layer-2 switching features and protocols.

Switching Performance

The US-16-XG offers the forwarding capacity to simultaneously process traffic on all ports at line rate without any packet loss.

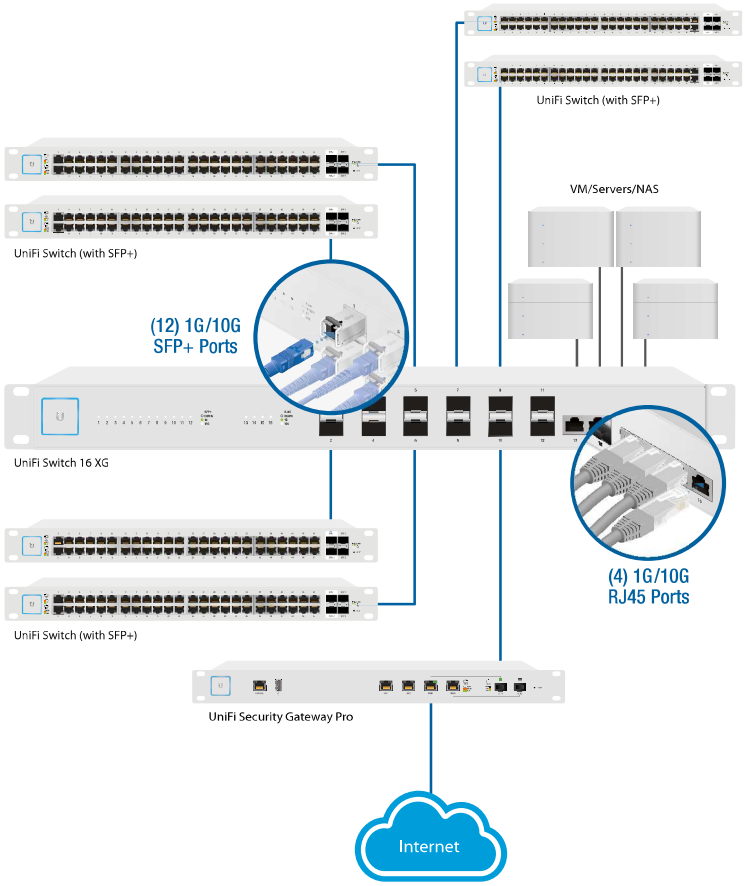
The total non-blocking throughput is up to 160 Gbps.

10G High-Capacity Links

The US-16-XG offers maximum performance and low latency as an aggregation switch.

For fiber connectivity, it features 12 SFP+ ports. For copper connectivity, the US-16-XG offers four RJ45 ports that support 10GBASE-T, the standard for 10 Gbps connections using Cat6 (or higher) cabling and RJ45 connectors.

Deployment Example



The US-16-XG connects to the following:

- *Multiple UniFi Switches and a 1G/10G router via SFP+ ports*
- *VM, Server, NAS, or other network devices via 1G/10G RJ45 ports*

UniFi Controller

Designed for convenient management, the UniFi Controller software allows admins to configure and monitor the UniFi Switch and other UniFi devices using a graphical user interface. You can download it from **www.ubnt.com** at no cost.

Multi-Site Management

A single instance of the UniFi Controller running in the cloud can manage multiple UniFi sites within a centralized interface. Each site is logically separated and has its own network monitoring, configuration, maps, statistics, and admin 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

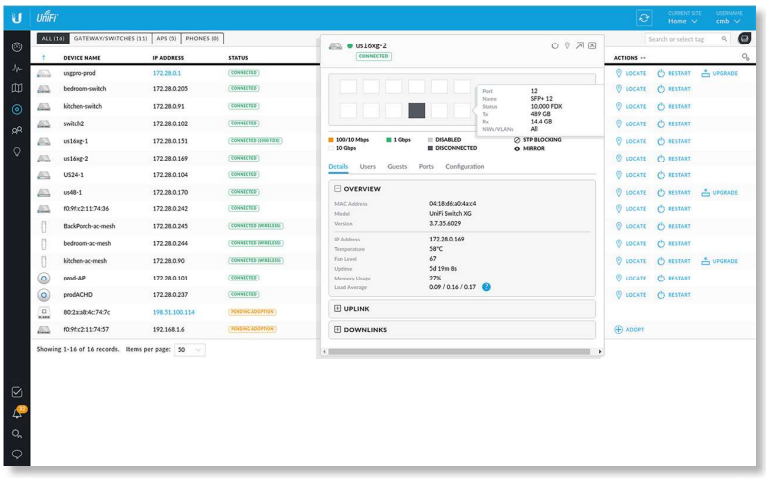
Switch Port Status

You can also view status information for each port:

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

Dashboard

The *Dashboard* tab provides a visual representation of your network's status. Basic information is provided for each network segment.



Device Configuration

The *Devices* screen displays the UniFi devices discovered by the UniFi Controller. You can access each managed device for device details and configuration.

UniFi | SWITCH 16 XG | DATASHEET

Models

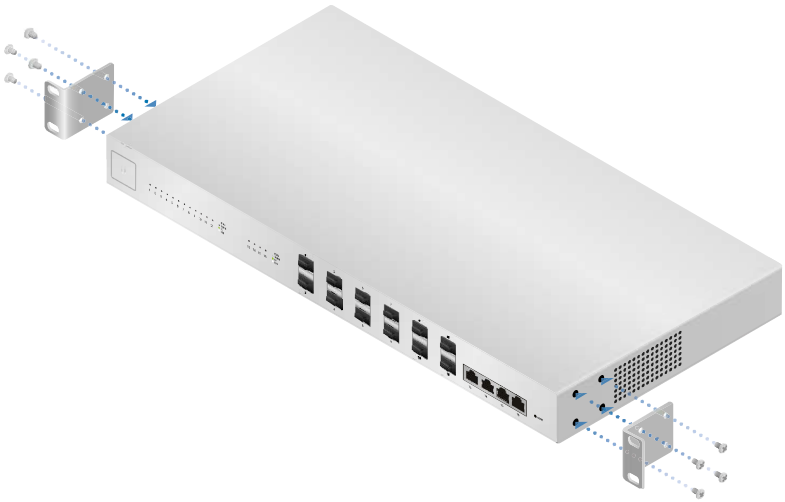
UniFi Switch 16 XG

Model: US-16-XG

- (12) 1G/10G SFP+ Ports
- (4) 1G/10G RJ45 Ports
- (1) RJ45 Serial Console Port
- Non-Blocking Throughput: 160 Gbps
- Switching Capacity: 320 Gbps
- Forwarding Rate: 238.10 Mpps
- Rack Mountable with Mount Brackets (Included)
- DC Input Option (Redundant or Stand-Alone)

Front Panel

Back Panel



Place on a desktop or attach the mounting brackets to install in a rack.

UniFi® | SWITCH 16 XG

Hardware Specifications

US-16-XG				
Dimensions	443 x 221 x 43 mm (17.44 x 8.70 x 1.69")			
Weight	Without Mount Brackets		With Mount Brackets	
	2.62 kg (5.78 lb)		2.71 kg (5.97 lb)	
Enclosure Characteristics	SGCC Steel			
Total Non-Blocking Throughput	160 Gbps			
Switching Capacity	320 Gbps			
Forwarding Rate	238.10 Mpps			
Max. DC Power Consumption	36W (Excludes SFP/SFP+ Modules)			
Power Method	AC		DC	
	100-240VAC/50-60 Hz, Universal Input		DC 56W, 57 to 20V, with 48/24VDC Terminal Block	
Supported Voltage Range	100 to 240VAC		57 to 20VDC	
Power Supply	AC/DC, Internal, 56W DC			
LEDs Per Data Port	Speed/Link/Activity			
Sound Level*	Fan Level 0	Fan Level 1	Fan Level 2	Fan Level 3
	1.0 dBr	10.7 dBr	12.2 dBr	12.8 dBr
Networking Interfaces	(12) 1/10 Gbps SFP+ Ethernet Ports (4) 1/10 Gbps RJ45 Ethernet Ports			
Management Interface	(1) RJ45 Serial Port Out-of-Band, Ethernet Ports In-Band			
Certifications	CE, FCC, IC			
Rack Mount	Yes, 1U High			
ESD/EMP Protection	Air: ± 24 kV, Contact: ± 24 kV			
Operating Temperature	-5 to 40° C (23 to 104° F)			
Operating Humidity	5 to 95% Noncondensing			
Shock and Vibration	ETSI300-019-1.4 Standard			

** Background noise level: 27.5 dBa*

Max. Number of Supported SFP+ Modules		
UF-MM-10G	UF-SM-10G	UF-RJ45-10G
12	12	4

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DATASHEET

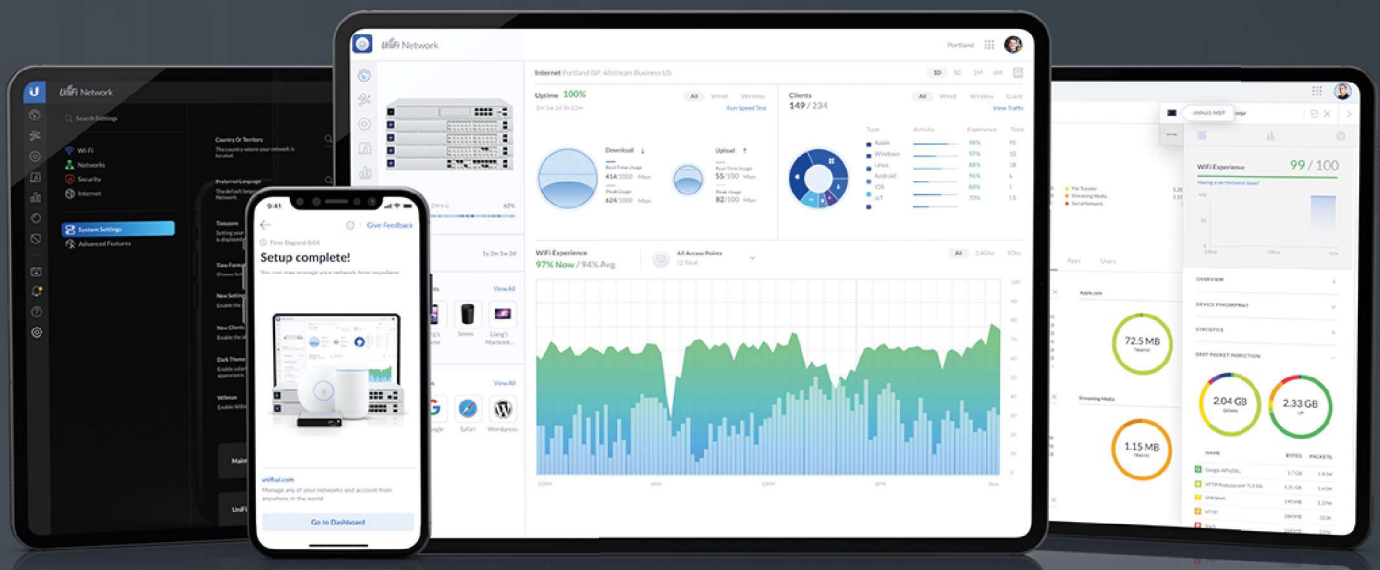
UniFi® | SWITCH 16 XG

JLNB061520

UniFi® Network EnterpriseXG 24

Datasheet
USW-EnterpriseXG-24

UniFi® Network



Switch Enterprise XG 24

Layer 3 switch with (24) 10GbE RJ45 ports and (2) 25G SFP28 ports.

The Switch Enterprise XG 24 (USW Enterprise XG 24) is a fully managed, mult-gigabit, Layer 3 switch with (24) 10GbE RJ45 ports and (2) 25G SFP28 ports. The USW Enterprise XG 24 also features a 1.3" LCM color touchscreen that concisely displays key system and connection insights.
Additionally, the USW Enterprise XG 24 offers enhanced power supply failure protection when connected to the SmartPower Redundant Power System (USP RPS sold separately). This switch can be monitored or configured from anywhere with the powerful, intuitive UniFi Network web application and mobile app.

Mechanical

Dimensions	442 x 44 x 285 mm (17.4 x 1.7 x 11.2")
Weight	Without mount: 4.47 kg (9.85 lb) With mount: 4.57 kg (11.02 lb)
Enclosure materials	SGCC steel
Mount material	SGCC steel

Hardware

Total non-blocking throughput	290 Gbps
Switching capacity	580 Gbps
Forwarding rate	431.52 Mpps
Max. power consumption	100 W
Power method	(1) Universal AC input: 100-240VAC, 2A max., 50/60 Hz (1) USP-RPS DC input: 11.5VDC, 8.7A
Power supply	AC/DC, internal, 100 W
Management interface	Ethernet in-band
Networking interfaces	(24) 10GbE RJ45 ports
SFP28 interfaces	(2) 25G SFP28* ports *The two SFP28 ports don't support mixed speed at 25Gbps mode. Once one of the SFP28 ports is configured at 25Gbps mode, the others will be limited at 25Gbps too. The SFP28 ports only support mixed speed when all ports are at 1Gbps or 10Gbps.
Services	SMB Layer 3 Gigabit Ethernet switch
ESD/EMP protection	Air: ± 16 kV, contact: ± 12 kV
Display	(1) 1.3" LCM color touchscreen Bootup animation: bootup in progress Firmware update icon: firmware updating Steady white: factory defaults, awaiting adoption Steady blue: device is adopted
Button	Factory reset
LEDs	White: link or activity
Operating temperature	-5 to 40° C (23 to 104° F)
Operating humidity	10 - 95% noncondensing
Certifcations	CE, FCC, IC

DATASHEET

UniFi® XG 6 PoE

10G 6-Port Switch with 802.3bt PoE++

Model: US-XG-6POE

Non-Blocking Throughput Switching

802.3bt PoE++ to Simplify Infrastructure

10G Ethernet RJ45 and SFP+ Ports

UBIQUITI® NETWORKS

DATASHEET

UniFi XG 6 PoE

UniFi XG 6 PoE

Overview

Build and expand your network with the Ubiquiti® UniFi® Switch XG 6POE, model US-XG-6POE. It is a fully managed, 6-port, 10G switch with 802.3bt PoE++.

For deployment versatility, four 10G RJ45 ports offer 802.3bt PoE++ for powering devices, and two SFP+ ports are designed for high-capacity fiber uplinks.

Switching Performance

The UniFi Switch XG 6POE offers the forwarding capacity to simultaneously process traffic on all ports at line rate without any packet loss.

The switch features a total non-blocking throughput of up to 60 Gbps.

802.3bt PoE++ Compatibility

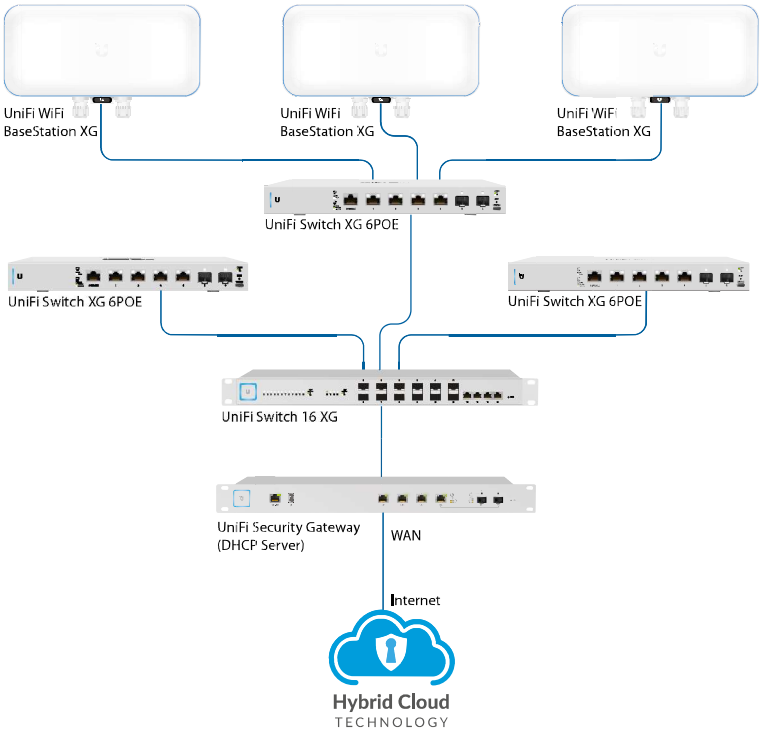
The UniFi Switch XG 6POE is compatible with devices requiring 802.3af or 802.3at, as well as the following UniFi Access Points (APs), which require 802.3bt power.

AP Model	802.3bt PoE++
UAP-AC-SHD	✓
UAP-XG	✓
UWB-XG	✓
UWB-XG-BK	✓

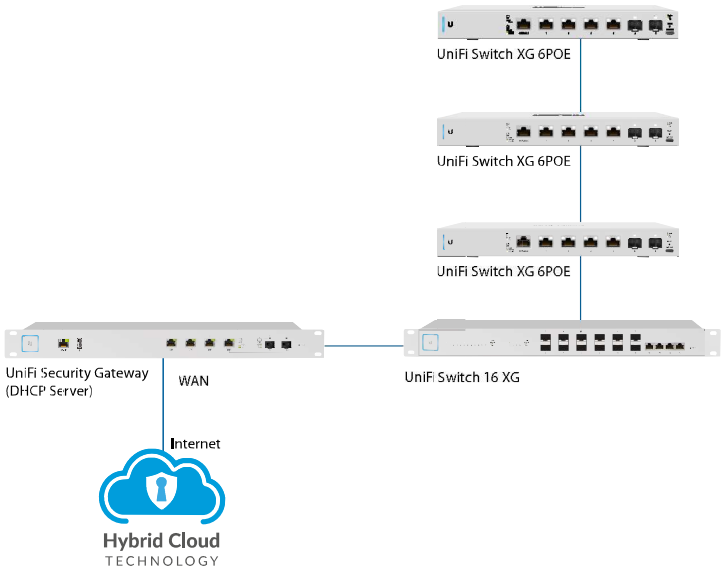
Power Redundancy

The UniFi Switch XG 6POE can be powered by a DC power source or the included power adapter. The optional DC input can be used as a stand-alone or redundant DC power source (not included).

Deployment Examples



Multiple switches connect via SFP+ to the UniFi Switch 16 XG. One UniFi Switch XG 6POE delivers data and 802.3bt PoE++ to multiple APs, the UniFi BaseStation XG, model UWB-XG.



Multiple switches are daisy-chained through their SFP+ interfaces.

UniFi Controller

Designed for convenient management, the UniFi Controller software allows admins to configure and monitor the UniFi Switch and other UniFi devices using a graphical user interface. You can download it from **www.ubnt.com** at no extra charge – there is no separate software, licensing, or support fee.

Multi-Site Management

A single instance of the UniFi Controller running in the cloud can manage multiple UniFi sites within a centralized interface. Each site is logically separated and has its own network monitoring, configuration, maps, statistics, and admin 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

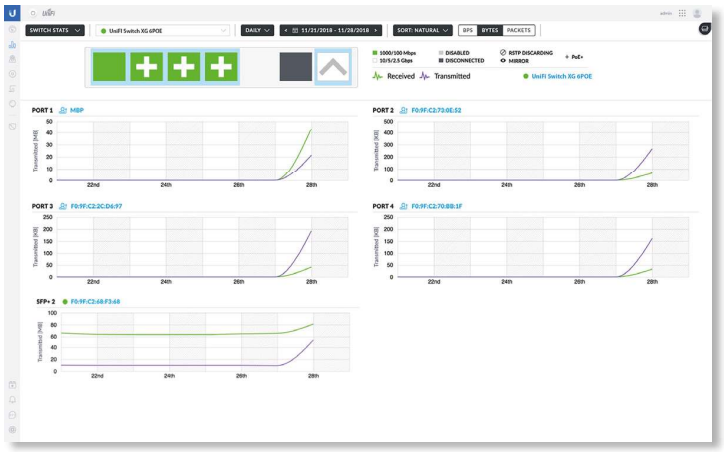
Switch Port Status

You can also view status information for each port:

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

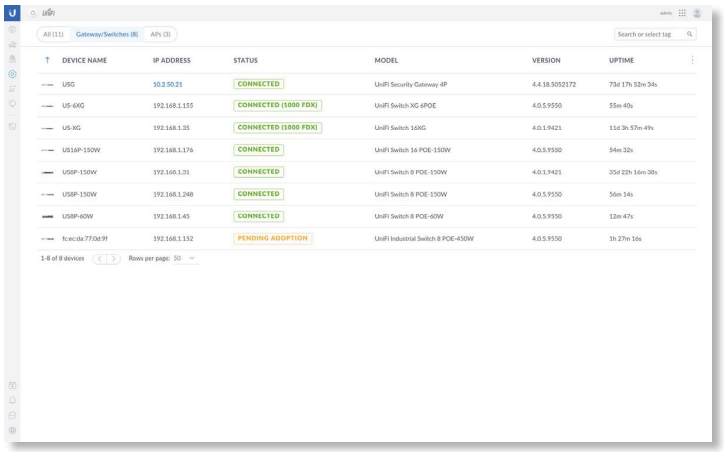
Dashboard

The *Dashboard* screen provides a visual representation of your network's status. Basic information is provided for your wired and wireless network segments.



Statistics

The *Switch Statistics* screen displays a graphical overview of all LAN throughput for each active port on the selected switch.



Device Configuration

The *Devices* screen displays the UniFi devices discovered by the UniFi Controller. You can access each managed device for device details and configuration.

DATASHEET

UniFi XG 6PoE

DATASHEET

UniFi XG 6 PoE

UniFi XG 6 PoE

Model: US-XG-6POE

- (4) 100/1000 Mbps and 2.5/5/10G RJ45 Ports
- (2) 1/10 SFP+ Ports
- (4) 802.bt PoE++ Ports
- Non-Blocking Throughput: 60 Gbps
- Switching Capacity: 120 Gbps
- Forwarding Rate: 89.3 Mpps
- Maximum Power Consumption*: 40W
- External 210W AC/DC Adapter (Included)
- DC Input Option (Redundant or Stand-Alone)

* *Excluding PoE Output*

Hardware Overview

802.3bt PoE++

The UniFi Switch XG 6POE offers 802.3bt PoE++ on all four RJ45 ports – up to 60W per port – for devices requiring additional power, such as the UniFi XG APs.

Power Options

The UniFi Switch XG 6POE includes a power adapter and features a DC input with terminal block so you have the option to use a DC power source (not included).

Mounting Versatility

The UniFi Switch XG 6POE can be mounted on a desktop or in a rack (rackmount accessory sold separately).

Specifications

US-XG-6POE	
Dimensions	165 x 268.1 x 31.8 mm (6.50 x 10.56 x 1.25")
Weight	1.3 kg (2.87 lb)
Interfaces Networking Management	 (4) 100/1000 Mbps and 2.5/5/10G RJ45 Ports (2) 1/10G SFP+ Ethernet Ports Ethernet In-Band (1) RJ45 Serial Port Out-of-Band (1) USB Type C Port Out-of-Band
Power Method	54VDC, 3.88A Power Adapter (Included) or DC Input with Terminal Block
Power Supply	External AC/DC Adapter (Included) or DC Power Source
Supported Voltage Range	44 to 57VDC
Max. Power Consumption (Excluding PoE Output)	40W
LEDs System RJ45 Data Ports SFP+ Data Ports	 Status PoE; Speed/Link/Activity Link/Activity
ESD/EMP Protection	Air: ± 18 kV, Contact: ± 12 kV
Shock and Vibration	ETSI300-019-1.4 Standard
Operating Temperature	-5 to 45° C (23 to 113° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC

PoE	
PoE Interfaces	PoE++ IEEE 802.3bt (Pair A 1, 2+; 3, 6-) (Pair B 4 , 5+; 7, 8-)
Max. 802.3bt Wattage per Port by PSE	60W
Voltage Range 802.3af Mode	44-57V
Voltage Range 802.3at/bt Mode	50-57V

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DATASHEET

UniFi XG 6 PoE

JL121418

UniFi Network Enterprise 24 PoE

Datasheet
USW-Enterprise-24-PoE

Switch Enterprise 24 PoE

Mechanical

Dimensions	442.4 x 43.7 x 325 mm (17.4 x 1.7 x 12.8")
Weight	Without mount: 5.11 kg (11.27 lb) With mount: 5.2 kg (11.46 lb)
Enclosure material	SGCC steel
Mount material	SGCC steel

Hardware

Total non-blocking throughput	62 Gbps
Switching capacity	124 Gbps
Forwarding rate	92.25 Mpps
Max. power consumption	550W
Power method	(1) Universal AC input: 100—240V AC, 8.5A Max., 50/60 Hz (1) USP-RPS DC input: 52V DC, 7.7A; 11.5V DC, 8.7A
Power supply	AC/DC, internal, 550W
Management interface	Ethernet In-Band
Networking interface	(12) 10/100/1000 MbE RJ45 (12) 100/1000/2500 MbE RJ45
SFP+ interface	(2) 1/10G SFP+
PoE interface	(24) PoE/PoE+ (Pins 1, 2+; 3, 6-)
Max. PoE+ wattage per port by PSE	34.2W
PoE budget	400W
Voltage range PoE mode	44—57V
Voltage range PoE+ mode	50—57V
Services	SMB layer 3 PoE GbE switch
ESD/EMP protection	Air: ± 16 kV, contact: ± 12 kV
Operating temperature	-5 to 40° C (23 to 104° F)
Operating humidity	10 to 95% noncondensing
Certifcations	CE, FCC, IC

LEDs

System	(1) Bootup animation: bootup in progress Firmware upgrade icon: firmware upgrading Steady white: factory defaults, awaiting adoption Steady blue: device is adopted
Ethernet	White: link or activity
SFP+	White: link or activity

UniFi Network USW PoE

DATASHEET

802.3at PoE Gigabit Switches with SFP

Auto-Sensing IEEE 802.3af/at PoE

SFP Ports for Gigabit Fiber Connectivity

Quiet Cooling for Any Workspace

Models: USW-16-PoE, USW-24-PoE, USW-48-PoE

Overview

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

- **USW-16-PoE** 16 RJ45 ports with 2 SFP ports
- **USW-24-PoE** 24 RJ45 ports with 2 SFP ports
- **USW-48-PoE** 48 RJ45 ports with 4 SFP ports

The 16-port and 24-port models measure only 7.9" in depth, making them ideal for convenient installation: rackmounted in a SOHO rack cabinet or 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

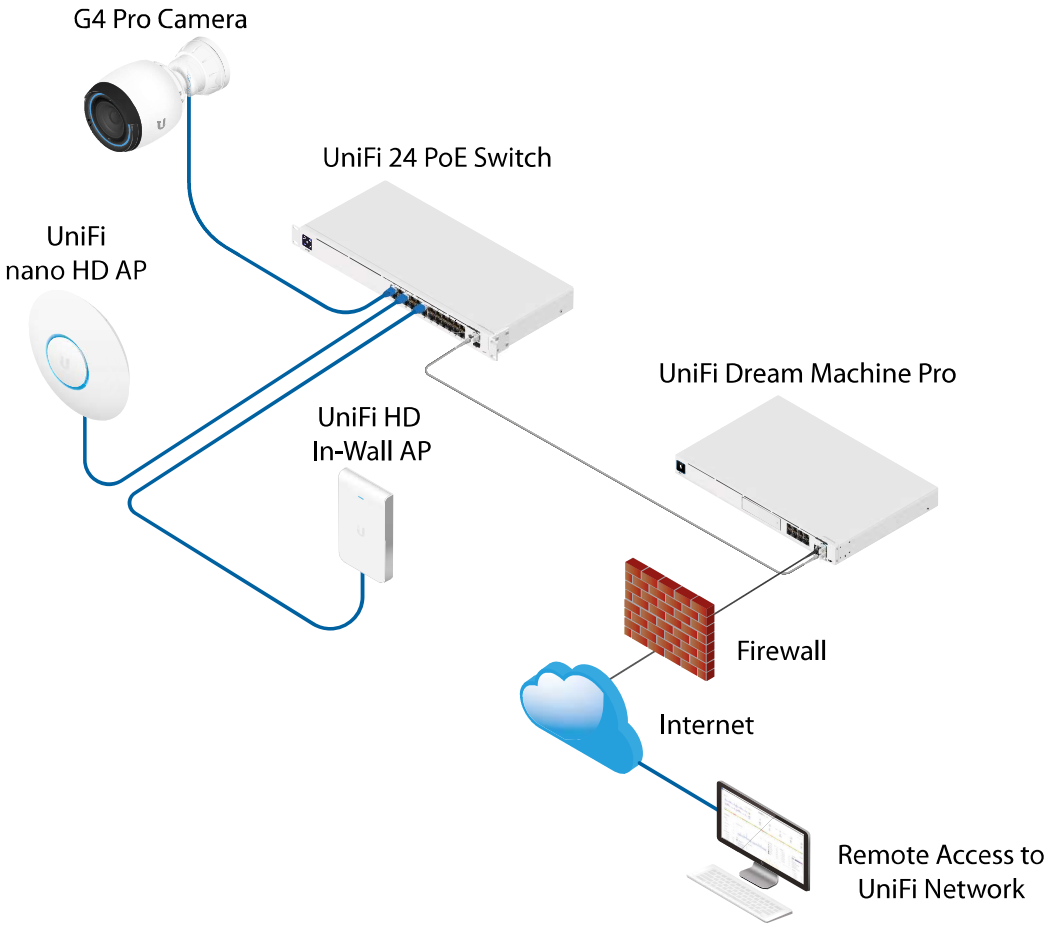
The UniFi PoE Switch offers the forwarding capacity to simultaneously process traffic on all ports at line rate without any packet loss.

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	USW-48-PoE
Number of PoE Ports	8	16	32
Total Available PoE	42W	95W	195W
Max. PoE Wattage per Port	32W	32W	32W

Deployment Example



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

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

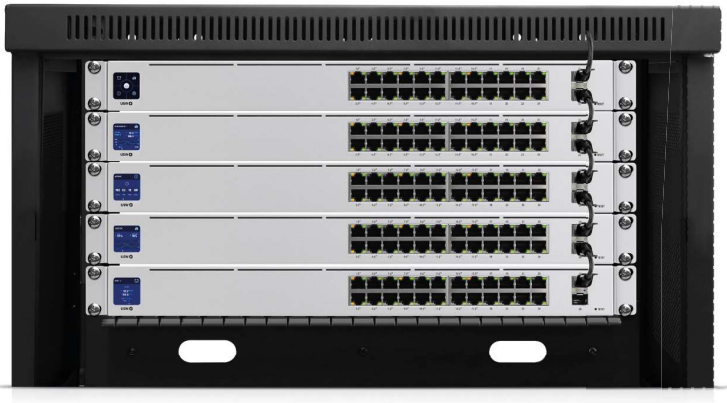
UniFi 48-Port PoE Switch

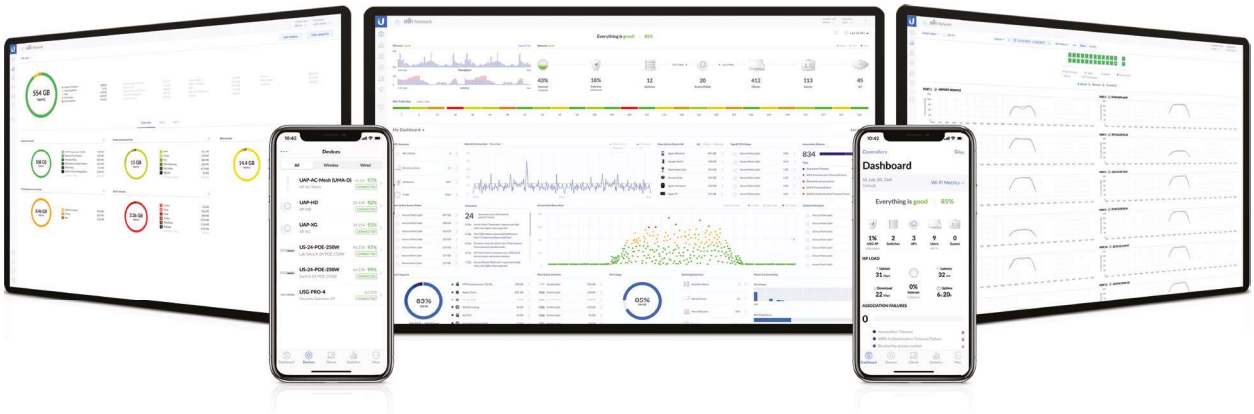
- (32) Gigabit RJ45 ports with 802.3af/at
- (16) Gigabit RJ45 ports
- (4) 1G SFP ports
- 1U Rackmountable (hardware included)

USW-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.

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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.

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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

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USW-16-PoE	
Dimensions	442.4 x 200 x 43.7 mm (17.42 x 7.87 x 1.72")
Weight With Brackets	2.80 kg (6.17 lb) 2.89 kg (6.37 lb)
Interfaces Networking Management	 (16) 10/100/1000 RJ45 Ports (2) 1G SFP Ethernet Ports 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 (Excluding PoE Output)	18W
LEDs RJ45 Data Ports SFP Data Ports	 PoE; Speed/Link/Activity 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	42W
PoE Interfaces Ports 1-8	 POE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-)
Max. PoE Wattage per Port by PSE 802.3at	 32W
Voltage Range 802.3af Mode 802.3at Mode	 44-57V 50-57V

USW-24-PoE	
Dimensions	442.4 x 200 x 43.7 mm (17.42 x 7.87 x 1.72")
Weight With Brackets	3.00 kg (6.61 lb) 3.09 kg (6.81 lb)
Interfaces Networking Management	 (24) 10/100/1000 RJ45 Ports (2) 1G SFP Ethernet Ports 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 RJ45 Data Ports SFP Data Ports	 PoE; Speed/Link/Activity 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	95W
PoE Interfaces Ports 1-16	 PoE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-)
Max. PoE Wattage per Port by PSE 802.3at	 32W
Voltage Range 802.3af Mode 802.3at Mode	 44-57V 50-57V

USW-48-PoE	
Dimensions	442.4 x 285 x 43.7 mm (17.42 x 11.22 x 1.72")
Weight With Brackets	4.52 kg (9.97 lb) 4.61 kg (10.16 lb)
Interfaces Networking Management	 (48) 10/100/1000 RJ45 Ports (4) 1G SFP Ethernet Ports Ethernet In-Band
Total Non-Blocking Throughput	52 Gbps
Switching Capacity	104 Gbps
Forwarding Rate	77.38 Mpps
Power Method	100-240VAC, 50/60 Hz, Universal Input
Power Supply	AC/DC, Internal, 240W
Voltage Range	100 to 240VAC
Max Power Consumption (Excluding PoE Output)	45W
LEDs RJ45 Data Ports SFP Data Ports	 PoE; Speed/Link/Activity 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	195W
PoE Interfaces Ports 1-32	 PoE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-)
Max. PoE Wattage per Port by PSE 802.3at	 32W
Voltage Range 802.3af Mode 802.3at Mode	 44-57V 50-57V

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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++

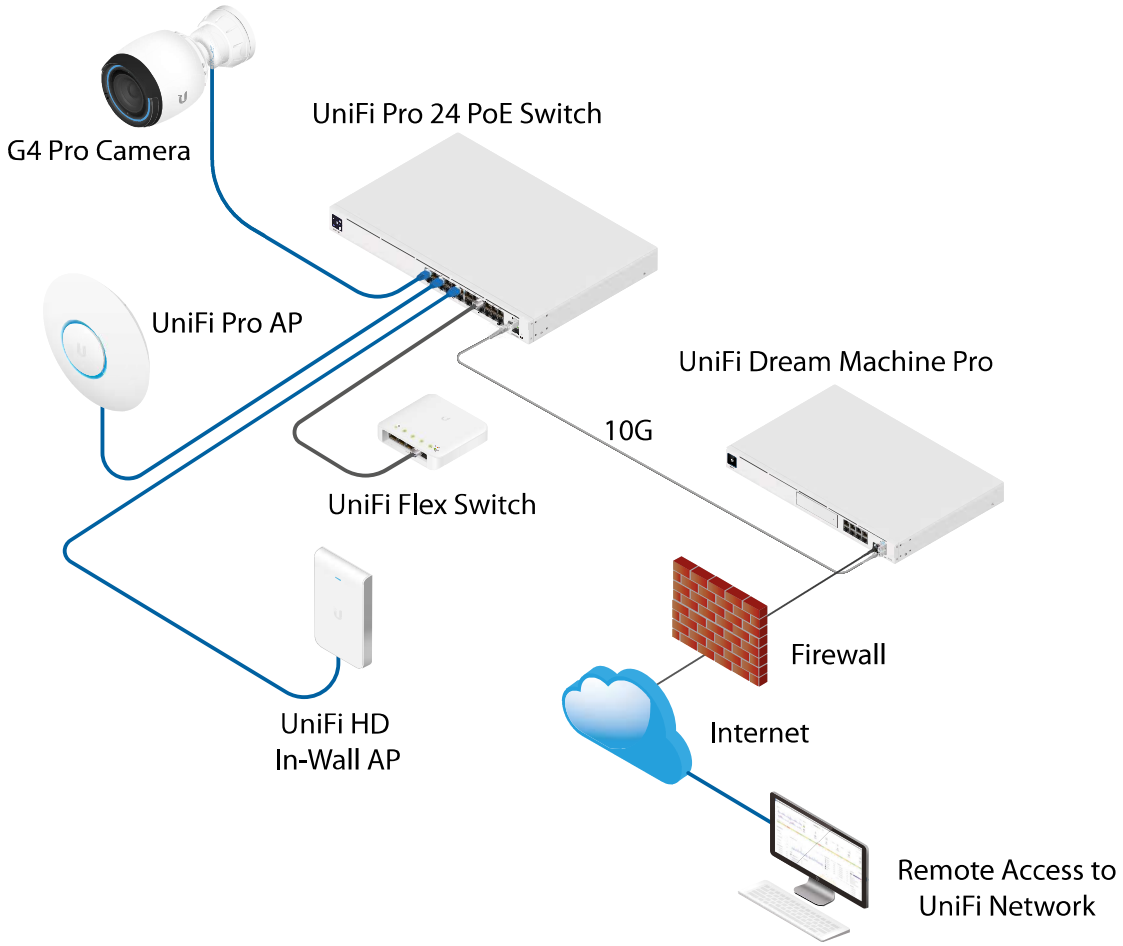
PoE support simplifies your network infrastructure and cabling. Eight ports offer 802.3bt PoE++ to provide up to 64W of power (per port) to your high-power PoE devices. Remaining ports offer 802.3af/at PoE.

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

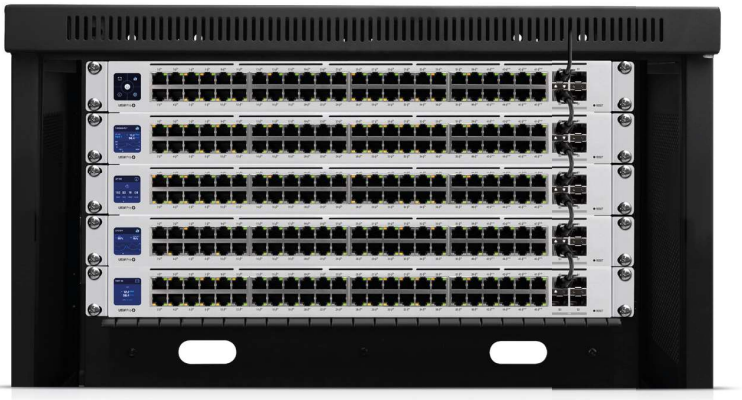
UniFi Pro 48-Port PoE Switch

- (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

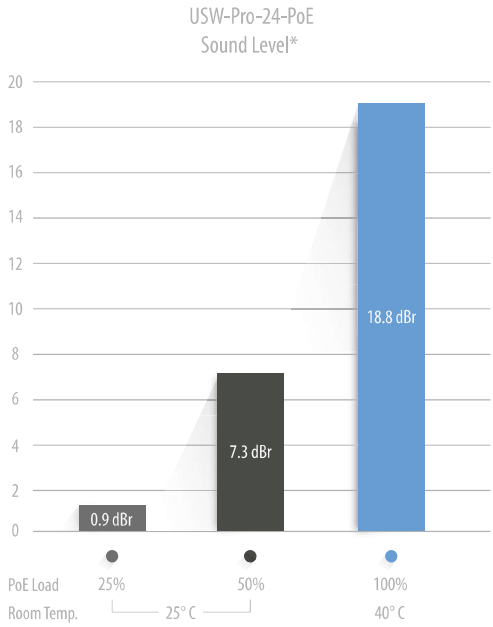
Innovative Display

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



USW-Pro-24-PoE	
Dimensions	442.4 x 285.4 x 43.7 mm (17.42 x 11.24 x 1.72")
Weight With Brackets	4.30 kg (9.48 lb) 4.39 kg (9.68 lb)
Interfaces Networking Management	 (24) 10/100/1000 RJ45 Ports (2) 1/10G SFP+ Ethernet Ports Ethernet In-Band
Total Non-Blocking Throughput	44 Gbps
Switching Capacity	88 Gbps
Forwarding Rate	65.472 Mpps
Power Method Universal Input USP RPS DC Input	 100-240VAC, 50/60 Hz 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 System RJ45 Data Ports SFP+ Data Ports	 Status PoE; Speed/Link/Activity 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

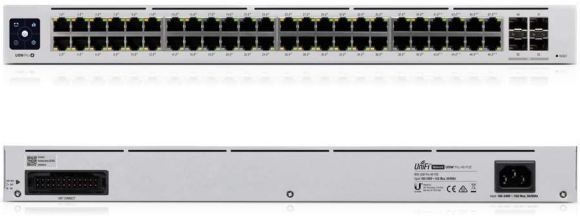
PoE	
Total Available PoE	400W
PoE Interfaces Ports 1-16 Ports 17-24 802.3af/at 802.3bt	 PoE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-) 60W PoE++ IEEE 802.3af/at/bt (Pins 1, 2+; 3, 6-) (Pair A 1, 2+; 3, 6-) (Pair B 4 , 5+; 7, 8-)
Max. PoE Wattage per Port by PSE 802.3at 802.3bt	 32W 64W
Voltage Range 802.3af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

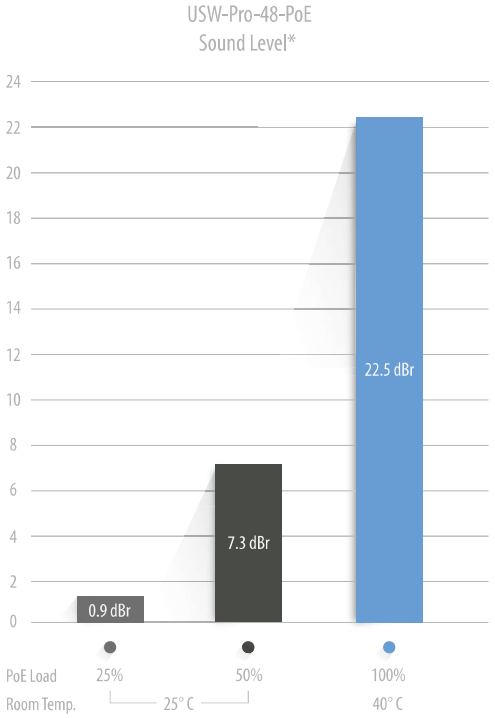


* Background noise level: 27.5 dBa

USW-Pro-48-PoE	
Dimensions	442.4 x 399.6 x 43.7 mm (17.42 x 15.73 x 1.72")
Weight With Brackets	6.25 kg (13.78 lb) 6.34 kg (13.98 lb)
Interfaces Networking Management	 (48) 10/100/1000 RJ45 Ports (4) 1/10G SFP+ Ethernet Ports Ethernet In-Band
Total Non-Blocking Throughput	88 Gbps
Switching Capacity	176 Gbps
Forwarding Rate	130.944 Mpps
Power Method Universal Input USP RPS DC Input	 100-240VAC, 50/60 Hz 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 System RJ45 Data Ports SFP+ Data Ports	 Status PoE; Speed/Link/Activity 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 Ports 1-40 Ports 41-48 802.3af/at 802.3bt	 PoE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-) 60W PoE++ IEEE 802.3af/at/bt (Pins 1, 2+; 3, 6-) (Pair A 1, 2+; 3, 6-) (Pair B 4 , 5+; 7, 8-)
Max. PoE Wattage per Port by PSE 802.3at 802.3bt	 32W 64W
Voltage Range 802.3af Mode 802.3at/bt Mode	 44-57V 50-57V





* *Background noise level: 27.5 dBa*

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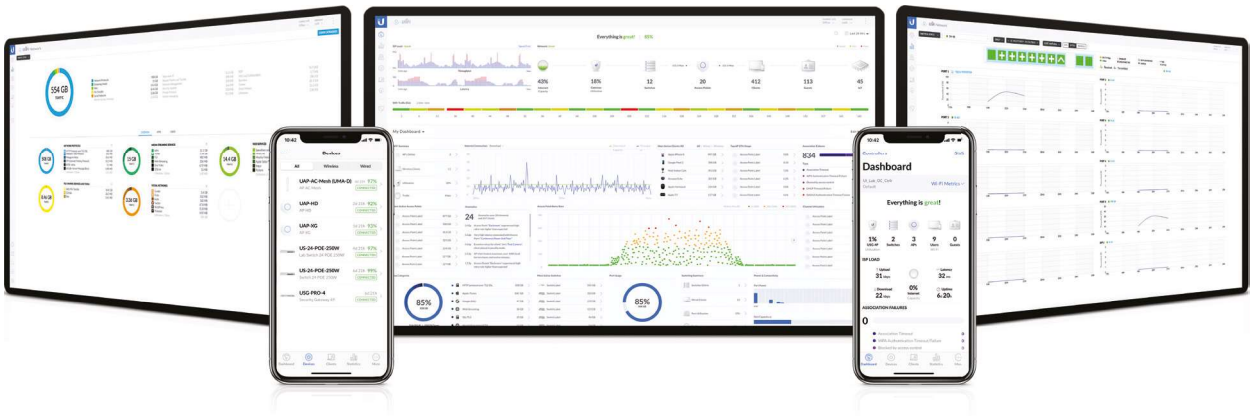

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