

Non-Blocking Throughput Switching Performance

Gigabit Ethernet RJ45 Ports

Robust Performance for Enterprise Networks





## **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.

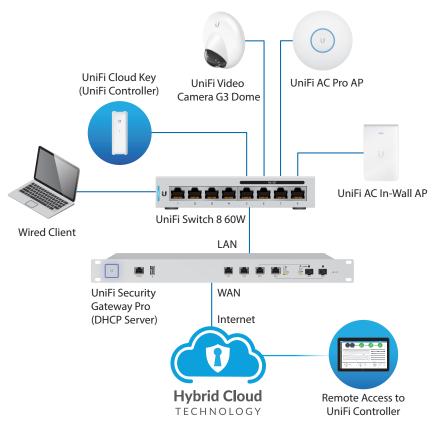
For its total, non-blocking throughput, each UniFi Switch supports up to 8 Gbps with a switching capacity of 16 Gbps.

#### **PoE**

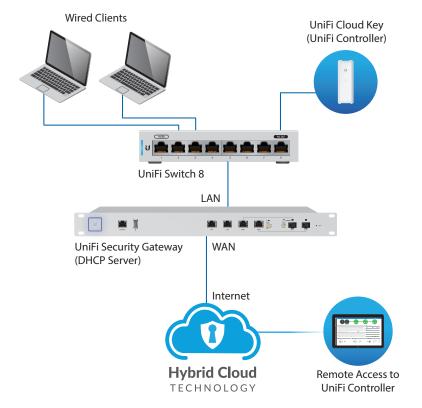
The US-8 can be powered by 802.3af/at PoE, 48V passive PoE, or the included power adapter\*. 48V passive PoE passthrough is supported on port 8.

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

## **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**

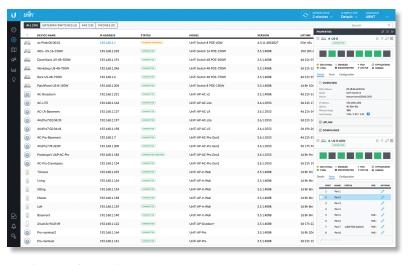
You can access any managed UniFi Switch through the UniFi Controller to configure a variety of features:

- 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).

,																RENTSITE USERNAME Bult V ckadmin V
9	SWITCH STATS V OVERVIEW POE COUNTERS Select or search for a device				Q UNK STATUS: ALL V						CLEAR COUNTERS V Search 9.					
,	PORT 1	SWITCH	NAME	POE	MODE	NETWORK/VLANS	LINK STATUS	STP	TX	RX	TX RATE	RX RATE	ACTIVITY	ACTIONS		9,
	1	US8-60W-Lab	Port 1		Switzhing	All	1,000 FOK	Forwarding	4.39 GB	247 MB	4.38 MB/s	124 KB/s	•	Ø EDIT	<ul> <li>CLEAR COUNTERS</li> </ul>	
0	1	44:d9:e7:f1c18e	Port 1	Po€*	Switzhing	All	1,000 FOX (Uplink)	Forwarding	8.43 KB	8.12 KB	4.36 KB/S	1.62 KB/s	-	Ø sorr	<ul> <li>CLEAR COUNTERS</li> </ul>	
9	1	US-8	Port 1		Switzhing	All	1,000 FOK	Forwarding	784 KB	1.14 MB	295 II/s	208 8/4	•	O EDIT	<ul> <li>CLEAR COUNTERS</li> </ul>	
2	1	US-24-250W	Port 1	Po€*	Switzhing	All			0.8	0.8	0.8/5	0.8/5		Ø sorr	<ul> <li>CLEAR COUNTERS</li> </ul>	
	2	US-24-250W	Port 2	4.21W	Switzhing	All	1,000 FDK	Forwarding	1.76 GB	155 MB	4.07 MB/s	97.8 KB/s	•	O EDIT	<ul> <li>CLEAR COUNTERS</li> </ul>	C+ POWER CYCLE
	2	US8-60W-Lab	Port 2		Switzhing	All	1,000 FOX	Forwarding	11.6 MB	748 KB	38.5 KB/S	1.96 KB/s	-	Ø sorr	<ul> <li>CLEAR COUNTERS</li> </ul>	
	<b>■</b> 2	44:d9xe7:thctille	Port 2	PoE+	Switzhing	All			0.8	0.0	0.8/4	0.8/4		O EDIT	CLEAR COUNTERS	
١	2	US-8	Port 2		Switzhing	All	1,000 FOX (Uplink)	Forwarding	786 KB	11.7 MB	929 8/s	1.92 KB/s	-	Ø sorr	<ul> <li>CLEAR COUNTERS</li> </ul>	
1	<b>■</b> 2	USB-60W-Lab	Port 3		Switzhing	All			956 KB	297 KB	0 B/s	0.8/4		O EDIT	O CLEAR COUNTERS	
	■ 3	US-24-250W	Port 3	Po€=	Switzhing	All			0.8	0.8	0.85	0.8/5		Ø EDIT	O CLEAR COUNTERS	
	<b>■</b> 2	44:d9x2:flctile	Port 3	PoE+	Switzhing	All			0.8	0.0	0 B/s	0.8/4		O EDIT	O CLEAR COUNTERS	
	3	US-8	Port 3		Switzhing	All			0.8	0.8	0.85	0.8/9		Ø EDIT	O CLEAR COUNTERS	
	■ 4	US8-60W-Lab	Port 4		Switzhing	All	1,000 FOX (Uplink)	Forwarding	264 MB	4.64 GB	125 KB/s	4.41 MB/s	•	Ø EDIT	O CLEAR COUNTERS	
	4	44:d9x2:fict8e	Port 4	Po€*	Switzhing	All			0.8	0.8	0.8/s	0.8/9		Ø EDIT	<ul> <li>CLEAR COUNTERS</li> </ul>	
	<b>■</b> 4	US-8	Port 4		Switzhing	All			0.8	0.8	0.8/s	0.8/s		Ø EDIT	O CLEAR COUNTERS	
	4	US-24-250W	Port 4	Po€*	Switzhing	All			0.8	0.8	0.8/s	0.8/s		Ø EDIT	<ul> <li>CLEAR COUNTERS</li> </ul>	
	<b>■</b> 5	US-8	Port 5		Switzhing	All			0.8	0.8	0.8/s	0.8/5		Ø EDIT	O CLEAR COUNTERS	
	■ 3	US8-60W-Lab	Port 5	PoE	Switzhing	All			2.22 MB	1.01 MB	0.8/s	0.8/s		Ø EDIT	<ul> <li>CLEAR COUNTERS</li> </ul>	
	<b>II</b> 4	US-24-250W	Port 5	PoE+	Switzhing	All			0.8	0.8	0.8/s	0.8/5		Ø EDIT	O CLEAR COUNTERS	
	<b>II</b> :	44:d9x7:frct@e	Port 5	Po€*	Switzhing	All			0.8	0.8	0.8/s	0.0/s		Ø EDIT	<ul> <li>CLEAR COUNTERS</li> </ul>	
	E2 6	US8-60W-Lab	Port 6	5.00W	Switzhing	All	1,000 FOX	Forwarding	160 MB	92.1 MB	234 8/s	64 B/s	-	Ø EDIT	O CLEAR COUNTERS	O POWER CYCLE
	<b>■</b> 6	44:d9x7:frct@e	Port 6	Po€+	Switzhing	All			0.8	0.0	0.0%	0.0/4		O EDIT	<ul> <li>CLEAR COUNTERS</li> </ul>	
1	<b>■</b> 4	US-24-250W	Port 6	Po€*	Switzhing	All			0.8	0.8	0.8/5	0.8/5		Ø EDIT	O CLEAR COUNTERS	
1	<b>II</b> 6	US-8	Port 6		Switzhing	All			0.8	0.0	0.0%	0.8/4		O EDIT	CLEAR COUNTERS	
1	<b>■</b> 7	44x89x27fx18e	Port 7	Po€*	Switzhing	All			0.8	0.8	0.8/5	0.8/5		Ø EDIT	O CLEAR COUNTERS	
1	<b>III</b> 7	USB-60W-Lab	Port 7	PoE	Switzhing	All			1.23 MB	405 KB	0.0/4	0.8/4		O EDIT	CLEAR COUNTERS	
1	<b>■</b> 7	US-8	Port 7		Switzhing	All			0.8	0.8	0.8/5	0.8/5		Ø EDIT	<ul> <li>CLEAR COUNTERS</li> </ul>	
,	<b>III</b> 7	US-24-250W	Port 7	Po€+	Switzhing	All			0.0	0.0	0.8/4	0.8/4		O EDIT	CLEAR COUNTERS	
1	E 8	US-8	Port 8		Switzhing	All	1,000 FOX	Forwarding	12.6 MB	1.03 MB	1.86 KB/S	685 8/5		Ø EDIT	<ul> <li>CLEAR COUNTERS</li> </ul>	O POWER CYCLE
ı	<b>II</b> •	US-24-250W	Port 8	Po€+	Switzhing	All			0.8	0.0	0.8/s	0.8/4		Ø EDIT	O CLEAR COUNTERS	
	<b>22</b> 8	US8-60W-Lab	Port 8	2.73W	Switzhing	All	1,000 FOX	Forwarding	343 MB	123 MB	2 88/5	3.77 KB/s		Ø EDIT	<ul> <li>CLEAR COUNTERS</li> </ul>	O POWER CYCLE
7	<b>E</b> •	44:d9xe7:thctille	Port 8	PoE+	Switzhing	All			0.8	0.0	0.8/s	0.8/4		Ø EDIT	O CLEAR COUNTERS	

#### Insights

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

## **Models**



## 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)







## 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 St					
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 <sup>1</sup> : 100-240VAC, 50/60 Hz; 48VDC, 0.5A					
LEDs	PoE (Port 8), Speed/Link/Activity (All Ports)					
Sound Level <sup>2</sup>	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					

<sup>1</sup> Included only in single-packs of the US-8. <sup>2</sup> Background noise level: 27.5 dBa



# **Specifications**

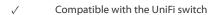
	US-8-60W
Dimensions	148.0 x 99.5 x 30.7 mm (5.83 x 3.92 x 1.21")
Weight	432 g (15.24 oz)
Enclosure Characteristics	SGCC Steel
Total Non-Blocking Throughput	8 Gbps
Switching Capacity	16 Gbps
Forwarding Rate	11.9 Mpps
Max. Power Consumption	12W (Excluding PoE Output)
Max. PoE Wattage per Port	15.4W
Power 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

<sup>\*</sup> Background noise level: 27.5 dBa



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			<b>√</b>	✓	$\checkmark$	$\checkmark$	$\checkmark$	✓
UVC-G3-AF	$\checkmark$	✓	<b>√</b>	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
UVC-G3-DOME	$\checkmark$	<b>√</b>	<b>√</b>	✓	$\checkmark$	<b>√</b>	$\checkmark$	✓
UAP		0	<b>√</b>	✓	<b>√</b>	$\checkmark$	$\checkmark$	$\checkmark$
UAP-LR		0	<b>√</b>	✓	$\checkmark$	$\checkmark$	$\checkmark$	✓
UAP-PRO	$\checkmark$	✓	<b>√</b>	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
UAP-AC-LITE <sup>1</sup>	$\checkmark$	✓	<b>√</b>	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
UAP-AC-LR <sup>1</sup>	$\checkmark$	<b>√</b>	<b>√</b>	✓	<b>√</b>	<b>√</b>	$\checkmark$	<b>√</b>
UAP-AC-PRO	$\checkmark$	<b>√</b>	<b>√</b>	✓	<b>√</b>	$\checkmark$	<b>√</b>	<b>√</b>
UAP-AC-M	$\checkmark$	<b>√</b>	<b>√</b>	✓	<b>√</b>	<b>√</b>	$\checkmark$	$\checkmark$
UAP-AC-M-PRO	$\checkmark$	<b>√</b>	<b>√</b>	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
UAP-AC-IW <sup>2</sup>	$\checkmark$	✓	<b>√</b>	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
UAP-AC-IW-PRO <sup>2</sup>	$\checkmark$	<b>√</b>	<b>√</b>	✓	$\checkmark$	$\checkmark$	$\checkmark$	✓
UAP-AC-HD	-	_	<b>√</b>	<b>√</b>	<b>√</b>	$\checkmark$	$\checkmark$	$\checkmark$





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





- 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

Specifications are subject to change. Ubiquiti products are sold with a limited warranty described at: www.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



