# Datasheet







Managed PoE+ Gigabit Switches with SFP

Models: 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





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 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 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:

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

#### **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



#### Dashboard

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

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#### Statistics

The *Statistics* tab provides a visual representation of the network clients and network traffic carried by your managed UniFi Switches and APs.



# Models

## UniFi Switch 24 (250W Model)

Model: US-24-250W

- (24) Gigabit RJ45 ports
- (2) SFP ports
- (1) Serial console port (reserved for future use)
- 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
- Rackmountable



Back Panel

## UniFi Switch 24 (500W Model)

Model: US-24-500W

- (24) Gigabit RJ45 ports
- (2) SFP ports
- (1) Serial console port (reserved for future use)
- 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
- Rackmountable



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Back Panel

### UniFi Switch 48 (500W Model)

Model: US-48-500W

- (48) Gigabit RJ45 ports
- (2) SFP+ ports
- (2) SFP ports
- (1) Serial console port (reserved for future use)
- 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
- Rackmountable



Front Panel



Back Panel

#### UniFi Switch 48 (750W Model)

Model: US-48-750W

- (48) Gigabit RJ45 ports
- (2) SFP+ ports
- (2) SFP ports
- (1) Serial console port (reserved for future use)
- 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
- Rackmountable



Front Panel



Back Panel

Datasheet

i<sup>®</sup> Switch

# Hardware Specifications

	US-24-250W, US-24-500W
Dimensions	485.04 x 44.45 x 285.6 mm (19.1 x 1.75 x 11.24")
Weight	3.7 kg (8.16 lb)
Total Non-Blocking Throughput	26 Gbps
Switching Capacity	52 Gbps
Forwarding Rate	38.69 Mpps
Max. Power Consumption US-24-250W US-24-500W	250W 500W
Power Method	100-240VAC/50-60 Hz, Universal Input
Power Supply US-24-250W US-24-500W	AC/DC, Internal, 250W DC AC/DC, Internal, 500W DC
LEDs Per Port Serial Console Port RJ45 Data Ports SFP Data Ports	N/A PoE, Speed/Link/Activity Speed/Link/Activity
Networking Interfaces	(24) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports
Management Interface	(1) RJ45 Serial Port (Reserved for Future Use), Ethernet In/Out Band
Certifications	CE, FCC, IC
Rackmount	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

	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

## **Hardware Specifications**

	US-48-500W, US-48-750W
Dimensions	485.04 x 44.45 x 347.6 mm (19.1 x 1.75 x 13.69")
Weight	5.3 kg (11.68 lb)
Total Non-Blocking Throughput	70 Gbps
Switching Capacity	140 Gbps
Forwarding Rate	104.16 Mpps
Max. Power Consumption US-48-500W US-48-750W	500W 750W
Power Method	100-240VAC/50-60 Hz, Universal Input
Power Supply US-48-500W US-48-750W	AC/DC, Internal, 500W DC AC/DC, Internal, 750W DC
LEDs Per Port Serial Console Port RJ45 Data Ports SFP+/SFP Data Ports	N/A PoE, Speed/Link/Activity Speed/Link/Activity
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 (Reserved for Future Use), Ethernet In/Out Band
Certifications	CE, FCC, IC
Rackmount	Yes, 1U High
ESD/EMP Protection	Air: ±24 kV, Contact: ±24 kV
Operating Temperature	-5 to 40° C (23 to 104° F)
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Voltage Range 802.3at Mode	50–57V		
Max. Passive PoE Wattage per Port	17W		
24V Passive PoE Voltage Range	20-27V		



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