



EdgeSwitch™

Managed PoE+ Gigabit Switches with SFP

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

Non-Blocking Throughput Switching Performance

Gigabit Ethernet RJ45 and SFP+/SFP Ports

Auto-Sensing IEEE 802.3af/at PoE



Advanced Switching Technology for the Masses

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

The EdgeSwitch offers an extensive suite of advanced Layer-2 switching features and protocols, and also provides Layer-3 routing capability.

Switching Performance

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

The EdgeSwitch provides total, non-blocking throughput:

- **8-Port Model** Up to 10 Gbps
- **16-Port Model** Up to 18 Gbps
- **24-Port Models** Up to 26 Gbps
- **48-Port Models** Up to 70 Gbps

PoE+ Flexibility

The EdgeSwitch 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.

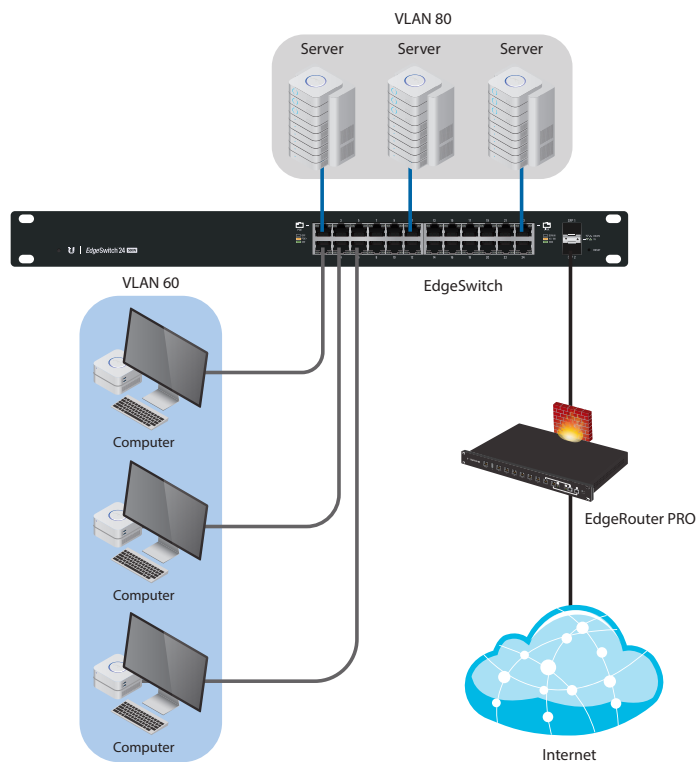
By default, the EdgeSwitch automatically detects 802.3af/at devices so they automatically receive PoE. For 24V Passive PoE devices, manually enable 24V passive PoE using the EdgeSwitch Configuration Interface.

Fiber Connectivity

The EdgeSwitch provides fiber connectivity options for your growing networks. The 8, 16, and 24-port models include two SFP ports, providing up to 1 Gbps uplinks.

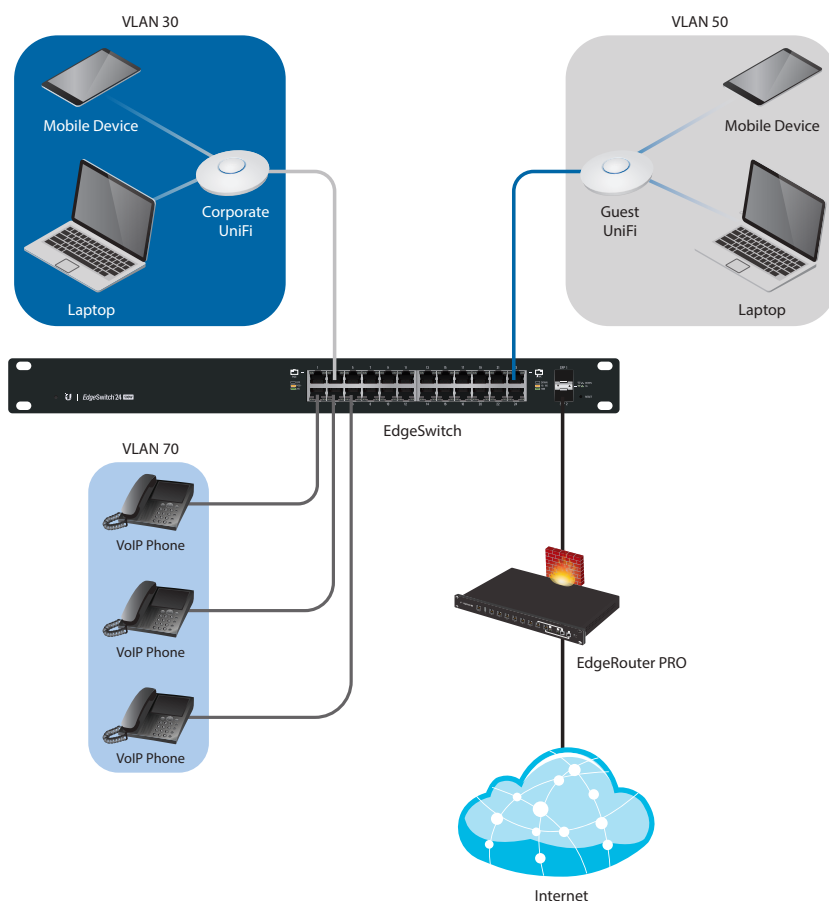
For high-capacity uplinks, the 48-port models include two SFP and two SFP+ ports, providing uplinks of up to 10 Gbps.

Deployment Examples



VLANs for Servers and Computers

The EdgeSwitch connects to the Ubiquiti EdgeRouter™ PRO via an SFP uplink.



VLANs for Corporate Wireless, Guest Wireless, and VoIP

For wireless access, two Ubiquiti UniFi® Access Points connect to the EdgeSwitch.

EdgeSwitch™ 8 150W

Hardware Specifications

ES-8-150W			
Dimensions	204 x 43 x 235 mm (8.03 x 1.69 x 9.25")		
Weight	Without Mount Brackets	With Mount Brackets	
	1.72 kg (3.79 lb)	1.8 kg (3.96 lb)	
Total Non-Blocking Throughput	10 Gbps		
Switching Capacity	20 Gbps		
Forwarding Rate	14.88 Mpps		
Max. Power Consumption	Includes PoE Output	Excludes PoE Output	
	150W	20W	
Power Method	AC	DC	
	100-240VAC/50-60 Hz, AC/DC Integrated PSU, Universal Input	42 to 56VDC External, (Self-Correcting Polarity Protection) Terminal Block Input	
Power Supply	AC/DC, Internal, 150W DC		
LEDs Per Port	RJ45 Data Ports	SFP Data Ports	
	PoE, Speed/Link/Activity	Speed/Link/Activity	
Networking Interfaces	(8) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports		
Management Interface	(1) RJ45 Serial Port, Ethernet In/Out Band		
Certifications	CE, FCC, IC		
Wallmount	Yes		
ESD/EMP Protection	Air: ±24 kV, Contact: ±24 kV		
Operating Temperature	Internal AC/DC @ 150W	Internal AC/DC @ 100W	External DC
	-25 to 45° C (-13 to 113° F)	-25 to 55° C (-13 to 131° F)	-25 to 60° C (-13 to 140° 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

EdgeSwitch™ 16 150W

Hardware Specifications

ES-16-150W		
Dimensions	443 x 43 x 221 mm (17.44 x 1.69 x 8.70")	
Weight	Without Mount Brackets	With Mount Brackets
	2.80 kg (6.17 lb)	2.89 kg (6.37 lb)
Total Non-Blocking Throughput	18 Gbps	
Switching Capacity	36 Gbps	
Forwarding Rate	26.78 Mpps	
Max. Power Consumption	Includes PoE Output	Excludes PoE Output
	150W	28W
Power Method	100-240VAC/50-60 Hz, Universal Input	
Power Supply	AC/DC, Internal, 150W DC	
LEDs Per Port	RJ45 Data Ports	SFP Data Ports
	PoE, Speed/Link/Activity	Speed/Link/Activity
Networking Interfaces	(16) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports	
Management Interface	(1) RJ45 Serial Port, 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

EdgeSwitch™ 24

Hardware Specifications

ES-24-250W, ES-24-500W				
Dimensions	485 x 43.7 x 285.4 mm (19.09 x 1.72 x 11.24")			
Weight	ES-24-250W		ES-24-500W	
	4.7 kg (10.4 lb)		4.8 kg (10.6 lb)	
Total Non-Blocking Throughput	26 Gbps			
Switching Capacity	52 Gbps			
Forwarding Rate	38.69 Mpps			
Max. Power Consumption	ES-24-250W		ES-24-500W	
	Includes PoE Output	Excludes PoE Output	Includes PoE Output	Excludes PoE Output
	250W	30W	500W	30W
Power Method	100-240VAC/50-60 Hz, Universal Input			
Power Supply	ES-24-250W		ES-24-500W	
	AC/DC, Internal, 250W DC		AC/DC, Internal, 500W DC	
LEDs Per Port	RJ45 Data Ports		SFP Data Ports	
	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, 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

EdgeSwitch™ 48

Hardware Specifications

ES-48-500W, ES-48-750W				
Dimensions	485 x 43.7 x 374.6 mm (19.09 x 1.72 x 14.75")			
Weight	ES-48-500W		ES-48-750W	
	6.1 kg (13.5 lb)		6.5 kg (14.3 lb)	
Total Non-Blocking Throughput	70 Gbps			
Switching Capacity	140 Gbps			
Forwarding Rate	104.16 Mpps			
Max. Power Consumption	ES-48-500W		ES-48-750W	
	Includes PoE Output	Excludes PoE Output	Includes PoE Output	Excludes PoE Output
	500W	64W	750W	64W
Power Method	100-240VAC/50-60 Hz, Universal Input			
Power Supply	ES-48-500W		ES-48-750W	
	AC/DC, Internal, 500W DC		AC/DC, Internal, 750W DC	
LEDs Per Port	RJ45 Data Ports		SFP+/SFP Data Ports	
	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, 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