



Edge Switch 16 150W

Managed PoE+ Gigabit Switch with SFP

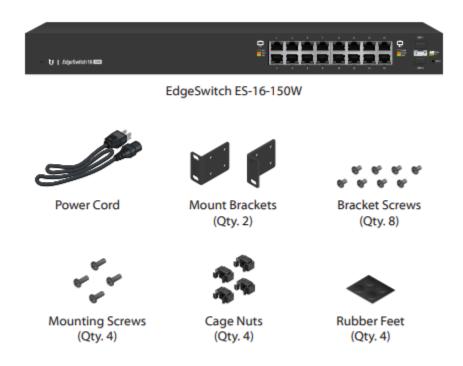
Model: ES-16-150W

QUICK START GUIDE

Introduction

Thank you for purchasing the Ubiquiti Networks® EdgeSwitch®. This Quick Start Guide is designed to guide you through the installation and also includes the warranty terms.

Package Contents

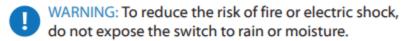


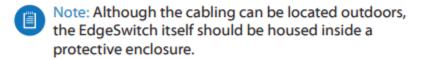
TERMS OF USE: All Ethernet cabling runs must use CAT5 (or above). It is the professional installer's responsibility to follow local country regulations, including operation within legal frequency channels, output power, indoor cabling requirements, and Dynamic Frequency Selection (DFS) requirements.

Installation Requirements

- Phillips screwdriver (for rack or wall mounting)
- Standard-sized, 19" wide rack with a minimum of 1U height available (for rack mounting)
- For indoor applications, use Category 5 (or above) UTP cabling approved for indoor use.
- For outdoor applications, shielded Category 5 (or above) cabling should be used for all wired Ethernet connections and should be grounded through the AC ground of the power supply.

We recommend that you protect your networks from harmful outdoor environments and destructive ESD events with industrial-grade, shielded Ethernet cable from Ubiquiti Networks. For more details, visit www.ubnt.com/toughcable





Hardware Overview

Front Panel Ports



Port	Description
RJ45 1-16	RJ45 ports support 10/100/1000 Ethernet connections.
SFP 1-2	Hot-swappable SFP ports support 1 Gbps connections.

Front Panel LEDs



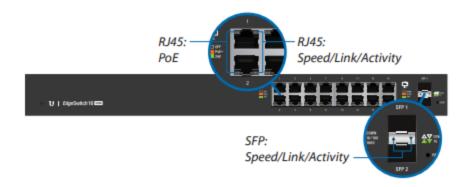
System LED



Note: The System LED functionality has been updated with firmware v1.8.0. We recommend that you update the EdgeSwitch to the latest firmware.

State	Status	
Flashing White	Bootup in progress.	
White	Ready for use, not connected to Ubiquiti® Network Management System (UNMS™).	
Blue	Ready for use, connected to UNMS.	
Steady Blue with Occasional Flashing	Ready for use, unable to connect to UNMS, check connection to UNMS server.	
Quickly Flashing Blue	Used to locate a device in UNMS.	
Alternating Blue/White	Firmware upgrade in progress.	

You can use the EdgeSwitch Configuration Interface or UNMS to manage your device. UNMS lets you configure, monitor, upgrade, and back up your devices using a single application. Get started at www.unms.com



RJ45 LEDs

LED	State	Status
PoE	Off	No PoE
	Amber	IEEE 802.3af/802.3at
	Green	24V Passive
Speed/ Link/ Activity	Off	No Link
	Amber	Link Established at 10/100 Mbps
	Amber Flashing	Link Activity at 10/100 Mbps
	Green	Link Established at 1000 Mbps (1 Gbps)
	Green Flashing	Link Activity at 1000 Mbps (1 Gbps)

SFP LEDs

LED	State	Status
Speed/ Link/ Activity	Off	No Link
	Green	Link Established at 1 Gbps
	Green Flashing	Link Activity at 1 Gbps

Front Panel Button



Button	Description	
	There are two methods to reset the EdgeSwitch to factory defaults:	
	Runtime Reset (Recommended)	
Reset	The EdgeSwitch should be running after bootup is complete, and the System LED is white. Press and hold the Reset button. The EdgeSwitch will reboot, and the System LED becomes blue after three seconds. Continue to hold the Reset button for about 15 seconds until the System LED flashes blue for two seconds. This indicates that the EdgeSwitch has reset to its factory defaults.	
	Power-on Reset	
	 Disconnect the Power Cord from the EdgeSwitch. 	
	 While connecting the Power Cord to the EdgeSwitch, hold the Reset button for about 15 seconds until the System LED flashes blue for two seconds. This indicates that the EdgeSwitch has reset to its factory defaults. 	

Back Panel Console Port



Port	Description	
Console	RJ45 serial console port for Command Line Interface (CLI) management. Use an RJ45-to-DB9, serial console cable, also known as a rollover cable, to connect the <i>Console</i> port to your computer. Then configure the following settings as needed:	
Corisole	Baudrate 115200 Containing 2	
	• Data bits 8	
	Parity NONE	
	Stop bits 1	
	Flow control NONE	

Hardware Installation

The EdgeSwitch can be placed on a horizontal surface, mounted in a rack, or mounted on a wall.



WARNING: FAILURE TO PROVIDE PROPER VENTILATION MAY CAUSE FIRE HAZARD. KEEP AT LEAST 20 MM OF CLEARANCE NEXT TO THE VENTILATION HOLES FOR ADEQUATE AIRFLOW.

Place the *Rubber Feet* on the bottom of the EdgeSwitch if you do not plan to mount it. For rack or wall mounting, follow the appropriate steps:

Specifications

ES-16-150W		
Dimensions	443 x 43 x 221 mm (17.44 x 1.69 x 8.70")	
Weight With Mount Brackets	2.80 kg (6.17 lb) 2.89 kg (6.37 lb)	
Total Non-Blocking Line Rate	18 Gbps	
Max. Power Consumption	150W	
Power Method	100-240VAC/50-60 Hz, Universal Input	
Power Supply	AC/DC, Internal, 150W DC	
Shock and Vibration	ETSI300-019-1.4 Standard	
LEDs Per Port RJ45 Data Ports SFP Data Ports	PoE, Speed/Link/Activity Speed/Link/Activity	
Networking Interfaces	(16) 10/100/1000 Mbps RJ45 Ports (2) 1 Gbps SFP Ports	
Management Interface	UART Console Out-of-Band, Ethernet In-Band	
PoE Interfaces	PoE+ IEEE 802.3af/at (pins 1, 2+; 3, 6-) 24VDC Passive PoE (pins 4, 5+; 7, 8-)	
Voltage Range 802.3at Mode 24V Passive PoE	50-57V 20-27V	
Max. Wattage per Port PoE+ Passive PoE	34.2W 17W	
Rack-Mount	Yes, 1U High	
Operating Temperature	-5 to 40° C (23 to 104° F)	
Operating Humidity	5 to 95% Noncondensing	
Certifications	CE, FCC, IC	