



## EdgeSwitch<sup>®</sup> LITE

Managed Gigabit Switches with SFP

Models: ES-24-Lite, ES-48-Lite

Non-Blocking Throughput Switching Performance

Gigabit Ethernet RJ45 Ports

SFP+/SFP Fiber Connectivity Options





## Advanced Switching Technology for the Masses

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

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

### Switching Performance

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

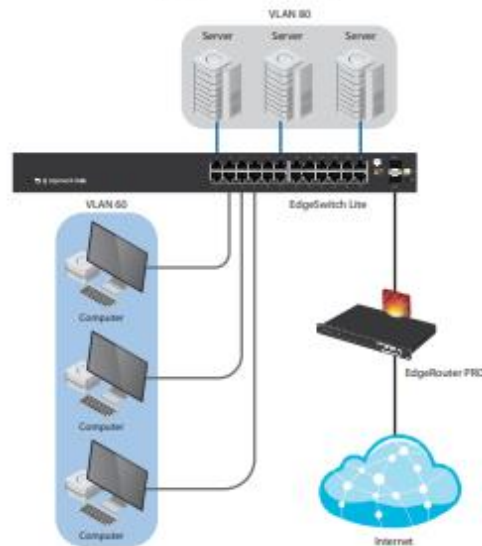
For its total, non-blocking throughput, the 24-port models support up to 26 Gbps, while the 48-port models support up to 70 Gbps.

### Fiber Connectivity

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

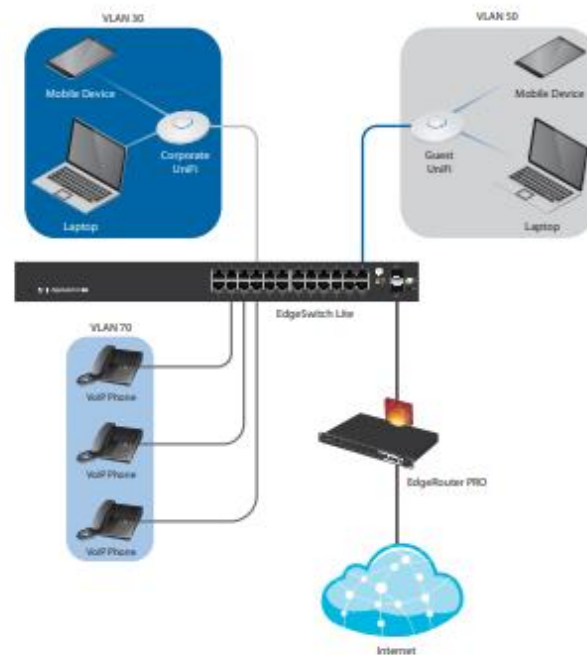
For high-capacity uplinks, the 48-port models include two SFP and two SFP+ ports, providing up to 10 Gbps uplinks.

## Deployment Examples



VLANs for Servers and Computers

The EdgeSwitch Lite 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 Lite.

## Comprehensive User Interface

Designed for convenient management, the EdgeSwitch Lite Configuration Interface allows administrators to configure and monitor switch features in a graphical user interface.

For advanced users, an industry-standard command-line interface (CLI) is available through the serial console port, telnet, and SSH.



## Powerful Functionality

The EdgeSwitch Lite uses a sophisticated operating system that provides basic switching features, and a variety of advanced features including:

- MSTP/RSTP/STP
- VLAN, Private VLAN, Voice VLAN
- Link Aggregation
- DHCP Snooping, IGMP Snooping
- TACACS+, RADIUS, 802.1X, MAC Filtering, ACL
- DiffServ, CoS
- Static Routing, Policy-Based Routing



## EdgeSwitch 24 Lite

Model: ES-24-Lite

- (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: 25W
- Rack- or Wall-Mountable
- DC Input Option (Redundant or Stand-Alone)



Front Panel



Back Panel

## EdgeSwitch 48 Lite

Model: ES-48-Lite

- (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: 56W
- Rack- or Wall-Mountable
- DC Input Option (Redundant or Stand-Alone)



Front Panel



Back Panel

# EdgeSwitch<sup>®</sup> 24 LITE

## Hardware Specifications

ES-24-Lite	
Dimensions	443 x 43 x 221 mm (17.44 x 1.69 x 8.70")
Weight	
Rack-Mount Brackets Included	2.6 kg (5.7 lb)
Rack-Mount Brackets Excluded	2.51 kg (5.53 lb)
Total Non-Blocking Throughput	26 Gbps
Switching Capacity	52 Gbps
Forwarding Rate	38.69 Mpps
Max. AC Power Consumption	25W
Power Method	
AC	100-240VAC/50-60 Hz, Universal Input
DC	DC 25W, 25 to 16V, with 2.5 mm DC Power Inline Connector
Power Supply	AC/DC, Internal, 25W DC
LEDs Per Port	
Serial Console Port	N/A
RJ45 Data Ports	Speed/Link/Activity
SFP Data Ports	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

# EdgeSwitch<sup>®</sup> 48 LITE

## Hardware Specifications

ES-48-Lite	
Dimensions	443 x 43 x 286 mm (17.44 x 1.69 x 11.26")
Weight	
Rack-Mount Brackets Included	3.65 kg (8.05 lb)
Rack-Mount Brackets Excluded	3.56 kg (7.85 lb)
Total Non-Blocking Throughput	70 Gbps
Switching Capacity	140 Gbps
Forwarding Rate	104.16 Mpps
Max. AC Power Consumption	56W
Power Method	
AC	100-240VAC/50-60 Hz, Universal Input
DC	DC 56W, 25 to 16V, with 2.5 mm DC Power Inline Connector
Power Supply	AC/DC, Internal, 56W DC
LEDs Per Port	
Serial Console Port	N/A
RJ45 Data Ports	Speed/Link/Activity
SFP+/SFP Data Ports	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



## Software Specifications

Software Information	
Core Switching Features	<ul style="list-style-type: none"><li>• ANSI/TIA-1057: LLDP-Media Endpoint Discovery (MED)</li><li>• IEEE 802.1AB: Link Layer Discovery Protocol (LLDP)</li><li>• IEEE 802.1D: Spanning Tree Compatibility</li><li>• IEEE 802.1S: Multiple Spanning Tree Compatibility</li><li>• IEEE 802.1W: Rapid Spanning Tree Compatibility</li><li>• IEEE 802.1Q: Virtual LANs with Port-Based VLANs</li><li>• IEEE 802.1p: Ethernet Priority with User Provisioning and Mapping</li><li>• IEEE 802.1X: Port-Based Authentication with Guest VLAN Support</li><li>• IEEE 802.3: 10BASE-T</li><li>• IEEE 802.3u: 100BASE-T</li><li>• IEEE 802.3ab: 1000BASE-T</li><li>• IEEE 802.1ak: Virtual Bridged Local Area Networks - Amendment 07: Multiple Registration Protocol</li><li>• IEEE 802.3ac: VLAN Tagging</li><li>• IEEE 802.3ad: Link Aggregation</li><li>• IEEE 802.3x: Flow Control</li><li>• IEEE 802.1D-2004: Generic Attribute Registration Protocol: Clause 12 (GARP)</li><li>• IEEE 802.1D-2004: Dynamic L2 multicast registration: Clause 10 (GMRP)</li><li>• IEEE 802.1Q-2003: Dynamic VLAN registration: Clause 11.2 (GVRP)</li><li>• RFC 4541: Considerations for Internet Group Management Protocol (IGMP) Snooping Switches</li><li>• RFC 5171: Unidirectional Link Detection (UDLD) Protocol</li></ul>
Advanced Layer 2 Features	<ul style="list-style-type: none"><li>• Broadcast Storm Recovery</li><li>• Broadcast/Multicast/Unknown Unicast Storm Recovery</li><li>• DHCP Snooping</li><li>• IGMP Snooping Querier</li><li>• Independent VLAN Learning (IVL) Support</li><li>• Jumbo Ethernet Frame Support</li><li>• Port MAC Locking</li><li>• Port Mirroring</li><li>• Protected Ports</li><li>• Static MAC Filtering</li><li>• TACACS+</li><li>• Voice VLANs</li><li>• Unauthenticated VLAN</li><li>• Internal 802.1X Authentication Server</li></ul>