



EdgeSwitch[®] 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.

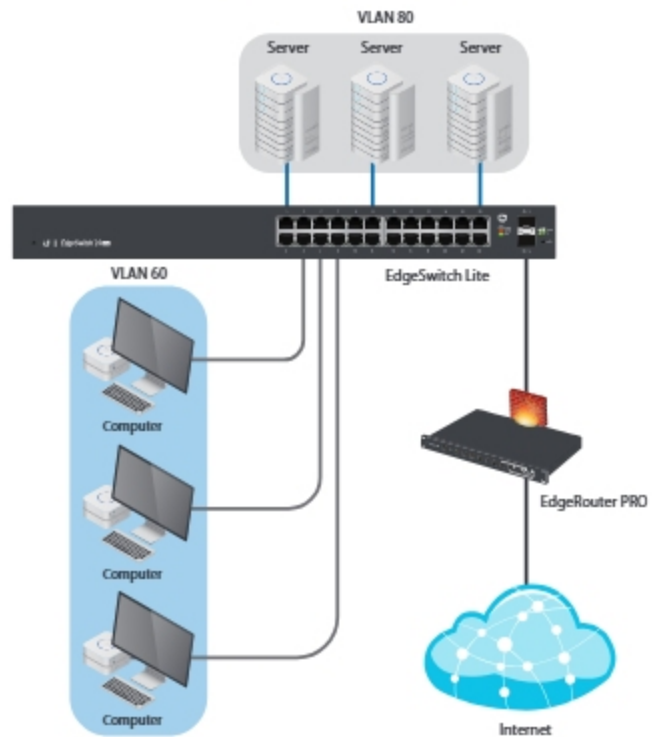
For its total, non-blocking throughput, the 24-port models support up to 26 Gbps, while the 48-port models support up to 70 Gbps.

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.

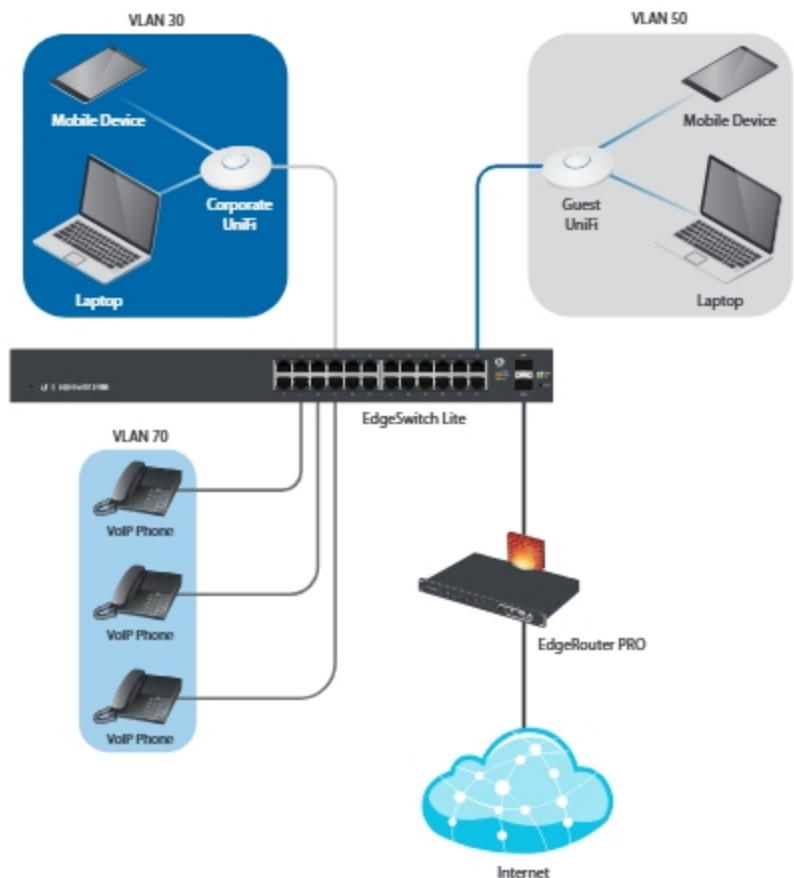
For high-capacity uplinks, the 48-port models include two SFP and two SFP+ ports, providing up to 10 Gbps uplinks.

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.

Models

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

| Software Information | |
|-------------------------|---|
| Platform Specifications | <ul style="list-style-type: none"> • DHCP Server <ul style="list-style-type: none"> • Maximum Number of Pools: 128 • Maximum Number of Leases (Total): 2048 • Routing <ul style="list-style-type: none"> • Number of Routes: 16 • Number of Routing Interfaces: 15 • VLANs: 4093 • MAC Addresses: 16,384 • MSTP Instances: 4 • LAGs: 6 • ACLs: 100 with 10 Rules per Port • Traffic Classes (Queues): 8 |
| System Facilities | <ul style="list-style-type: none"> • Event and Error Logging Facility • Run-Time and Configuration Download Capability • PING Utility • FTP/TFTP Transfers via IPv4/IPv6 • Malicious Code Detection • BootP and DHCP • RFC 2021: Remote Network Monitoring Management Information Base Version 2 • RFC 2030: Simple Network Time Protocol (SNTP) • RFC 2819: Remote Network Monitoring Management Information Base • RFC 2865: RADIUS Client • RFC 2866: RADIUS Accounting • RFC 2868: RADIUS Attributes for Tunnel Protocol Support • RFC 2869: RADIUS Extensions • RFC 3579: RADIUS Support for EAP • RFC 3580: IEEE 802.1X RADIUS Usage Guidelines • RFC 3164: BSD Syslog Protocol |
| Management | <ul style="list-style-type: none"> • Web UI • Industry-Standard CLI • IPv6 Management • Password Management • Autoinstall Support for Firmware Images and Configuration Files • SNMP v1, v2, and v3 • SSH 1.5 and 2.0 • SSL 3.0 and TLS 1.0 • Secure Copy (SCP) • Telnet (Multi-Session Support) |
| Layer 3 Routing | <ul style="list-style-type: none"> • Static Routing |

Software Information

QoS

- Access Control Lists (ACLs), Permit/Deny Actions for Inbound IP and Layer 2 Traffic Classification Based on:
 - Time-Based ACL
 - Source/Destination IP Address
 - TCP/UDP Source/Destination Port
 - IP Protocol Type
 - Type of Service (ToS) or Differentiated Services (DSCP) Field
 - Source/Destination MAC Address
 - EtherType
 - IEEE 802.1p User Priority
 - VLAN ID
 - RFC 1858: Security Considerations for IP Fragment Filtering
- Optional ACL Rule Attributes
 - Assign Flow to a Specific Class of Service (CoS) Queue
 - Redirect Matching Traffic Flows
- Differentiated Services (DiffServ)
 - Classify Traffic Based on Same Criteria as ACLs
 - Mark the IP DSCP or Precedence Header Fields, Optional
 - Police the Flow to a Specific Rate with Two-Color Aware Support
 - RFC 2474: Definition of the Differentiated Services Field (DS field) in the IPv4 and IPv6 Headers
 - RFC 2475: An Architecture for Differentiated Services
 - RFC 2597: Assured Forwarding Per-Hop Behavior (PHB) Group
 - RFC 3246: An Expedited Forwarding PHB
 - RFC 3260: New Terminology and Clarifications for DiffServ
- Class of Service (CoS) Queue Mapping Configuration
 - AutoVoIP: Automatic CoS Settings for VoIP
 - IP DSCP-to-Queue Mapping
 - Configurable Interface Trust Mode (IEEE 802.1p, DSCP, or Untrusted)
 - Interface Egress Shaping Rate
 - Strict Priority versus Weighted Scheduling per Queue



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