Datasheet



EdgeSwitch a

Gigabit Switches with PoE and SFP

EldeSwitch TOL

Models: ES-10X, ES-10XP

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Gigabit Ethernet RJ45 Ports

SFP Ports for Fiber Connectivity

Power over Ethernet Options





Optimized for WISP Deployments

Ubiquiti Networks introduces the EdgeSwitch® 10X and EdgeSwitch 10XP, our most affordable managed switches with SFP ports.

For the EdgeSwitch 10X, model ES-10X, eight Gigabit RJ45 ports offer copper connectivity with PoE input on port 1 and 24V PoE passthrough on port 8. Two SFP ports offer fiber connectivity.

For the EdgeSwitch 10XP, model ES-10XP, eight Gigabit RJ45 ports offer copper connectivity with 24V PoE output, while two SFP ports offer fiber connectivity.

Switching Performance

Delivering top price/performance value, the EdgeSwitch offers the forwarding capacity to simultaneously process traffic on all ports at line rate without any packet loss, as well as an extensive suite of advanced Layer 2 switching features and protocols.

For its total, non-blocking throughput, the EdgeSwitch supports up to 10 Gbps.

Fiber Connectivity

The EdgeSwitch includes two SFP ports, providing up to 1 Gbps uplinks.

PoE Flexibility

To simplify your infrastructure, the EdgeSwitch 10XP offers configurable 24V passive PoE on all RJ45 ports, while the EdgeSwitch 10X offers configurable 24V PoE passthrough on port 8.

Easy Management

The browser-based configuration interface offers intuitive control using a redesigned UI. Management is also available through the Ubiquiti[®] Network Management System (UNMS[™]), which is a comprehensive management controller featuring an easy-to-use UI. You can use a single control plane to manage registered EdgeMAX[®] devices across multiple networks and sites.

Deployment Examples



VLANs for Servers and Computers

The EdgeSwitch 10X powers the NanoStation[®] 5AC, an airMAX[®] AC CPE functioning in router mode.



Power over Ethernet Switching

The EdgeSwitch 10XP powers a variety of airMAX AC CPEs: the IsoStation^m 5AC, LiteBeam[®] 5AC Gen2, and NanoBeam[®] 5AC Gen2. Its SFP ports connect to the EdgeRouter^m 4 and an off-site network.

Ubiquiti Network Management System

0	ALL (12)	ACTIVE (12)	DISCONNECTED (0) DIS	ABLED (0) UNAU	THORIZED (0) UNKNOW	IN (0) ADD	DEVICE	DOWNLO/	D BACKUPS UPGRADE DE	VICES FIRMWARE		
*		STATUS	NAMET	VERSION	MODEL	IP ADDRESS	SIGNAL		ASSIGNED TO	ACTIONS		
		ACTIVE	EdgeSwitch 10K	0.2.0	EdgeSwitch 1000	10.43.11.118			Gateway site	» move 🖒 resta	RT 📥 FIRMW	at
		ACTIVE	EdgeSwitch 10KP	0.2.0	EdgeSwitch 1000P	10.43.11.111			Gateway site	» MOVE () RESTA	RT 📩 FIRMW	25.
*		ACTIVE	airCube ISP	4 2.31 (HTAL	airCube ISP	192.168.1.100			OLT site / airCube client	» MOVE () RESTA	RT 📥 FIRMWA	ar
		ACTIVE	ERX	1.10.5	EdgeRouter X	10.44.25.236			Gateway site	» NOVE () RESTA	ат 📩 нания	3.0
	(<u>?</u>)	ACTIVE	LiteBeam 5AC 23	↑ 8.5.6 MTR2	LiteBeam SAC 23	192.168.1.101	_	-55 dBm	air Max Site / air Max Client	» MOVE () RESTA	ит 📥 панни	ALC: NO
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۲	1100	ACTIVE	Rocket Prism SAC Gen2	A 8.5.6 (HTAR)	Rocket Prism SAC Gen2	192.168.1.102		-53 dBm	airMax Site	» MOVE () RESTA		
P	Showing 1-12	t of 12 record	s. Items per page: 50									
~												

Use UNMS to register and manage multiple EdgeMAX devices.

Comprehensive User Interface

Sporting an updated design for an improved user experience, the EdgeSwitch Configuration Interface allows you to configure and monitor switch features in a graphical user interface. It offers intuitive management with a virtual view of the ports, showing physical connectivity, speed, and PoE status.

Advanced Features

The EdgeSwitch provides a variety of advanced features, including:

- Port Monitoring
- Virtual Local Area Network (VLAN) Configuration
- Spanning Tree Protocol (STP, MSTP, and RSTP)
- Device Discovery Tool
- Jumbo Frame Support
- DHCP Snooping
- Port Isolation
- Ping Watchdog

EdgeSwitch Configuration Interface

	Total throu	ughput	Active po		Po	rt utilization							
	10. Mb	5.5		0% orts				5 6 7	1 				
	dgeSwite 1d 22h 25m		MAC ADDRESS 04:18:d6:a0:c5:a8 IP ADDRESS 10:43:11.111/24					1 2 3 4 2 1 1 1	5 0 7 0 9	50			(
Р	ort sumr	mary											
	Port	Portname		1 RX		† TX		PoE	Mode (Status)	LAG			
	1	Port 1		19 Kbps		7 Kbps		24V 👻	Auto (1 Gbps FDX)		()	ð	۵
	2	Port 2						Off 👻	Auto 👻		()	ð	Φ
	3	Port 3						Off +	Auto 👻		()	ð	Φ
	4	Port 4						Off 👻	Auto 👻		0	ð	ф
	5	Port 5						Off +	Auto 👻		1	ð	ф
	6	Port 6						Off 👻	Auto 👻		()	ð	φ
	7	Port 7		4.1 Mbps	III	101.3 Mbps		Off *	Auto (1 Gbps FDX)		()	ð	ф
	8	Port 8		101.2 Mbps		4.1 Mbps	III.	Off 🔻	Auto (1 Gbps FDX)	Received 826.313Mi8		ð	φ
	9	Port 9						Off	Auto 🔻	3978498 pack Sent 661.049 MiB 8622504 pack		ð	¢
C										Dropped/Errors 0/20			

The Dashboard screen shows system and port status information.

MAX EdgeSwitch 10XP				• UNMS	
System Settings		RESET	APPLY		
Device name			Services		
EdgeSwitch X			UNMS Cabled		
			UNMS key wss://unms.local:443+aMscxSyxSkAG64285zou.GTJE8Ks-11156G2-IWMACPRML		
Management IP			WSJUIIIIIIIUUUUUUUUUUUUUUUUUUUUUUUUUUUUU		
IPv4 Network mode DHCP Static IP			Remote system log Disabled-		
IP Address 10.43.11.111	Primary DNS 10.43.11.1				
Subnet mask 255.255.0	Secondary DNS		SSH server Carbon Enabled		
Gateway IP 10.43.11.1	Management VLAN ID		22 (n)		
IPv6 Network mode	Stateless Address AutoConfig Mode		Web server Server secure part Server part Server secure part B0 Image: Comparison of the secure part		
IP address fe80::618:d6ff:fea0:c5a8/64	Gateway IP		SNTP client Disabled		
			Add server		
Spanning Tree Protocol			Device discovery		
Version			 Respond to UBNT discovery probes 		
RSTP (802.1w)	•		Scan neighborhood		
Max age	Hello time				
20	2		System actions		
Forward delay	Priority		BACKUP RESTORE () ()		
15	32768		$\downarrow ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~$		

Configure system settings and services.



Create VLANs and configure VLAN settings.

Models

EdgeSwitch 10X

Model: ES-10X

- (8) Gigabit RJ45 Ports
- (2) SFP Ports
- Non-Blocking Throughput: 10 Gbps
- Switching Capacity: 20 Gbps
- Forwarding Rate: 14.88 Mpps
- Supports PoE Input on Port 1
- Software-selectable PoE Passthrough on Port 8
- Powered by 24V Passive PoE or External AC/DC Adapter
- DC Jack Supports Battery Backup with EdgePower[™] (sold separately)
- Wall- or Rack-Mountable*

EdgeSwitch 10XP

Model: ES-10XP

- (8) Gigabit RJ45 Ports
- (2) SFP Ports
- Non-Blocking Throughput: 10 Gbps
- Switching Capacity: 20 Gbps
- Forwarding Rate: 14.88 Mpps
- Supports 24V Passive PoE Output on All RJ45 Ports
- Powered by External AC/DC Adapter
- DC Jack Supports Battery Backup with EdgePower (sold separately)
- Wall- or Rack-Mountable*

* Use the optional ER-RMKIT for rack-mounting.







Back Panel



Front Panel

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Back Panel

EdgeRouter Rackmount Kit

Model: ER-RMKIT

The EdgeRouter Rackmount Kit is an optional accessory. Its mounting bracket adjusts to the width of the EdgeSwitch 10X or 10XP.



EdgeSwitch 10 **Hardware Specifications**

	ES-10X
Dimensions	207 x 31.1 x 90 mm (8.15 x 1.22 x 3.54")
Weight	500 g (1.10 lb)
Total Non-Blocking Throughput	10 Gbps
Switching Capacity	20 Gbps
Forwarding Rate	14.88 Mpps
Max. Power Consumption (Excluding PoE Output)	8W
Power Method	24VDC, 1A or 24V Passive PoE
Supported Voltage Range	9 - 30VDC
Power Supply	24VDC, 1A Power Adapter (Included) or 24V Passive PoE
LEDs Per Port System RJ45 Data Ports SFP Data Ports	Status Link/Speed/Activity Link/Activity
Networking Interfaces	(8) 10/100/1000 Mbps RJ45 Ports (2) 1 Gbps SFP Ports
Management Interface	Ethernet In-Band
Certifications	CE, FCC, IC
Rackmount	Yes*
ESD/EMP Protection	Air: ±24 kV, Contact: ±24 kV
Operating Temperature	-10 to 50° C (14 to 122° F)
Operating Humidity	5 to 95% Noncondensing
Shock and Vibration	ETSI300-019-1.4 Standard
	* Use the optional ER-RMKIT for rackmounting.

	PoE (Port 8)
PoE Interface	24VDC Passive PoE (Pins 4, 5+; 7, 8-)
Max. Passive PoE Wattage per Port	15W
24V Passive PoE Voltage Range	24V

*Edge*Switch[®]10 B Hardware Specifications

	ES-10XP
Dimensions	207 x 31.1 x 90 mm (8.15 x 1.22 x 3.54")
Weight	500 g (1.10 lb)
Total Non-Blocking Throughput	10 Gbps
Switching Capacity	20 Gbps
Forwarding Rate	14.88 Mpps
Max. Power Consumption (Excluding PoE Output)	8W
Power Method	24VDC, 2.5A
Supported Voltage Range	9 - 30VDC, 5A
Power Supply	24VDC, 2.5A Power Adapter (Included)
LEDs Per Port System RJ45 Data Ports SFP Data Ports	Status PoE, Speed/Link/Activity Link/Activity
Networking Interfaces	(8) 10/100/1000 Mbps RJ45 Ports (2) 1 Gbps SFP Ports
Management Interface	Ethernet In-Band
Certifications	CE, FCC, IC
Rackmount	Yes*
ESD/EMP Protection	Air: ±24 kV, Contact: ±24 kV
Operating Temperature	-10 to 50° C (14 to 122° F)
Operating Humidity	5 to 95% Noncondensing
Shock and Vibration	ETSI300-019-1.4 Standard
	* Use the optional ER-RMKIT for rackmounting.

	PoE
PoE Interface	(8) 24VDC Passive PoE (Pins 4, 5+; 7, 8-)
Max. Passive PoE Wattage per Port	15W
24V Passive PoE Voltage Range	24V

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