

EdgeConnect 800PoE Managed Power over Ethernet Switch

Introduction

The EdgeConnect 800PoE is a flexible, easy-to-use, managed power over Ethernet switch ideal for converged voice, video and data applications.

Incorporating all of the features needed for today's converged networking environment the EdgeConnect 800PoE simplifies installation, improves QoS for voice and video over IP while offering a central management interface for ease of administration.



Feature Rich, Simple to Use - Key Features

- 8 x 10BASE-T/100BASE-T Autosensing RJ-45 Ethernet ports
- 2 x 10BASE-T/100BASE-TX/1000BASE-T Autosensing port with RJ-45 or mini-GBIC SFP Fiber connectors
- Automated setup when used in conjunction with Edgewater's EdgeMarc and EdgeView products
- In-line Ethernet power (802.3af and Cisco legacy)
- Per port optional power sourcing
- Full wire-speed forwarding
- 802.1Q/p support for 255 port and tag based active VLANs
- Port mirroring
- Broadcast, known multicast, and unknown unicast storm control
- IEEE 802.3ad Link Aggregation Control Protocol (LACP) for better bandwidth management.
- Differentiated management of up to 4 traffic classes per port using 802.1p
- Per port Ethernet rate limiting
- MAC address based security per port, IEEE 802.1X port-based access control using RADIUS for user authentication
- Management/Monitoring: integration with EdgeView and support for SNMP, and http.

Product Benefits

Plug & Dial Installation

With the EdgeView VoIP Support System the VoIP installation is automated with the EdgeConnect 800PoE switch and any EdgeMarc router. Simply plug the cables in, apply power and all of the settings required to deliver business-class VoIP are configured (including VLANs, priority queuing, traffic shaping, address assignment).

Advanced Remote Administration

Reduce the need for onsite service calls or administration with the many remote management tools provided by the 800PoE. These include port mirroring for advanced diagnostics, RMON, SNMP, http, Telnet and more.

QoS and VLANs To Ensure Quality Voice and Video

The EdgeConnect 800PoE prioritizes voice and video traffic over data using per port or 802.1Q tagged VLANs. Up to 256 VLAN entries can be configured. The 800PoE also supports traffic classification by 802.1p and DSCP.

Integrated Power Management

Power over Ethernet capability reduces costs by eliminating the need for additional power supplies and AC wiring co-resident with IP phones.

Greater Reliability

An external UPS can be used to provide backup power to the EdgeConnect 800PoE in the event of a power outage. Using this configuration distributed enterprise IP phones will continue to operate by receiving power from the 800PoE.



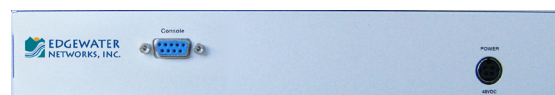
Converged Networking. Simplified.

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Specifications

Power, Dimensions, Safety	
Dimensions	
Height	1.73" (44 mm)
Width	10.35" (263 mm)
Depth	6.69" (170 mm)
Weight (Net/Gross)	2.87 lbs (1.3 Kg)/4.41 lbs (2.0 Kg)
Total Maximum Power	
	120W
Regulatory	
UL, cUL	Yes
CB	Yes
Electromagnetic Compatibility	
CE Mark	Yes
FCC Class A	Yes
CISPR Class A	Yes
RoHS	Yes
Environmental Specifications	
Standard operating temperature	32oF (0oC) to 113oF (45oC)
Non-operating temperature	-40oF (-40oC) to 158 oF (70oC)
Humidity	20% to 85% (Non-condensing)
Vibration	IEC 68-2-36, IEC 68-2-6
Drop	IEC 68-2-32

Performance	
Switching Capacity	5.6 Gbps
Forwarding Rate	13.3 Mpps
MAC Address Table Size	8K
Packet Buffer Size	3 Mb



Interfaces	
Ethernet Ports	
Connector Type	8 RJ-45
Auto-negotiating	Yes
10/100 Mbps	Yes
Duplex	Full or Half
IEEE 802.3x flow control at full-duplex	Yes
Combo Ethernet Ports	
Connector Type	2 RJ-45/SFP
Auto-negotiating	Yes
10/100/1000 Mbps	Yes
Duplex	Full or half
IEEE 802.3x flow control at full-duplex	Yes
RS-232 Console port	Yes

L2 Features	
Auto-negotiation for port speed and duplex mode flow control	
IEEE 802.3x for full duplex mode	Yes
Back-Pressure for half duplex mode	Yes
Spanning Tree Protocol	
802.1D Spanning Tree Protocol (STP)	Yes
802.1w Rapid Spanning Tree Protocol (RSTP)	Yes
802.1s Multiple Spanning Tree (MST)	Yes
802.1q based VLANs total	256
Link Aggregation	
Static Trunk	Yes
IEEE 802.3ad Link Aggregation Control Protocol	Yes
Trunk Groups	3
Trunk Links	2~8
Per port rate limiting (ingress/outgress)	Yes (64 Kbps)
MAC addresses per port	24

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QoS	
Hardware priority queues per port	4
Traffic Classification	
Based on IEEE 802.1p	4 classes
DSCP	Yes
WRR and Strict priority support	Yes
Storm Control	
Broadcast	Yes
Known Multicast	Yes
Unknown Unicast	Yes
IGMP snooping	Yes
One-to-one or many-to-one Port Mirroring	Yes

Ordering Information/SKU	
EC-800PoE-01	EdgeConnect 800POE Switch
EC-800PoE5PK-01	EdgeConnect 800PoE Switch, 5 Pack
EC-800PoE10PK-01	EdgeConnect 800PoE Switch, 10 Pack

Security	
802.1X port-based access control	Yes
Password-protection on web interface	Yes
Per-port IP address filtering	Yes
Management access filter configuration	Yes
Management VLAN for administration	Yes
Port security (Static and dynamic learning mode)	Yes
TACACS+ authentication	Yes

Management	
Web based configuration	Yes
Text-based management through in-band telnet session	Yes
Remotely upgradeable (dual image)	HTTP, TFTP
Configuration backup/restore	Yes
RMON	Yes
SNMP	v1, v2c, v3
SNTF	Yes

PoE	
Total power available to all PoE ports	90 W
Maximum power that can be provided by a port	30 W
Equal power per port	11.25 W