EdgeConnect 2402PoE LF Power over Ethernet Switch

Introduction

The EdgeConnect 2402PoE LF Power over Ethernet (PoE) Switch is a flexible, easy-to-use, managed power over Ethernet LAN switch that is ideal for converged voice, video and data applications.

Incorporating all of the features needed for today's converged networking environment the EdgeConnect 2402PoE LF Switch provides many benefits including:

- Fully-featured, managed, PoE switch that is optimized for converged voice, video and data applications.
- Automated configuration reduces costs and simplifies VoIP installations.

Feature Rich, Simple to Use - Key Features

- Automated setup when used in conjunction with Edgewater's EdgeMarc and EdgeView products
- 24 x 10/100 Mbps Autosensing Ethernet ports
- 2 x 10/100/1000 Mbps Autosensing, Ethernet uplinks or high speed server ports with RJ-45 or SFP Fiber connectors
- In-line Power over Ethernet (802.3af) with automatic power device detection (legacy in-line support)
- Per port optional power sourcing
- Full wire-speed forwarding
- L2/L4 traffic management
- 802.1Q VLAN support
- 802.1p based Quality of Service (QoS) with priority queuing
- Link aggregation (802.3ad)
- Broadcast storm control
- Management: integration with EdgeView NMS and support for SSH and Telnet

Product Benefits

Performance and Scalability
The EdgeConnect 2402PoE LF delivers wire-speed switching performance on all ports. It supports 12 ports with max power of 15.4 watts or 24 ports with max power of 7.5 watts that can transfer power over existing CAT 5 cables to distances of up to 100 meters (330 feet).

Enhanced Security
Access Control Lists (ACLs) restrict the access to network resources by denying packets based on source and destination MAC addresses, IP addresses and TCP/UDP ports.

Greater Reliability
Rapid Spanning Tree Protocol provides a loop free network and redundant links to the core network. Rapid convergence ensures fast recovery from failed links and enhances overall network stability and reliability.

Simplified Installation...Just Add Phones!
When using Edgewater's EdgeView Network Management System (version 5.9 or later) the VoIP installation is automated including the EdgeConnect 2402PoE LF switch and the award-winning EdgeMarc network services gateways. Simply plug the cables in, apply power and all of the settings required to deliver business-class VoIP including VLANs, priority queuing, traffic shaping, address assignment and more are configured.
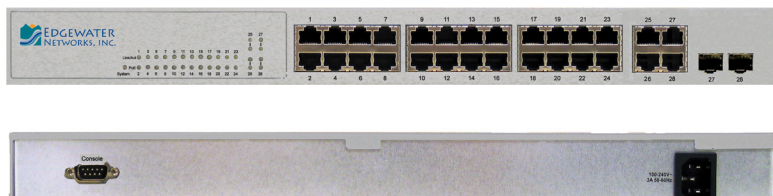
Specifications

Interfaces

Ethernet Ports	**24**
Connector Type	RJ-45
Auto-negotiating	Yes
10/100 Mbps	Yes
Duplex	Half or Full
IEEE 802.3x flow control at full-duplex	Yes
Combo Ethernet Ports	**2**
Connector Type	RJ-45/SFP
Auto-negotiating	Yes
10/100/1000 Mbps	Yes
Duplex	Half or Full
IEEE 802.3x flow control at full-duplex	Yes
RS-232 DB-9 Console port (Male)	Yes

Performance

Switching Capacity	12.8 Gbps
Forwarding Rate	9.8 Mpps
MAC Address Table Size	8K entries
Packet Buffer Size	4 Mbits

Power, Dimensions, Safety

Dimensions	
Height	1.69" (4.3 cm)
Width	17.32" (44 cm)
Depth	12.8" (32.5 cm)
Weight	9.13 lbs (4.13 Kg)
Power	
Total Maximum power	300 W
Regulatory	
CE Mark	Yes
FCC Class A	Yes
VCCI Class A	Yes
CISPR Class A	Yes
RoHS	Yes
Environmental Specifications	
Standard operating temperature	0˚C to 45˚C
Non-operating temperature	-40˚C to 70˚
IEC	68-2-14
Humidity	10% to 90% (Non-condensing)

Management

Text-based management through in-band telnet session and out-of-band RS232 console port (VT100), CLI via console port or Telnet	Yes
SSH based CLI access	Yes
Web based configuration	Yes
Remotely upgradable (TFTP)	Yes
Configuration backup/restore	Yes
SNMP v1, v2c, v3 support	Yes
MIB II (RFC1213), Ethernet Interface MIB (RFC1643), Bridge MIB (RFC1493), Trap MIB (RFC1215), RADIUS MIB (RFC2618)	Yes
4-Group (1,2,3,9) RMON (RFC1757)	Yes
TACACS, Access Control List, SSH (v1.5/v2.0), SSL	Yes
BOOTP, DHCP for IP address assignment	Yes
Supports SNTP	Yes

PoE

Total power available to all PoE ports	180 W
Maximum power that can be provided for up to 12 ports	15.4 W
Equal power per port	7.5 W

Specifications

Features	
Complies with IEEE802.3, IEEE802.3x and IEEE802.3af, and Cisco legacy in-line power	Yes
802.1D spanning tree support (STP)	Yes
IEEE 802.1W rapid spanning tree support (RSTP)	Yes
IEEE 802.3x for full duplex mode	Yes
IEEE 802.1p priority support	Yes
IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)	Yes
Up to 4 priority queues to separate real time traffic and deliver multiple classes of service for data (strict or weighted round robin)	Yes
Traffic classification based on IEEE 802.1p, COS, IP and DSCP, ACL.	Yes
Support WRR and Strict Scheduling Bandwidth control: • Ingress rate limiting: meeting 64KB increment (Accuracy up to ~80%) • Egress rate limiting: shaping at 64KB increment (Accuracy up to ~95%)	Yes
Tagged VLAN: up to 255 IEEE 802.1Q based VLANs	Yes
Port-based VLAN: VLAN configuration based on switch port	Yes
Supports VLAN trunking, GVRP	Yes
IEEE 802.1v Protocol-based VLANs	Yes
IEEE 802.1x port based network access control	Yes
IEEE 802.3ad link aggregation support (LACP)	Yes
Trunk groups : 4, Trunk links: 2-8	Yes
Dynamic Host Configuration Protocol (DHCP) and BootP support	Yes
IGMP snooping (v1 and v2), IGMP Querier	Yes
Supports jumbo frames up to 9KB	Yes
Traffic rate limits and control	Yes
Automatic power device detection	Yes

Ordering Information/SKU	
EC-2402LFPOE-01	2402LFPOE EdgeConnect Managed Power over Ethernet Switch
EC-2402LFPOE5Pk-01	2402LFPOE EdgeConnect Managed Power over Ethernet Switch, 5 pack
EC-2402LFPOE10Pk-01	2402LFPOE EdgeConnect Managed Power over Ethernet Switch, 10 pack

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