

ES3528M-PoE L2 Fast Ethernet Standalone PoE Switch



Product Overview

The Edge-Core ES3528M-PoE is a Fast Ethernet Layer 2/4 Standalone PoE switch featuring 24 10/100Base-T ports plus 2 10/100/1000Base-T RJ45 and 2 Gigabit combo ports (RJ45/SFP).

It is an ideal for desktop Fast Ethernet connectivity and for powering devices such as VoIP phones, wireless access points, IP camera, etc, and for delivering data and power simultaneously over existing CAT 5 cables.

It also has IP clustering management feature support up to 36 switches using a single IP address .

IEEE 802.3af PoE compliant capability with 12 ports maximum power 15.4W or 24 ports maximum power 7.5W, ES3528M-PoE provides different power for devices on various environment.

Ethernet Switch

Key Features and Benefits

Performance and Scalability

With 12.8Gbps switching capacity, the ES3528M-PoE delivers wire-speed and Non-Blocking switching performance on all ports and simultaneously followed IEEE 802.3af PoE capability 12 ports maximum power 15.4W or 24 ports maximum power 7.5W. Two SFP ports of the combo G allows users to long distance connections to remote site.

Continuous Availability

IEEE 802.1w Rapid Spanning Tree Protocol provides a loop-free network and redundant links to core networks with rapid convergence to ensure faster recovery from failed links, enhancing overall network stability and reliability.

IEEE 802.3ad Link Aggregation Control Protocol (LACP) increases bandwidth by automatically aggregating several physical links together as a logical trunk and provides load balancing and fault tolerance for uplink connection.

IGMP snooping prevents flooding of IP multicast traffic and limits bandwidth intensive video traffic to only the subscribers.

Comprehensive QoS

Up to 8 aggregation groups are supported, and up to 8 ports per group.

Traffic is prioritized according to 802.1p, DSCP, IP precedence and TCP/UDP port number, L2/3/4 ACL (Access Control List) giving optimal performance to real-time applications such as voice and video.

Asymmetric bidirectional rate-limiting, per port or per traffic class, preserves network bandwidth and allowing maximum control of network resources.



Enhanced Security

Port Security ensures access to a switch port based on MAC address, Filter or limits the total number of devices from using a switch port and protects from MAC flooding attacks.

IEEE 802.1X port-based access control Access Control Lists (ACLs) restrict access to sensitive network resources by denying packets based on source and destination MAC addresses, IP addresses and TCP/UDP ports.

Security Shell (SSH) and Secure Sockets Layer (SSL/HTTPS) encrypt network management information via Telnet and web, providing secure network management.

Private VLAN isolates edge ports to ensure user privacy.

Simple Management

Industry standard Command Line Interface (CLI) via console port or Telnet provides a common user interface and command set for users to manipulate the switch.

Embedded user friendly web interface helps users quickly and simply configure switches. SNMPv1, v2c, v3 network management is supported as well as four groups RMON for traffic management, monitoring and analysis.

TFTP can be used to backup and restore firmware and configuration files.

PoE Features

It can transfer data and up to 15.4 Watts (12ports) power to VoIP phones, wireless access points, surveillance cameras, etc, over existing CAT 5 cables to distances of up to 100 meters. The need for individual power sources is eliminated, saving on costs for power cable installation and avoiding power outlet availability issues later.

If the power demand exceeds the switch's maximum power supply, ports can be prioritized to receive power.

ES3528M-PoE Product Specifications

Features

Physical Ports

- 24 RJ-45 10/100 Base-T ports with PoE (Power Over Ethernet)
- 2 10/100/1000 Base-T ports
- 2 Combo G (RJ-45/ SFP) ports
- 1 RS-232 DB-9 console port

Performance

- Switching Capability: 12.8 Gbps
- Forwarding Rate: 9.5 Mpps
- MAC Address Table Size: 8K entries
- Packet Buffer Size: 4Mbits

L2 Features

Auto-negotiation for port speed and duplex mode

Flow Control:

- IEEE 802.3x for full duplex mode
- Store & Forward switching methods
- Back-Pressure for half duplex mode

Spanning Tree Protocol:

- IEEE 802.1D Spanning Tree Protocol (STP)
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
- IEEE802.1s Multiple Spanning Tree Protocol (MSTP)

VLANs:

- Supports 255 IEEE 802.1Q VLANs
- Supports VLAN Tagging
- IEEE 802.1v Protocol-based VLANs
- Private VLAN
- GVRP

Link Aggregation:

- Static Trunk
- IEEE 802.3ad Link Aggregation Control Protocol
- Trunk links : 2~8 port

IGMP Snooping:

- IGMP v1/ v2 /v3* Multi-cast snooping
- IGMP Querier

Supports jumbo frames

QoS Features

Priority Queues: 4 hardware queues per port

Traffic classification based on IEEE 802.1p CoS, IP and DSCP, ACL

Supports WRR and Strict scheduling

Bandwidth Control:

- Ingress rate limiting: metering at 64KB increment (Accuracy up to ~80%)
- Egress rate limiting: shaping at 64KB increment (Accuracy up to ~95%)

Broadcast Storm Control prevents faulty end stations from degrading overall system performance.

Security

Supports IEEE 802.1X port-based access control

MAC Authentication

Web Authentication

RADIUS authentication

DHCP Snooping

DHCP Option 82

IP Source Guard

Voice VLAN

Guest VLAN

TACACS+ 3.0

Support Access Control Lists L2/L3/L4

SSH (v1.5/v2.0*)

SSL

AAA with RADIUS and TACACS+

Management

Switch Management:

■ CLI via console port or Telnet

■ WEB management

■ SNMP v1, v2c, v3

Firmware & Configuration:

- Dual firmware images
- Firmware upgrade via TFTP server
- Multiple configuration files
- Configuration file upload/download via TFTP server

Supports RMON (groups 1, 2, 3 and 9)

Supports BOOTP, DHCP for IP address assignment

Supports SNTp

Supports Remote power supply management (Enable/Disable/Limit)

Event/Error Log/Syslog

(Optional) ECview is a powerful network management software that maximizes the managed capabilities of Edge-Core devices:

- Topology Management
- Performance Management
- Configuration Management
- Event Management
- SNMP Management

PoE Features

IEEE 802.3af compliant

Supports up to 15.4W for 12ports and 7.5W for each port

Total power for PoE: 180W

Mechanical

Dimensions (H x W x D): 43 x 440 x 330 mm (1RU) Weight:4.13 kg

19" rack-mount metal case

LED Indicators: Port, Uplink, System, Diagnostic

Safety

UL/ CUL ; CSA/CUS (UL60950-1, CSA 22.2.No 60950-1)

TUV/GS (EN60950-1) ; CB (IEC60950-1)

Electromagnetic Compatibility

CE Mark

FCC Class A

VCCI Class A

CISPR Class A

Environmental Specifications

Temperature:

- IEC 68-2-14
- 0°C to 45°C (Standard Operating)
- -40°C to 70°C (Non-Operating)

Humidity: 10% to 90% (Non-condensing)

MTBF : 8 Years

Warranty

Limited lifetime warranty

Ordering Information

Optional Accessories

- ET4201-SX
- ET4201-LX
- ET4201-LHX
- ET4201-ZX

ECview (*)

Product Description

- Small Form Factor Pluggable (Distance: 500m; Wavelength: 850nm)
- Small Form Factor Pluggable (Distance: 10km; Wavelength: 1310nm)
- Small Form Factor Pluggable (Distance: 40km; Wavelength: 1310nm)
- Small Form Factor Pluggable (Distance: 80km; Wavelength: 1550nm)

SNMP Network Management Software



Powered by Accton

TEL: 886-3-5053801 FAX: 886-3-5780764

No.1, Creation Rd. III, Science-based Industrial Hsinchu 30077

sales_ec@edge-core.com

www.edge-core.com