

## 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.

# ES3528M-PoE L2 Fast Ethernet Standalone PoE Switch



## Key Features and Benefits

### Performance and Scalability

With 12.8Gbps switching capacity, the ES3528M-PoE delivers wire-speed 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

IEEE 802.1X port-based access control ensures all users are authorized before being granted access to the network.

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
- 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
  - 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
  - Port-based VLANs
  - 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\* 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%)

### 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 SNMP
- 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 325 mm (1RU) Weight:4.13 kg
- 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



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