

ES3528MF-PoE

L2 Fast Ethernet Standalone PoE Switch



Product Overview

The Edge-Core ES3528MF-PoE is a Fast Ethernet layer 2 standalone PoE switch featuring 24 10/100Base-TX ports plus 2 10/100/1000Base-T RJ-45 and 2 Gigabit combo ports (RJ-45/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. IEEE802.3af PoE compliant capability with 24 ports maximum power 15.4W.

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 24 ports maximum power 15.4W .

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 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.



Features

Physical Ports

24 RJ-45 10/100 Base-TX ports with auto-negotiation
 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
 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 24 ports
 Total power for PoE: 375W

Mechanical

Dimensions (H x W x D): 43 x 440 x 171 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)

Warranty

Limited lifetime warranty

Ordering Information

Optional Accessories

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

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)