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 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.

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 SNTP
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 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℃ to 45℃ (Standard Operating)
- -40℃ to 70℃ (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