

ES3526VA-PoE

L2 Fast Ethernet Stackable PoE Switch



Product Overview

The Edge-Core ES3526VA-PoE is a Fast Ethernet Layer 2/4 Stackable PoE switch featuring 26 ports; 24 10/100 RJ-45 and 2 combo GE RJ-45/SFP ports. It is ideal for desktop Fast Ethernet connectivity and for powering devices such as IP phones, wireless access point, surveillance cameras, etc, delivering data and power simultaneously over existing CAT 5 cables.

The innovative stacking technology allows stacks of up to 8 units with 2Gbps stacking bandwidth over GE RJ-45 ports. The whole stack can be managed as a single entity with a single IP address.

Key Features and Benefits

Performance and Scalability

With 8.8Gbps switching capacity, the ES3526VA-PoE delivers wire-speed switching performance on all ports and simultaneously provides up to 15.4 Watts power to power devices (PD) which conform to IEEE 802.3af and pre-802.3af devices.

Stack up to 8 units to increase port density to up to 192 Fast Ethernet ports and 2 Gigabit Ethernet ports with 2Gbps stacking bandwidth over GE RJ-45 ports.

ES3526VA-PoE stacks can be managed as a single entity with a single IP address.

Stack-wide trunking provides up to 2G uplink bandwidth and protects against link failure.

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.

Optional Redundant Power Supply provides uninterrupted power.

Comprehensive QoS

4 egress queues per port enable differentiated management of up to 4 traffic types.

Traffic is prioritized according to 802.1p, DSCP, IP precedence and TCP/UDP port number, 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, v2 network management is supported as well as four groups RMON for traffic management, monitoring and analysis.

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

PoE Features

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.

The ES3526VA-PoE works as a centralized power distributor that can auto-detect power devices and power consumptions.

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

ES3526VA-PoE Product Specifications

Features

Physical Ports

24 RJ-45 10/100Base-T ports
2 Combo G (RJ-45/SFP) ports
1 RS-232 DB-9 console port
1 Redundant Power Supply Connector

Performance

Switching Capacity: 8.8Gbps
Forwarding Rate: 6.6Mpps
MAC Address Table Size: 8K
Packet Buffer Size: 32MB

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)
- IEEE 802.1s 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 groups: 6, Trunk links: 2-8

IGMP Snooping:

- IGMP v1 and v2 snooping
- IGMP Querier

Supports jumbo frames up to 9KB

Stacking Features

Stacking Bandwidth: 2Gbps
Close loop stacking
Stack-wide trunking

QoS Features

Priority Queues: 4 hardware queues per port
Traffic classification based on IEEE 802.1p CoS, IP Precedence, DSCP, TCP/UDP port number, Access Control List
Supports WRR and Strict scheduling
Bandwidth Control:

- Egress rate limiting: 1Mbps granularity
- Ingress rate limiting: 1Mbps granularity

Security

Supports IEEE 802.1X port-based access control
RADIUS authentication
TACACS+
Access Control List
SSH (v1.5/v2.0)
SSL

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 each port
Total power for PoE: 375W

Mechanical

Dimensions (H x W x D): 4.3 x 44.0 x 41.5 cm (1RU)
LED Indicators: Port, Uplink, System, Diagnostic, Stack/Master

Safety

CSA/NRTL (UL60950, CSA 22.2.No 60950-00)
TUV/GS (EN60950)
CB

Electromagnetic Compatibility

CE Mark
FCC Class A
VCCI Class A
CISPR Class A

Environmental Specifications

Temperature:

- IEC 68-2-14
- 0°C to 50°C (Standard Operating)
- -40°C to 70°C (Non-Operating)

Humidity: 5% to 90% (Non-condensing)
Vibration: IEC 68-2-36, IEC 68-2-6
Shock: IEC 68-2-29
Drop: IEC 68-2-32

Warranty

Limited lifetime warranty

Ordering Information

Optional Accessories

RPS575W

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

ECview

Product Description

4 redundant power supply connectors (Supports max. power output 120W/12V per port)
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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