

ES3526XA

L2 Fast Ethernet Standalone Switch



Product Overview

The Edge-Core ES3526XA is a Fast Ethernet Layer 2/4 Standalone switch featuring 26 ports; 24 10/100 ports and 2 combo Gigabit Ethernet RJ-45/SFP (Small Form Factor Pluggable) ports. It is ideal for desktop Fast Ethernet connectivity and wiring closet installations. This standalone switch is packed with features and is a cost-effective solution that brings continuous availability, enhanced security and advanced QoS to the network edge, while maintaining simplicity of management.

Ethernet Switch

Key Features and Benefits

Performance and Scalability

With 8.8Gbps switching capacity, the ES3526XA delivers wire-speed performance on all ports connecting end stations and users to corporate networks.

Two Gigabit Ethernet combo ports allow uplink flexibility for copper or fiber use.

Various optional Gigabit Ethernet mini-GBIC transceivers can be chosen for different distance fiber uplinks.

Continuous Availability

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

IEEE 802.1Q VLAN-segmented Broadcast Domains reduce broadcast traffic and increase LAN security and performance.

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 connections.

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

Broadcast storm control prevents faulty end stations from degrading overall system performance.

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 allows maximum control of network resources.

Enhanced Security

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

IEEE 802.1X port-based access control ensures all users are authorized before being granted access to the network. User authentication is carried out using any standard-based RADIUS server.

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. This is done by hardware, so switching performance is not compromised.

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

TACACS+/RADIUS Authentication enables centralized control of the switch and restricts unauthorized users from altering the configuration of the switch.

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 management is supported as well as four groups RMON for traffic management, monitoring and analysis.

While upgrading firmware or fine tuning configuration of the switch, dual software images and multiple configuration files can be used for backup.

TFTP configuration and firmware files for backup and restoration.

ES3526XA 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

Performance

Switching Capability: 8.8Gbps
Forwarding Rate: 6.6Mpps
MAC Address Table Size: 8K
Packet Buffer Size: 4Mb

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)

VLANs:

- Supports 255 IEEE 802.1Q VLANs
- Port-based VLANs
- Private VLAN
- GVRP

Link Aggregation:

- Static Trunk
- IEEE 802.3ad Link Aggregation Control Protocol
- Trunk groups: 4, Trunk links: 2-8

IGMP Snooping:

- IGMP v1 and v2 snooping
- IGMP Querier

Supports jumbo frames up to 9KB

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: 512Kbps, 1Mbps, 3.3Mbps granularity
- Ingress rate limiting: 512Kbps, 1Mbps, 3.3Mbps 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 SNMP
Event/Error Log/Syslog
(Optional) ECview, a powerful network management software that maximizes the managed capabilities of Edge-Core devices with:

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

Mechanical

Dimensions (H x W x D): 43 x 440 x 324 mm (1RU)
LED Indicators: Port, Uplink, System, Diagnostic

Safety

CSA/NRTL (UL1950, CSA 22.2.9.50)
TUV/GS (EN60950)

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: 10% 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

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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