

ES3526YA/ES3550YA L2 Fast Ethernet Stackable Switch



Product Overview

The Edge-Core ES3526YA/ES3550YA is a Fast Ethernet Layer 2/4 Stackable switch featuring 28 or 52 ports; 24 or 48 10/100 RJ-45 ports, 2 combo Gigabit Ethernet RJ-45/mini-GBIC ports and 2 integrated stacking 10/100/1000 RJ-45 ports.

It is ideal for desktop Fast Ethernet connectivity and wiring closet installations for growing small medium businesses and campuses. Its innovative stacking technology allows the creation of stacks up to 8 units high with the industry's highest 4Gbps full-duplex stacking bandwidth. CAT 5 cables are used to stack the switches up to 100M apart. The whole stack can be managed as a single entity with a single IP address.

While working as a standalone switch, the 2 stacking ports can become uplink ports, gaining 2 extra Gigabit Ethernet ports.

Ethernet Switch

Key Features and Benefits

Performance and Scalability

The ES3526YA/ES3550YA can be stacked up to 8/4 units, increasing port density up to 192 Fast Ethernet ports and 16/8 gigabit ports.

Stacks can be managed with a single IP entity for greater management simplicity.

Closed loop stacking protects against stacking cable or unit failure within the stack.

Stack-wide trunking provides up to 8G uplink bandwidth and guards against link or unit failure.

Firmware and configurations are automatically upgraded from master to slave units for management simplicity

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 802.3ad Link Aggregation Control Protocol (LACP) increases bandwidth by automatically aggregating several physical links together as a logical trunk and providing 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.

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 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. Four groups of RMON are supported for traffic management, monitoring and analysis.

When upgrading firmware or fine tuning configurations, the dual software images and multiple configuration files can be used for back up.

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

ES3526YA/ES3550YA Product Specifications

Features

Physical Ports

- 24 or 48 RJ-45 10/100Base-T ports
- 2 Combo G (RJ-45/SFP) ports
- 2 1000Base-Tx stacking ports
- 1 RS-232 DB-9 console port
- 1 Redundant Power Supply Connector

Performance

- Switching Capacity: 12.8Gbps/17.6Gbps
- Forwarding Rate: 9.5Mpps/13.1Mpps
- MAC Address Table Size: 8K
- Packet Buffer Size: 0.5MB

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

Stacking Features

- Stacking Bandwidth: 4Gbps
- Mixed stacking for ES3526YA/ES3550YA
- Close loop stacking
- Stack-wide trunking
- Stack-wide port mirroring

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

- Access Control List
- RADIUS authentication
- TACACS+
- 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
 - Firmware upgrade via TFTP server
 - Multiple configuration files
 - Configuration file uploaded/downloaded 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): 4.3 x 44.0 x 32.4 cm (1RU)
- LED Indicators: Port, Uplink, System, Diagnostic, Stack/Master

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

- RPS600WA
- ET4201-SX
- ET4201-LX
- ET4201-LHX
- ET4201-ZX
- ECview

Product Description

- 4 DC output redundant power supply connectors (Supports max. power output 150W/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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DS_ES3526_50YA_V02
2007.08.09

*Future Release