

ES3526YA/ES3550YA L2 Fast Ethernet Stackable Switch



The Edge-Core ES3526YA/ES3550YA is a L2 stackable switch with 24/48 10/100BASE-T(RJ-45) ports and two Combo G (RJ-45/SFP) ports for Gigabit uplink and two IGbps ports for stacking.

Product Overview

The Edge-Core ES3526YA/ES3550YA is a switch with 24/48 Auto-MDI/X 10BASE-T/100BASE-TX ports, 2 Combo G (RJ-45/SFP) ports and 2 built-in stacking ports. With the capability of up to 8 stacking units, it is loaded with features such as VLANs, GVRP and IGMP, providing an easy-to-configure and easy-to-manage network environment. The ES3526YA/ES3550YA is perfect for cost-sensitive medium to large networks looking to strengthen its network connection. The ES3526YA/ES3550YA can be managed either by in-band management via the network station remotely or locally out-of-band management via the console port (RS232).

Key Benefits

High Performance

The unit comes equipped with a high-performance architecture with a total capacity of 12 Gbps. The GVRP allows automatic configuration of VLAN, and IGMP snooping to identify multicast traffic allowing an efficient utilization of the switch bandwidth. It also allows to aggregate greater bandwidth between devices by supporting IEEE 802.3ad (LACP). In addition, the IEEE 802.1p four queues help to prioritize time-sensitive applications such as multimedia voice traffic.

Advanced Stack-ability

Allow up to 8 ES3526YA/ES3550YA switches to be connected via four Gigabit bandwidth stackable modules to create a virtual manageable switch.

Flexible Uplink SFP ports

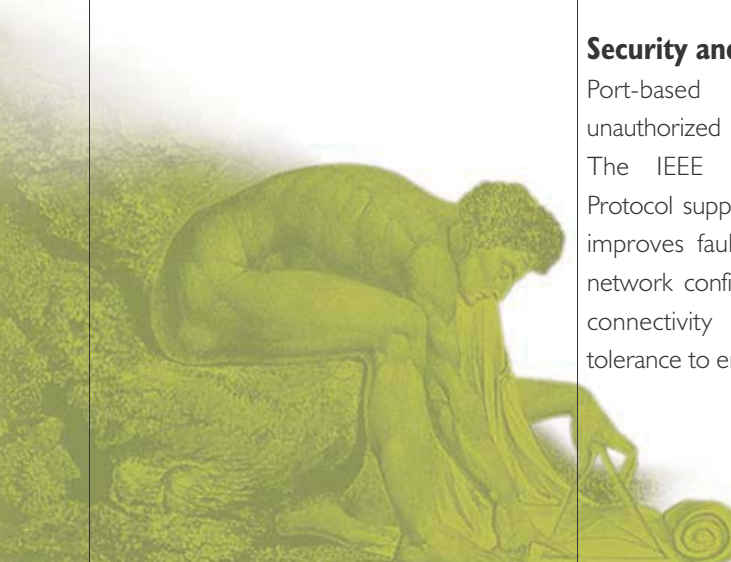
Two SFP ports support both single mode and multi mode Gigabit fiber to allow network managers the flexibility to upgrade their networks.

Security and Redundancy

Port-based MAC filtering prevents unauthorized user access to the switch. The IEEE 802.1D Spanning Tree Protocol support for loop-free networks improves fault tolerance and simplifies network configuration. In addition, RPU connectivity provides power fault tolerance to ensure a reliable system.

Comprehensive Manageability

The system can be managed and monitored via the SNMP/RMON protocol through any computer using network management software or via an Internet web browser. Comprehensive LED indicators are located on the front panel to assist network administrators in troubleshooting. The Port Mirroring feature provides a non-intrusive mechanism for traffic inspection across the whole switch. With the help of our powerful management features the status of the Edge-Core Switch can be obtained at a glance.



Specification

Physical Ports

- 24/48 RJ-45 10/100Base-T ports
- 2 Combo G (RJ-45/SFP) ports
- 2 Gigabit (RJ-45) ports for stacking

Memory & Processor

- Processor: ARM7 / 100MHz
- Packet buffering: 4Mb

L2 Features

- Full-duplex mode on port 25 and 26 when work in the Gigabit speed (ES3526YA)
- Full-duplex mode on port 49 and 50 when work in the Gigabit speed (ES3550YA)
- Stacking interface on the front panel
- Stacking up to 8 units via RJ-45 cables
- Auto MDI/MDIX on all 10/100Base-TX ports
- Up to 8K MAC address entries
- 4M-bit for packet buffer size
- Provides flow control mechanism: backpressure for half duplex; IEEE802.3x for full duplex operation
- Store-and-forward forwarding scheme
- HOL (Head of Line) blocking prevention
- Port mirroring
- Provides Link Aggregation
 - Up to 8 ports in one trunk
 - Up to 4 trunk groups
 - Trunks across switches
 - Supports 802.3ad (LACP)
 - Cisco Ether-channel (static truck)
 - Load Balance for both Unicast and Multicast traffics
- Supports VLAN
 - IEEE 802.1Q tagging VLAN
 - Port-based VLAN
 - Up to 255 active VLANs
 - GVRP protocol for automatic VLAN registration and dynamic VLAN management
 - Private VLAN
- IGMP (v1/v2) Snooping and Query function
- Broadcast Storm control
- Spanning Tree protocol
 - IEEE 802.1D Spanning Tree protocol
 - IEEE 802.1w Rapid Spanning Tree
 - Proprietary per port based Fast Forwarding mode
- Jumbo Frame Support

Security

- RADIUS (Authentication)
- TACACS+
- SSL
- SSH (v1.5 / v2.0)
- Access Control List
- Supports IEEE 802.1x port based security

Management

- Supports SNMP v1/v2c
- Supports RMON (groups 1,2,3 and 9)
- Supports Web-based management
- Supports TELNET console interface
- Supports BOOTP and DHCP for IP address assignment
- Supports firmware upgraded by TFTP file transfer protocol through the Ethernet network
- Supports Firmware image upgrade by TFTP protocol
- Supports dual Firmware images
- Supports Configuration file upload/download by TFTP protocol
- Supports two or more Configuration files
- HP Open View (Windows)
- SNMP access IP filtering configuration MAC based port security
- Provides 1 Male DB9 RS-232C console interface configured as DTE for operation, diagnostics, status, and configuration information
- Provides Command Line Interface from the console port using a VT-100 terminal
- Supports Sntp
- Event / Error Log

Quality of Service

- L2/L3/L4 Traffic Classification/Priority Management
 - CoS by IEEE 802.1p 4 priority queues control
 - Traffic Classification/Priority Management based on IP Precedence/TOS & DSCP/TOS
 - Traffic Classification/Priority Management based on TCP/UDP port number
 - Supports WRR for priority queues
 - Strict scheduling for priority queue
 - Rate Limiting (Ingress & Egress based)
- Supports Random Early Detection (RED)

Stacking Features

- Hot insertion and removal of stacking units
- Close Loop Stacking
- VLAN Membership across the stack
- Single IP address for management
- Trunking across the stack
- Packet Priority across the stack
- Port mirroring across stack

Mechanical

- Dimensions: 440mm x 324mm x 43mm (17.37" x 12.76" x 1.7")
- LED indicators: Port, Uplink, System, Diagnostic, Stack/Master

Performance

- Switch Fabric: 8.8 Gbps/12.8Gbps
- MAC address: 8K

Power Requirements

- Nominal Input Voltages: 110-240V
- Input Voltage Range: 12V
- Input Frequency: 47-63 Hz
- Maximum Power Consumption: 35W

Safety

- CSA/NRTL (UL 1950, CSA 22.2.9.50)
- TUV/GS (EN60950)

Electromagnetic Compatibility

- CE Mark
- FCC Class A
- VCCI Class A
- CISPR Class A

Environmental

- 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

IEEE Standards

- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX and 100BASE-FX
- IEEE 802.3z[3] 1000BASE-SX
- IEEE 802.3ab 1000BASE-T
- IEEE 802.ad Link Aggregation
- IEEE 802.3x flow control support
- IEEE 802.1p Priority support
- IEEE 802.3ac frame extension for VLAN tagging
- IEEE 802.1D (Bridging), 1993
- IEEE 802.1Q (Virtual LAN) 1998
- IEEE 802.1w Rapid Spanning Tree
- IEEE 802.1s Per VLAN Spanning Tree