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ES3628EA

L3 Fast Ethernet Switch



Product Overview

The Edge-Core ES3628EA is a Fast Ethernet Layer 3 stackable switch featuring 24 10/100 RJ-45 ports, 2 GE RJ-45 and 2 GE SFP ports. It is an ideal workgroup layer 3 switch, grouping users based on department, reducing traffic in separate departments from interfering with each other as well as providing security, while still routing unicast traffic between different vlans or subnets. Using IP Clustering for a virtual stack of up to 36 switches. The whole stack can be managed as a single entity with a single IP address. This switch is enhanced security and advanced QoS to the network edge, while maintaining simplicity of management.

Key Features and Benefits

Performance and Scalability

With 12.8Gbps switching capacity, the ES3628EA delivers wire-speed performance for Layer 2 switching and Layer 3 IP routing on all ports.

Reducing broadcast traffic from lowering network performance, providing security between different vlans, yet allowing unicast traffic to be routed.

The ES3628EA can use single IP to stack up to 36 units. The whole stack can be managed as a single entity with a single IP address.

Continuous Availability

IEEE 802.1w Rapid Spanning Tree Protocol provides a loop-free network and redundant links to the core network with rapid convergence.

IEEE 802.1s Multiple Spanning Tree Protocol runs STP per VLAN base, providing Layer 2 load sharing on redundant links.

IEEE 802.3ad (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

8 egress queues per port enable differentiated management of up to 8 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.

IEEE 802.1x port-based and MAC-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) can be used to restrict access to sensitive network resources by denying packets based on source and destination MAC addresses, IP addresses, TCP/UDP ports.

SSH, RADIUS and TACACS+ protect data communication and ensure data privacy.

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. Backup and restore firmware and configuration files via TFTP.

L3 Features

The ES3628EA delivers high-performance, hardware based IP routing.

RIP and OSPF provide dynamic routing by exchanging routing information with other Layer 3 switches or routers.

DVMRP, PIM-DM Multicast Routing Protocols send IP multicast traffic from one subnet to another.

VRRP prevents your system from failing by dynamically backing up multiple L3 switches for routing.

ES3628EA Product Specifications



Features

Physical Ports

- 24 RJ-45 10/100Base-X ports
- 2 10/100/1000 RJ-45 ports
- 2 Gigabit SFP ports
- 1 RS-232 DB-9 console port
- 1 Redundant Power Supply Connector

Performance

- Switching Capacity: 12.8Gbps
- Forwarding Rate: 9.5Mpps
- MAC Address Table Size: 16K
- Packet Buffer Size: 32MB

L2 Features

- Auto-negotiation for port speed and duplex mode
- Flow Control: IEEE 802.3x & Back-Pressure
- 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 4K IEEE 802.1Q VLANs, Port-based VLANs, GVRP
 - Private VLAN
 - QinQ / Protocol-based VLAN
- Link Aggregation:
 - Static Trunk, IEEE 802.3ad Link Aggregation Control Protocol
 - Max. groups:8, ports/trunk group: 2~8 ports
- MRPP(Multi-layer Ring Protection Protocol)
- IGMP Snooping:
 - IGMP v1/2/3 and IGMP snooping
 - IGMP Query/ Multicast VLAN (MVR)
- Supports jumbo frames up to 9KB

L3 Features

- 4K IP Address entries
- 16K static routes
- ARP, ARP Proxy
- Multi-netting, Super-netting (CIDR)
- RIPv1, RIPv2,OSPFv2
- DVMRP, PIM-DM, PIM-SM
- VRRP
- DHCP/BootP relay
- DHCP server

QoS Features

- Priority Queues: 8 hardware queues per port
- Traffic classification based on IEEE 802.1p CoS, IP Precedence, DSCP, TCP/UDP port number, Access Control List
- Supports SWRR, WRR and Strict scheduling
- Bandwidth Control:
 - Egress rate limiting: 64Kbps granularity
 - Ingress rate limiting: 64Kbps granularity

Security

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

Ordering Information

Optional Accessories

RPS600WA

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

Management

- Switch Management:
 - CLI via console port or Telnet
 - WEB management
 - SNMP v1, v2c,v3
- Firmware & Configuration:
 - Dual firmware images
 - Firmware upgrade via TFTP/FTP/xmodem
- Supports RMON (groups 1, 2, 3 and 9)
- Supports BOOTP, DHCP for IP address assignment
- Supports SNTP
- Event/Error Log/Syslog
- Supports IPv6 management

Mechanical

- Dimensions (H x W x D): 4.4 x 44.0 x 23.0 cm (1RU)
- LED Indicators: Port, Uplink, System, Diagnostic

Safety

- CSA/NRTL (UL1950, CSA 22.2.950)
- TUV/GS (EN60950)
- CB

Electromagnetic Compatibility

- CE Mark
- FCC Class A
- VCCI Class A

Power Supply

- AC Input
 - 100 to 240 V, 50-60 Hz, 0.8A
- Power Supply
 - Internal, auto-ranging transformer: 90 to 240 VAC, 47 to 63 Hz
 - External, supports connection for 14-pin redundant power supply
- Power Consumption
 - 28.44 Watts maximum

Environmental Specifications

- Temperature:
 - IEC 68-2-14
 - 0°C to 50°C (Standard Operating)
 - 40°C to 70°C (Non-Operating)
- Humidity: 5% to 95% (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

Product Description

4 DC output redundant power supply connectors (Supports Max. power output 150W/12V per port)

- SFP Optical Transceiver (Distance: 500m; Wavelength: 850nm; MMF)
- SFP Optical Transceiver (Distance: 10km; Wavelength: 1310nm; SMF)
- SFP Optical Transceiver (Distance: 40km; Wavelength: 1310nm; SMF)
- SFP Optical Transceiver (Distance: 80km; Wavelength: 1550nm; SMF)