

ES3628EA Layer 3 Fast Ethernet Standalone Switch



Product overview

The Edge-Core ES3628EA is a Fast Ethernet Layer 3 Standalone switch, featuring 24 Fast Ethernet 10/100 RJ-45 ports, 2 Gigabit Ethernet RJ-45 and 2 Gigabit SFP slots. An ideal workgroup Layer3 switching solution, the ES3628EA can group users based on department, reduce traffic in separate departments from interfering with each other, as well as providing robust security, while still routing unicast traffic between different VLANs or subnets.

KEY Features and benefits

Performance and Scalability

With 12.8Gbps switching capacity, the ES3628EA delivers wire-speed performance for Layer2 switching and Layer3 IP routing on all ports.

As a high performance L3 workgroup switch, the device can be used to segment broadcast domains based on the departments of small and medium business networks, reducing broadcast traffic and optimising network performance, providing security between different VLANs, yet allowing unicast traffic to be routed..

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 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 specific subscribers.

An optional Redundant Power Supply ensures uninterrupted power.

L3 Features

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

RIP and OSPF provide dynamic routing is supported by exchanging routing information with other Layer3 switches or routers.

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

VRRP prevents your system from failing by allowing multiple L3 switches to dynamically back each other up for routing.

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 access control ensures all users are authorised 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.

SSL, Web Management Encryption, 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.

An embedded user friendly web interface helps users quickly and simply configure switches.

SNMP v1, v2c is supported.

Four groups of RMON are supported.

Backup and restore firmware and configuration files via TFTP.

ES3628EA

Product Specifications

Features

Physical Ports

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

Performance

Switching Capability: 12.8Gbps
Forwarding Rate: 19Mpps
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 255 IEEE 802.1Q VLANs, Port-based VLANs, GVRP
- IEEE 802.1v Protocol-based VLANs
- Private VLAN

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 Queried

Supports jumbo frames up to 9KB

L3 Features

4K IP Address entries
256 static routes
ARP
Multi-netting, Super-netting (CIDR)
RIPv1, RIPv2
OSPF
DVMRP, PIM-DM
VRRP
DHCP/BootP relay
DHCP server
DNS proxy

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 WRR and Strict scheduling
Bandwidth Control:

- Egress rate limiting
- Ingress rate limiting

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

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 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

Mechanical

Dimensions (H x W x D): 44 x 440 x 415 mm (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

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

Ordering Information – Optional Accessories and Modules

Product Description

4 DC output redundant power supply connectors
(Supports maximum power output 150W/12V per port)
SNMP Network Management Software

Part Number

RPS600WA
ECview

A comprehensive range of multimode and singlemode Mini-GBIC modules are available. Please call for more information.

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