

## ES4308-PoE / ES4324

### Web Smart Gigabit Ethernet Switches



#### Product Overview

The Edge-Core web smart Gigabit Ethernet Switch featuring ES4308-PoE with 7 10/100/1000 Base-T ports plus 1 Gigabit combo ; ES4324 is 20 RJ-45 10/100/1000 BASE-T ports plus 4 combo Gigabit Ethernet RJ-45/SFP ports. This series switch enables networks of all sizes to introduce Gigabit Ethernet with management features targeted to meet the needs of the SMB network efficiently, and Gigabit to the desktop for power users. It is packed with features and is a cost-effective solution that brings continuous availability, QoS priority queuing with classification and prioritization at Layer2/Layer4. It's also an idea for customers are looking to migrate from unmanaged to managed networks, this smart switch is easy to manage and install its in different environments.

#### Key Features and Benefits

##### Advanced Performance and Scalability

ES4324 with 48 Gbps switching capacity delivers wire-speed switching performance on all gigabit ports. The gigabit switching capacity to allow users to take full advantage of existing high-performance, gigabit integrated Servers, PCs and laptops by significantly improving the responsiveness of applications and file transfer times. There are four Gigabit Ethernet combo ports for uplink flexibility, allowing copper or fiber uplinks .

ES4308-PoE can deliver maximum power up to 15.4W for 4 ports or 8 ports maximum power 7.5W simultaneously with IEEE 802.3af standard.

##### Continuous Availability

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

Broadcast Storm Control prevents faulty end stations from degrading overall system performance.

IEEE 802.1Q VLAN Tag is purpose to allow both port and tag based VLANs services on specific VLANs for specific customers need.

##### Comprehensive QoS

4 ingress queues per port enable differentiated management of up to 4 traffic types.

Traffic is prioritized according to 802.1p, DSCP, giving optimal performance to real-time applications such as voice and video.

Symmetric bidirectional rate-limiting, per port or per traffic class, preserves network bandwidth and allowing maximum control of network resources.

##### Enhanced Security

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

Advanced management access filter configuration and password-protection on web interface on the switch.

##### Simple Management

Embedded user friendly web interface helps users quickly and simply configure switches. It's also supports SNMP V2c to managed and control SNMP network devices.

# ES4308-PoE/ES4324 Product Specifications



## Features

### Physical Ports

ES4308-PoE: 7RJ-45 10/100/1000Base-T ports plus 1 Combo G (RJ-45/SFP) ports  
 ES4324: 20 RJ-45 10/100/1000Base-T ports plus 4 Combo G (RJ-45/SFP) ports

### Performance

Switching Capability:  
 ■ 18 Gbps (ES4308-PoE)  
 ■ 48 Gbps (ES4324)  
 Forwarding Rate:  
 ■ 13.3 Mpps (ES4308-PoE)  
 ■ 35.7 Mpps (ES4324)  
 MAC Address Table Size: 8K  
 Packet Buffer Size: 0.4Mb

### 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  
 Link Aggregation:  
 ■ Static Trunk  
 ■ IEEE 802.3ad Link Aggregation Control Protocol  
 ■ Trunk groups: 4 (ES4308-PoE) / 8 (ES4324), Trunk links: 2-8  
 IGMP Snooping:  
 ■ IGMP v1, v2 snooping  
 ■ IGMP Queried  
 Supports jumbo frames up to 9.6KB

### QoS Features

Priority Queues: 4 hardware queues per port  
 Traffic classification :  
 ■ Based on IEEE 802.1p (8 classes)  
 ■ DSCP  
 Supports WRR and Strict priority  
 Storm Control: Unknown / Multicast / Unicast  
 Bandwidth Control:  
 ■ Ingress Port Mirroring

### Security

Supports IEEE 802.1X port-based access control  
 Per-port IP address filtering  
 DHCP server filtering  
 Management access filter configuration  
 Password-protection on web interface

### Management

Switch Management:  
 ■ Web management  
 ■ SNMP v1, v2c agent  
 Firmware & Configuration:  
 ■ Web based software upgrade (Dual Image)  
 ■ Web based configuration file up/download  
 ■ Restore to Factory default

### Mechanical

Dimensions (H x W x D):  
 ■ 4.4 x 44 x 17cm (ES4324)  
 ■ 4.4 x 33 x 20.3 cm (ES4308-PoE)  
 Weight:  
 ■ 2.0 Kg (ES4324)  
 ■ 1.8 Kg (ES4308-PoE)  
 LED Indicators:  
 ■ Port, Link/Activity, 1000Mbps  
 ■ PoE: Amber: PD Connected (ES4308-PoE)  
 ■ Amber Blinking: Data transmission (ES4308-PoE)

### Safety

UL/CUL(UL60950-1, CSA60950-1)  
 CB (IEC60950-1)

### Electromagnetic Compatibility

CE Mark  
 FCC Class A  
 CISPR Class A

### Environmental Specifications

Temperature:  
 ■ IEC 68-2-14  
 ■ 0°C to 45°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

Model Name	Description	EAN Code
ES4308-PoE	7 RJ-45 10/100/1000Base-T ports with 1 Combo G (RJ-45/SFP) ports web smart PoE Switch	4712687004238
ES4308-PoE-EU	7 RJ-45 10/100/1000Base-T ports with 1 Combo G (RJ-45/SFP) ports web smart PoE Switch	4712687004245
ES4308-PoE-UK	7 RJ-45 10/100/1000Base-T ports with 1 Combo G (RJ-45/SFP) ports web smart PoE Switch	4712687004252
ES4324	20 RJ-45 10/100/1000Base-T ports with 4 Combo G (RJ-45/SFP) ports web smart Switch	4712687004269
ES4324-EU	20 RJ-45 10/100/1000Base-T ports with 4 Combo G (RJ-45/SFP) ports web smart Switch	4712687004276
ES4324-UK	20 RJ-45 10/100/1000Base-T ports with 4 Combo G (RJ-45/SFP) ports web smart Switch	4712687004283