

# ES4308-PoE

## Web Smart Gigabit Power Over Ethernet Switch



### Product Overview

The Edge-Core web smart Gigabit Ethernet Switch ES4308-PoE is featuring with 7 10/100/1000 Base-T ports plus 1 Gigabit Ethernet combo (RJ-45/SFP) ports. This switch enables Small Office Home Office, Small Medium Business to introduce high performance Gigabit Ethernet network to the desktop with Power Over Ethernet support. Power Devices such as VoIP Phone, Access Point and IP Surveillance camera can be connected to get both power supply and data transmission simultaneously. It is packed with features and is a cost-effective solution that brings continuous availability, QoS. 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

#### Performance and Scalability

ES4308-PoE with 16 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 is one 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. Fully compliance to IEEE 802.3af standard. Port 1 can even support up to 25W for power devices which require high power such as IP surveillance camera etc.

#### High Availability

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.

Storm Control enables user to limit the bandwidth that is allowed for Broadcasts and Multicasts. 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, giving optimal performance to real-time applications such as voice and video.

#### Enhanced Security

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.

#### Simplified Management

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

It's also supports SNMP V1 to be managed and control SNMP network station.

Cable diagnostics for diagnose any cable faults (Short, Open etc..) and feedback a distance to the fault.

LLDP (Link Layer Discovery Protocol) enables administrator to monitor what device is attached to the switch.

#### PoE Features

Transfer data and up to 15.4 Watts power to VoIP phones, Wireless Access Points, IP Surveillance Camera etc, over existing CAT 5 cable to distances of up to 100 meters. Eliminating the need for individual power source and saving costs for power cable and installation.

Works as a centralized power distributor that can auto-detect power devices and power consumptions.

Priorities can be defined on each port to ensure that the ports connected to important devices can still receive the power If the power demand exceeds the maximum power supply.



## Features

Physical Port	Security
7 10/100/1000 BASE-T(RJ-45) Ports 1 Gigabit Combination (RJ-45/SFP)	Supports IEEE 802.1X port-based access control Password-protection on web interface
Performance	Management
Switching Capability: <ul style="list-style-type: none"> <li>16 Gbps</li> </ul> Forwarding Rate: <ul style="list-style-type: none"> <li>11.9 Mpps</li> </ul> MAC Address Table Size: 8K Packet Buffer Size: 144KB	Switch Management: <ul style="list-style-type: none"> <li>Web management</li> <li>SNMP v1agent</li> </ul> Firmware & Configuration: <ul style="list-style-type: none"> <li>Web based software upgrade</li> <li>Web based configuration file up/download</li> <li>Restore to Factory default</li> <li>Dual firmware images</li> </ul> LLDP Cable Diagnostic
L2 Features	SNMP Standards
Auto-negotiation for port speed and duplex mode Flow Control: <ul style="list-style-type: none"> <li>IEEE 802.3x for full duplex mode</li> <li>Back-Pressure for half duplex mode</li> </ul> Spanning Tree Protocol: <ul style="list-style-type: none"> <li>IEEE 802.1D Spanning Tree Protocol (STP)</li> <li>IEEE802.1w Rapid Spanning Tree Protocol (RSTP)</li> <li>Auto Edge Port</li> </ul> VLANs: <ul style="list-style-type: none"> <li>Supports 64 VLAN groups</li> <li>IEEE 802.1Q VLANs</li> <li>Port-based VLANs</li> </ul> Link Aggregation: <ul style="list-style-type: none"> <li>Static Trunk</li> <li>IEEE 802.3ad Link Aggregation Control Protocol</li> <li>Trunk groups: 4, Trunk links: 2-8</li> </ul> Storm Control: <ul style="list-style-type: none"> <li>Broadcast</li> </ul> Supports jumbo frames up to 9.6KB Port Mirroring: One to One, Many to One	<ul style="list-style-type: none"> <li>RFC1493 Bridge MIB</li> <li>RFC2737 Entity MIB</li> <li>RFC2742 SNMP Agent MIB</li> <li>RFC2233 Interface Group MIB</li> <li>RFC1213 MIB II</li> <li>RFC2621 Radius Authentication Client MIB</li> <li>RFC3584 SNMP Community MIB</li> <li>RFC2011 SNMPv2 IP MIB</li> <li>RFC2012 TCP MIB</li> <li>RFC1215 Trap</li> <li>RFC2013 UDP MIB</li> <li>RFC2131 DHCP Client</li> <li>RFC2618 RADIUS</li> <li>RFC1901 SNMPv2</li> <li>Private MBI</li> </ul>
QoS Features	IEEE Standards
Priority Queues: 4 hardware queues per port Traffic classification : <ul style="list-style-type: none"> <li>Based on IEEE 802.1p</li> <li>DSCP</li> </ul> Scheduling: <ul style="list-style-type: none"> <li>WRR</li> <li>Strict Priority</li> </ul> Bandwidth Control: <ul style="list-style-type: none"> <li>Egress/Ingress rate limiting</li> </ul>	<ul style="list-style-type: none"> <li>IEEE 802.1D Bridging</li> <li>IEEE 802.1w Rapid Spanning Tree Protocol</li> <li>IEEE 802.1Q VLAN</li> <li>IEEE 802.1p Priority Tags</li> <li>IEEE 802.1x Port Authentication</li> <li>IEEE 802.3ac VLAN Tagging</li> <li>IEEE 802.3x Flow Control</li> <li>IEEE 802.3-2005 Ethernet, Fast Ethernet, Gigabit Ethernet Link Aggregation Control Protocol Full-duplex flow control</li> </ul>

## 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
ET4201-SX	Small Form Factor Pluggable (Distance: 500m; Wavelength: 850nm)	
ET4201-LX	Small Form Factor Pluggable (Distance: 10km; Wavelength: 1310nm)	

# ES4308-PoE/ES4324 Product Specifications



## Features

### Mechanical

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

### 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

Three years warranty

### Electrical

- Power Consumption :  
165W maximum (full PoE load)
- Power characteristics:
- Voltage: 100-240V
  - Frequency: 50-60Hz
  - 1.5 A
- Current:
- 0.75 A @ 110 VAC
  - 1.5 A @ 220 VAC
- Power Over Ethernet:
- Input Voltage:
- 48 V DC
- Maximum output power 70 W:
- 15.4 W for any four ports simultaneously port 1 can provide 25 W
- Maximum output current per port:
- 350mA DC
  - Port 1 can reach: 565mA DC
  - Output Voltage: 44 – 57 V DC
- Maximum output current per port:
- 350mA DC

\*Future Release

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