

## PoE Switch Solution

# E5303A-24P



## System Overview

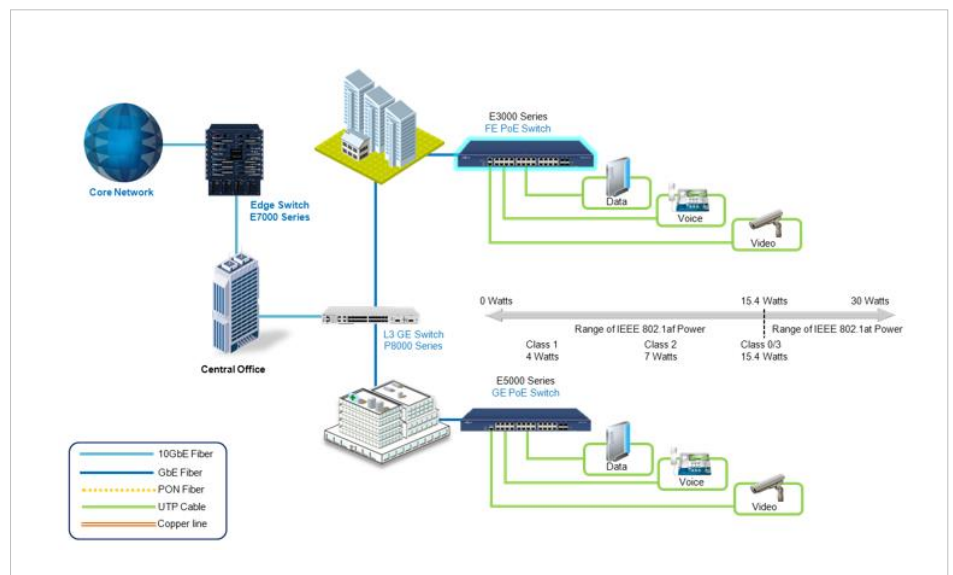
E5303A-24P is a Layer2 Gigabit Ethernet workgroup PoE (Power over Ethernet) switch that passes power and data on Ethernet cabling so that there is no need to supply electrical power to network equipment for PD enabled devices such as wireless AP, CCTV, VoIP Phone etc... PoE provides flexibility on installation space of such network equipment, and significantly reduces the installation cost. Its efficient network structure is especially useful for networks such as IP Surveillance Network, Wireless LAN Network and Train Rail/Expressway network.

Suitable for direct connection to a WiFi AP, IP surveillance terminal, transportation network terminal, it provides high performance switching service with electrical power through Ethernet cable (CAT 5e), which can be implemented economically based upon 1000Mbps link speed.

E5303A-24P can have up to twenty-four PoE embedded (PSE, IEEE802.3af for 24 port/IEEE802.3at for 12 port) fixed 10/100/1000base-TX (UTP RJ-45) ports and four 1000Base-X SFP uplink interfaces. As a use of PON ONU, GPON or EPON SFP stick is applicable into SFP uplink interface. All ports of E5303A-24P switch support full duplex communication, allowing both directions of traffic to flow at the same time, so the link bandwidth extension is actually doubled.

E5303A-24P supports hardware-based bandwidth management, and Quality of Service functionality, which enable corporate users and ISPs to provide differentiated internet services in the environment of broadband building or facility network.

## Deployment Diagram



## Features

- 24 ports 10/100/1000Base-TX with PoE
  - 24 PoE ports based on IEEE802.3af
  - 12 PoE ports based on IEEE802.3at
- 2 Optional Modules(Hot-Swappable)
  - 100Base-FX, 1000Base-Tx, 1000Base-X
- Uplink Module
  - 4 port 1000Base-X (SFP) interface
- Max. 318.5W
- 128MB Main Memory
- 64MB Flash Memory
- 16K MAC Address Support
- 4K VLANs Support

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# Specification

## HW Specification

### System Architecture & Console

- 24 fixed 10/100/1000Base-TX ports with POE embedded(PSE) & 4 fixed 1000Base-X uplink port
- Auto-negotiation, Auto-Sensing, Auto MDI/MDIX
- RS-232C Serial Console Port (RJ-45 type)

### PoE

- 24 ports PoE PSE
  - Max 24 port support with IEEE 802.3af (15.4W)
  - Max 12 port support with IEEE 802.3at (30W)

### Memory

- 128MB Main Memory
- 64MB Flash Memory

### Physical Dimension

- 19" Rack Mount Type, 1RU
- 44mm(H) x 437(W) x 360mm(D)

## Environment Condition

### Power

- 110 ~ 220 VAC / 50~60 Hz

### Power consumption

- Max. 318.5W (60W when PSE is not used)

### Operating Temperature

- -10°C ~ 60°C

### Storage Temperature

- -20°C ~ 70°C

## Performance

### Switch Fabric Performance

- 56 Gbps non-blocking

### Throughput

- 41.6 Mpps

### IPv6

- H/W based supported

## Capacity

### MAC Address

- Up to 16K MAC Management

### VLAN

- Up to 4K VLAN (VLAN ID range 1~4094)
- Private Edge VLAN, 8021.Q Tagged-VLAN
- Link Aggregation (802.3ad): 13 group, Max 8 port/group

## Services and features

### Filtering, Security & QoS

- IEEE 802.1p QoS, Diff-serv support, Congestion Management
- Filtering: Mac address, Mac address Count limit, Netbios, NBT, TCP Sync cookies, TCP RST-UNKNOWN, Martian-Filter, DHCP, Broadcast Storm, selective handling of specified IP address, IP Packet filtering, detection of IP address collision Virus Filtering: DoS prevention, Warm virus Filtering
- Subscriber Traffic control by ACLs
- Queue: 8, SPQ, WRR, SPQ+WFO
- Service differentiation for Control Packet (Ping, Telnet, SNMP, FTP, TFTP, etc)

### Management

- SNMP v1/v2, RMON, MIB-I/II, log flash, Subscriber (Block/unblock),
- Last MAC Management, Remote S/W Upgrade, Telnet, TFTP, FTP, Port Mirroring, CLI, Syslog, Access level control for administrator
- Radius, TACAS+

### Functions

- STP(802.1D), RSTP(802.1w), Self-Loop controlled
- DHCP relay/DHCP snooping, DHCP option 82
- Storm-control (L2DLF, Broadcast, Multicast),
- Flood-Guard (pps control), CPU Filter(IP+TCP/UDP PORT NO)
- NTP (Network Time protocol) Client
- Jumbo Frame packet support: 9022byte
- Stacking & IP Clustering : 8 Clustering

### Multicasting Protocol

- IGMP v2.0, IGMP snooping, 255 snoop Table, IGMP query, IGMP Report Suppression, IGMP Static Join

### Bandwidth Management

- Hardware-based Rate Limiting
- Rate Limiting : 1Mbps per Ethernet port
- Rate Limiting : 1Mbps per Gigabit port
- Egress Traffic Shaping per Port
- Ingress Traffic Policing per Flow/Packet
- Hardware Based Symmetric & Asymmetric Rate Limiting

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