

PoE Switch Solution

E5300B-08P



System Overview

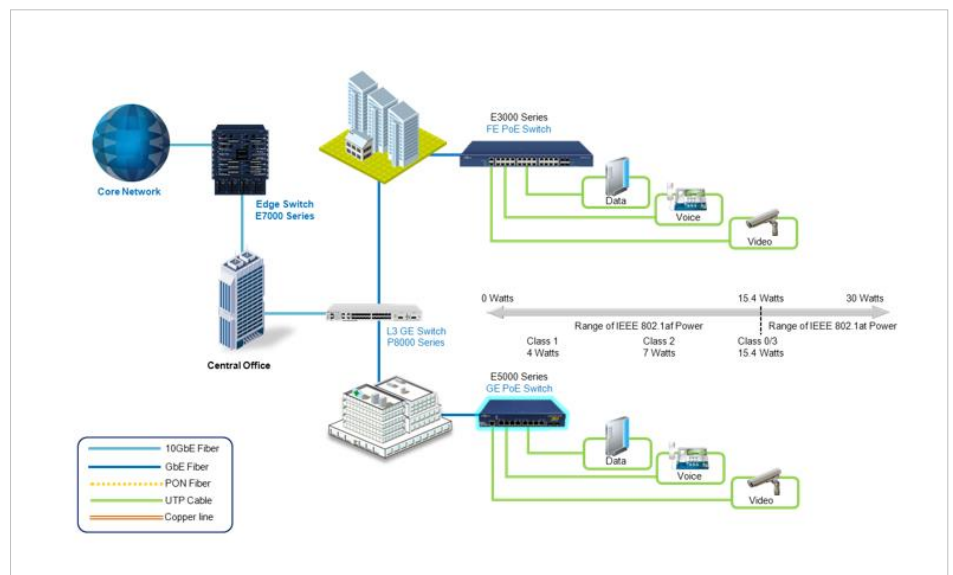
E5300B-8P is a Layer2 Gigabit Ethernet workgroup PoE (Power over Ethernet) switch that passes power and data on Ethernet cabling so that there is no need to supply electrical power to network equipment for PD enabled devices such as wireless AP, CCTV, VoIP Phone etc... PoE provides flexibility on installation 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.

E5300B-8P can have up to eight PoE embedded (PSE, IEEE802.3af/at) fixed 10/100/1000base-TX (UTP RJ-45) ports and two 1000Base-X SFP uplink interfaces. Through 125W power supply module, E5300B-8P switch supplies 30W power(802.3at) on 4 ports or 15W power(802.3af) on 8 ports. As a use of PON ONU, GPON or EPON SFP stick is applicable into SFP uplink interface. All ports of E5300B-8P switch support full duplex communication, allowing both directions of traffic to flow at the same time, so the link bandwidth extension is actually doubled.

E5300B-8P 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

- 8 ports 10/100/1000Base-Tx (Fixed) & PoE(PSE, IEEE 802.3af/30W per Port)
- 2 Port SFP
- Power: 110~220 VAC / 50~60 Hz
- 20 Gbps Non-Blocking Switch Fabric
- 15 Mpps Throughput
- 256MB Main Memory
- 64MB Flash Memory
- 43.6mm(H) x 253mm(W) x 192mm(D)
- Max. 16K MAC Address Support
- 256 VLANs Support

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Specification

HW Specification

System Architecture & Console

- 8 fixed 10/100/1000Base-Tx ports & PoE
- 2 Port SFP(1000Base-X)
- Auto-negotiation, Auto-Sensing, Auto MDI/MDIX
- RS-232C Serial Console Port (RJ-45 type)

PoE

- 8 ports PoE PSE
 - Max 8 port support with IEEE 802.3af (15.4W)
 - Max 4 port support with IEEE 802.3at (30W)

Memory

- 256MB Main Memory
- 64MB Flash Memory

Physical Dimension

- 19" Rack Mount Type, 1RU
- 43.6mm(H) x 253mm(W) x 192mm(D)

Environment Condition

Power

- 110~220 VAC / 50~60 Hz

Power consumption

- Max. 150W (15W when PSE is not used)

Operating Temperature

- -10°C~ 50°C

Storage Temperature

- -20°C~ 70°C

Performance

Switch Fabric Performance

- 20 Gbps non-blocking

Throughput

- 15 Mpps

IPv6

- H/W based supported

Capacity

MAC Address

- Up to 16K MAC Management

VLAN

- 256 VLAN
- Private Edge VLAN, 8021.Q Tagged-VLAN
- Link Aggregation : 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 Join/Leave Suppression, IGMP Fast Leave, IGMP Static Join, IGMP proxy reporting

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