AP ESG 2536PP

36 port 10 Gigabit Managed POE Switch

- Support 24 Gigabit PoE Ports + 8 Gigabit optical ports (optical and electrical multiplexing) + 4 10G optical ports + 1 management port.

- Supports IEEE802.3 / IEEE802.3i / IEEE802.3uIEEE802.3ab / IEEE802.3z, IEEE802.3af / at, store and forward.

- Compatible with IEEE802.3at (30W) and IEEE802.3af (15.4w).

- Ethernet port supports 10/100/1000M adaptive and POE functions.

- Flow control mode: Full-duplex adopts IEEE 802.3x standard, half-duplex adopts Back pressure standard.

- Support port auto flip (Auto MDI / MDIX).

- Adopt the switch mechanism of store and forward.

- All ports support wire-speed switching and support jumbo frame transmission.

- Zero configuration feature, automatically supplied to adaptive equipment Panel indicator monitors working status and helps failure analysis.

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OVERVIEW

AP-ESG2536PP- 36Ports Gigabit managed POE switch, using 10/100/1000Mbps&10G industrial Ethernet optical switch motherboard, based on BCM high-quality industrial-grade chip, users can choose any hybrid configuration of optical ports. The modular design of optical fiber access provides 24 10/100/1000 adaptive electrical ports POE+, 8 multiplexed Gigabit SFP optical ports / electrical ports, 4 integrated 10G optical ports, provide sufficient bandwidth for aggregation and core data exchange; provide High-capacity switching capabilities, supporting Layer 3 ACL functions.

Improved security control strategy and CPU protect policy improve fault tolerance, ensure stable network operation and load balancing of links; the device supports automatic DoS attack prevention and SNMP, IEEE 802.1D, spanning tree and rapid spanning tree protocols, Link aggregation and other functions.

With simple and convenient installation and maintenance methods and rich business features, it helps users to build a safe and reliable high-performance network. It is mainly positioned at the core or convergence layer of user networks such as industrial parks, buildings, factories and mines, government agencies, and residential broadband; it can be widely used in Ethernet access scenarios such as small and medium-sized enterprises, Internet cafes, hotels, and schools.

APPLICATION ENVIRONMENT

- Metropolitan Optical Fiber Broadband Network: telecommunications, cable television, network system integration, etc., according to network operators.
- Broadband private network: suitable for private networks in the financial, government, petroleum, railway, electric power, public security, transportation, education and other industries.
- Multimedia transmission: integrated transmission of images, voice, and data, suitable for applications such as distance learning, conference television, videophone, etc.
- Real-time monitoring: Simultaneous transmission of real-time control signals, images and data.

TECHNICAL SPECIFICATIONS

Hardware	
Product name	36-port 10 Gigabit L3 Managed POE Switch
Model No.	AP-ESG2536PP
Port	24 Gigabit POE ports + 8 Gigabit optical ports (combo) + 4 10G optical ports + 1 Console port
Network protocol	IEEE802.3AF（PoE） IEEE802.3AT（PoE+） IEEE 802.3,10Base-T IEEE 802.3u IEEE 802.3ab IEEE 802.3ae IEEE 802.3x IEEE 802.3ad IEEE 802.1ab-2005, LLDP IEEE 802.w IEEE 802.1q IEEE 802.1p, QoS/CoS IGMP Snooping DHCP Snooping /GMRP
POE parameters	PoE Standard: IEEE802.3af /IEEE802.3at Single Port Max：15.4 W (IEEE 802.3af) Single Port Max：30 W (IEEE 802.3at) PoE compatibility: 802.3af/at Adaptive POE Port Output Voltage: DC48-55V POE pin: ½+ ; 3/6-
Network transmission medium	10BASE-T: Cat 3, 4, 5UTP(≤100 米) 100BASE-TX: Cat5 or better UTP (≤100 米) 1000BASE-TX: Cat5 or better UTP (≤100 米)
Fiber	Multimode fiber：850nm, 1310nm distance：550m/2Km Single mode fiber: 1310nm, 1550nm distance：20/40/60/80/100/120Km
LED	**PWR** — Steady on: The device is powered on / Off: The device is not powered on **SYN** — Blinking: The system is operating normally / Off: The system is not running **POE** — Steady on: Power supply is normal / Off: Abnormal power supply **LINK** — Steady on: The link is normal. / Off: The link is down. **ACT** — Steady on: No data transmission / Blinking: data transfer / Off: The link is down.
Power Supply	Input: AC 100-240V; outputDC52V7.69A Total Power：400W
Dimension	Product(L×W×H)：440mm*360mm*45mm Packing(L×W×H)：570mm*450mm*90mm Product weight：3.63kg Packing weight：4.39kg
Working environment	Working temperature：-20~50°C Storage temperature：-40~85°C Working humidity: Relative humidity 90%，Non-condensing Storage humidity: 95% maximum relative humidity, non-condensing Operating altitude: up to 10,000 feet (3,000 meters) Storage altitude: up to 10,000 feet (3,000 meters)
Certification	CE, FCC, ROHS, CCC
MTBF	300,000
Packing list	1. Switch: 1 2. Instruction: 1PCS 3. Qualification certificate and warranty card: 1PCS 4. Serial line: 1 5. Power cord: 1 6. Hanging ears: a pair 7. User CD: 1

TECHNICAL SPECIFICATIONS

Technical Index	
Bandwidth	128Gbps
Packet forwarding rate	96Mpps
Processor	ARM® Cortex™-A9
Flash capacity	16MB
Memory Capacity	1G
MAC table	16K
Buffering	64MB
Remote upgrade	Support version upgrade via web, support local version upgrade

Layer 2 Software Functions	
Port management	Enable / disable port speed, duplex, MTU setting Flow-control setting View port information
Port mirroring	Support port in / out direction, VLan mirroring
Port speed limit	Support port speed limit, the speed limit granularity is determined by the chip
Port isolation	Support port isolation setting
Storm suppression	Support unknown unicast, unknown multicast, broadcast storm suppression
Link aggregation	Support static manual aggregation Support LACP dynamic aggregation
VLAN	Access Trunk Hybrid Support port, protocol, MAC-based VLAN division Support GVRP dynamic VLAN registration Voice VLAN
MAC	Support static addition and deletion Limit on the number of MAC addresses learned Supports dynamic aging time setting
Spanning tree	802.1d (STP) 802.1w (RSTP) 802.1s (MSTP)
IGMP-snooping	Support static addition and deletion

Layer 3 software and routing functions	
Interface configuration	Support SVI port
ARP	Supports static ARP Support setting ARP aging time
VRRP	Support VRRP route backup
ND	Support IPv6_ND configuration
Routing function	Static routing RIP（V1/V2）/ OSPF(V2) / BGP RIP / OSPF / BGP supports route authentication RIP / OSPF / BGP supports route import and filtering functions

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TECHNICAL SPECIFICATIONS

Extensions	
ACL	Based on source MAC, destination MAC, protocol type, source IP, destination IP, L4 port number Support time-range time period management
QOS	Based on 802.1p (COS) classification Classification based on DSCP Source-based,Port based Classification based on source IP, destination IP, and port number Support traffic rate limiting CAR
LLDP	Support LLDP link discovery protocol
User settings	Add / remove users
Log	User login, operation, status, event log
Anti-attack	DOS defense Support CPU protection and limit CPU packet rate ARP binding (IP, MAC, PORT binding)
Network diagnostics	Support ping, telnet, trace
System Management	Device reset, configuration save / restore, upgrade management, time setting, etc.

Management functions	
CLI	Support serial command line management
TELNET	Support telnet remote management
WEB	Supports two-level settings, two-level and three-level viewing

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