

Multiservice 10GE Switches (w POE)

AS2400 Series

- Supports up to 48 × GE TX ports and 6 × 10 GE SFP+ uplink ports
- Advanced hardware architecture and industry-leading port density
- Carrier-level reliability and QoS policies
- Layer-3 routing functions
- Versatile IPv6 solutions
- Perfect security mechanisms



ACT AS2400 series Optical Fiber 10GE Switch is next-generation, high-performance, aggregation 10GE L3-lite switch which provide network operators and service providers with a cost-effective access layer for Fast Ethernet P2P services in Fiber to The Home/Business (FTTH & FTTB) networks.

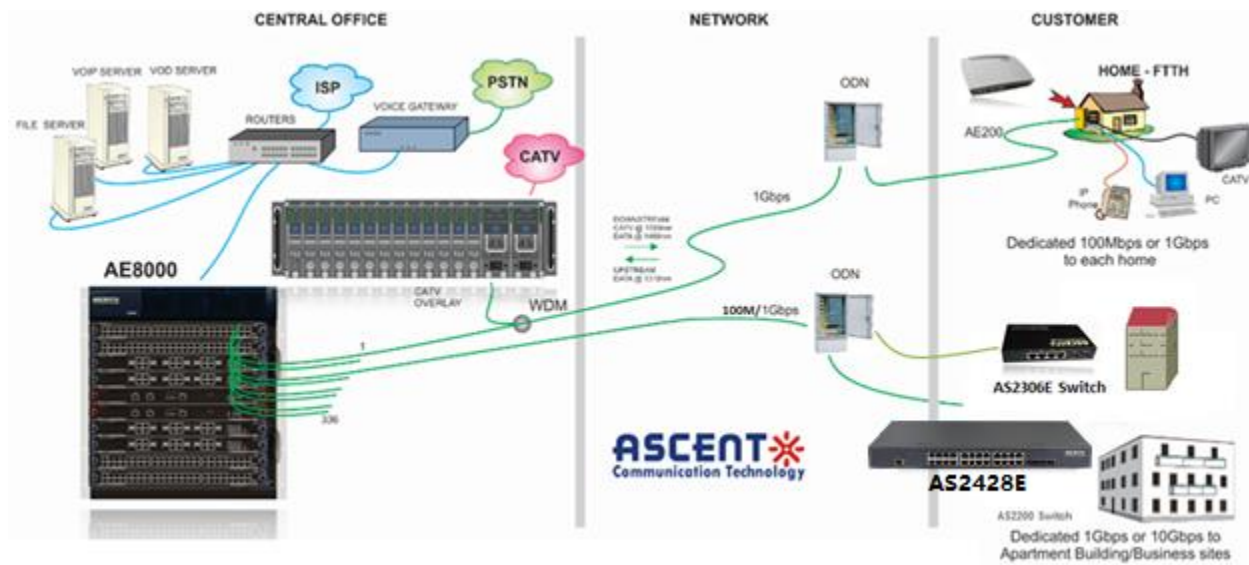
AS2400 series includes standard non-POE and POE version with 5 basic models: AS2428E, AS2424S, AS2424E-POE, AS2448S and AS2448E-POE. The platform provides high-density ports with flexible configuration options and a user-friendly interface to allow operators to quickly and easily expand their existing networks and services.

AS2400 series offers compatibility with all existing Fast Ethernet or Gigabit Ethernet devices in the network. It provides high-performance switching and seamless cooperation with ACT routing and switching products. Combined with ACT's Video Overlay package, the AS2400 can provide the perfect end-to-end FTTX solution in offering advanced video, voice, and data services.

Key Features

- Industrial Ethernet ring with zero delay and zero packet loss
- Supports industry-level EAPS
- Supports telecom-level Ethernet ring protection protocol
- <50 ms protection shift time
- Supports In-Service Software Upgrade (ISSU)
- Supports various L2 multicast functions, including IGMP-snooping, fast-leave, and trans-VLAN multicast copy
- Supports management modes such as console port, Telnet, SSH, etc.
- Supports SNMP and WEB management mode
- Supports priority retagging and complicated flow classification based on VLAN, MAC, source address, destination address, IP, or priority to better streamline carrier services
- Supports 8 priority queues per port
- Supports IPv6 protocol suite, IPv6 neighbor discovery, ICMPv6, path MTU discovery, etc.
- Equipment-level security
- Supports IEEE802.1x, Radius, and TACACS+ security authentication
- Supports storm/multicast/unicast limit

Application Diagram



Specifications

Item	AS2428E	AS2424S	AS2424E-4T-AC-POE	AS2448E	AS2448E-4T-AC-POE
Interface	24 × GE TX 4 × 10GE/GE SFP+	16 × 100/1000M SFP 8 × 100/1000M SFP/TX combo 4 × 10GE/GE SFP+	24 × GE POE ports 4 × 10GE/GE SFP+ ports	48 × GE TX 6 × 10GE/GE SFP+	48 × GE POE ports 6 × 10GE/GE SFP+ ports
Console (RJ45)	1	1	1	1	1
Backplane (Gbps)	128	128	128	216	216
Forwarding Rate (Mpps)	96	96	96	162	162
Chassis					
Dimensions (W×D×H) (mm)	440 × 180 × 44	440 × 280 × 44	440 × 210 × 44	440 × 280 × 44	440 × 300 × 44
Weight (kg) (Empty)	2.6	4	3	4.3	5.2
Package					
Dimensions (W×D×H) (mm)	500 × 320 × 80	576 × 448 × 94	555 × 295 × 88	576 × 448 × 94	576 × 448 × 94
Weight (kg)	3.9	5.2	4.1	5.5	6.1
Power Consumption					
No-Load	<22 W	<18 W	<25 W	<25 W	<25 W
Full-Load	35 W	<38 W	<408 W	<48 W	<48 W (without POE)
Power Supply¹	45 W	45 W	410 W	50 W	450 W AC and 800 W DC
POE Power Budget	/	/	370 W	/	370 W AC or 740 W DC
Total Output BTU²	153.58	153.58	1392.49	163.82	1535.84 @ AC, 2730.38 @ DC
Fan Number	/	2	2	2	2
Noise³ (dBA)	0	45	37.5	45	45
MTBF (H)	>200,000	>200,000	>200,000	>200,000	>200,000
Forwarding Mode	Store-forward	Store-forward	Store-forward	Store-forward	Store-forward
Flash (MB)	16	16	16	16	16
DRAM (MB)	256	256	256	512	512
MAC	16K	16K	16K	16K	16K
Buffer Size (MB)	1.5	1.5	1.5	1.5	1.5
Interface VLAN	64	64	64	64	64
Routing Table	512	512	512	512	512
Jumbo Frame	9K	9K	9K	9K	9K

Notes:

1. Power supply: 100 V_{AC} to 240 V_{AC}, 50 Hz ± 10 % or 36 V_{DC} to 72 V_{DC}
2. 1000 BTU/H = 293 W
3. Noise @ +25 °C

Features

item	Description
VLAN	4K Active VLAN, QinQ & Selective QinQ, GVRP, Private VLAN, Voice-VLAN
Spanning Tree	802.1D (STP), 802.1W (RSTP) and 802.1S (MSTP) BPDU guard, root guard and loopback guard
Multicast	IGMP v1/v2/v3, IGMP Snooping, IGMP Fast Leave, MVR, IGMP filter
IP	Static route, RIP, OSPF IPv4/v6 dual stack
IPv6	ICMPv6, DHCPv6, ACLv6 and IPv6 Telnet IPv6 neighbor discovery, Path MTU discovery MLD v1/2, MLD snooping
Certification	CE, FCC, ROHS
QoS	CAR, HQoS, MAC/IP/TCP/UDP/VLAN/ COS/ DSCP/ TOS based QoS, 802.1P/ DSCP priority re-labeling, SP, WRR, and "SP+WRR", Tail-Drop, WRED, flow monitoring and traffic shaping
Security	Port isolation, Port security, and "IP+MAC+port" binding, MAC sticky DA, PPPoE+, IEEE 802.1x, Radius and TACACS+ L2/L3/L4 ACL flow identification and filtration Anti-attack from DDoS, TCP's SYN Flood, UDP Flood, etc. Broadcast/multicast/unknown unicast storm-control MD5, SHA-256, RSA-1024, AES256, etc.
DHCP	DHCP server/relay/client DHCP snooping/option82
Reliability	Static/LACP link aggregation, Interface backup EAPS and ERPS ISSU uninterrupted system upgrade BVSS, up to 16-units per stack VRRP UDLD
Management	Console, Telnet, SSH v1/2, HTTP, HTTPS, SNMP v1/v2/v3, RMON TFTP, FTP, SFTP NTP ZTP SPAN, RSPAN Dying gasp*
Environment	Operating temperature: 0 °C to +50 °C Operating humidity: 10 % to 90 % RH (non-condensing) Storage temperature: -20 °C to +70 °C Storage humidity: 5 % to 95 % RH (non-condensing)
Accessories	Power cord, rackmount kits, console cable

Ordering Information

Product Name	Product Description
AS2428E-4T-AC	AS2400 Ethernet switch with 24 Gigabit TX ports, 4 10G SFP ports, one AC220V power supply (dual slots), 1U, 19-inch rack-mounted installation
AS2424S-4T-AC	AS2400 Ethernet switch with 24 GE SFP and 4 10GE ports (1 console port, 16 100M/1000M SFP ports, 8 100M/1000M SFP/TX combo ports, 4 10GE/GE SFP+ ports; one AC 220V power supply with dual slots, the cooling fan, 1U, standard 19-inch rack-mounted installation)
AS2424S-4T-DC	AS2400 Ethernet switch with 24 GE SFP and 4 10GE ports (1 console port, 16 100M/1000M SFP ports, 8 100M/1000M SFP/TX combo ports, 4 10GE/GE SFP+ ports; one DC 48V power supply with dual slots, the cooling fan, 1U, standard 19-inch rack-mounted installation)
AS2424E-4T-AC-POE	Ethernet switch with 24 GE POE ports and 4 10GE ports (1 console port, 24 GE POE ports, 4 10GE/GE SFP+ ports; 1 AC220V and 1 DC power supply, AC 370W POE power, or DC 740W POE power, the cooling fan, 1U, standard 19-inch rack-mounted installation)
AS2448E-6T-AC	AS2400 Ethernet switch with 48 GE and 6 10GE/GE SFP+ ports (1 console port, 48 GE TX ports, 6 10GE/GE SFP+ ports, 100 to 240 VAC input, cooling fan, 1U, standard 19-inch rack-mounted installation)
AS2448E-6T-AC-POE	AS2400 Ethernet switch with 48 GE POE ports and 6 10GE ports (1 console port, 48 GE POE ports, 6 10GE/GE SFP+ ports; 1 AC220V and 1 DC power supply, AC 370W POE power, or DC 740W POE power, the cooling fan, 1U, standard 19-inch rack-mounted installation)

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