

Multiservice Gigabit Ethernet Switch (w POE)

AS2300 Series

- IEEE802.3, 802.3u
- L2 multiservice gigabit Ethernet switch
- Optical fiber uplink
- 8/16/24/48 GE TX or SFP
- Port based VLAN
- Optional POE
- Supports flow control
- Congestion-free switching for all ports
- Auto-negotiable UTP
- Up to 80 km Distance
- SNMP web management



ACT AS2300 series Optical Fiber Gigabit Ethernet Switch is a new generation, intelligent and high-performance L2 switches 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.

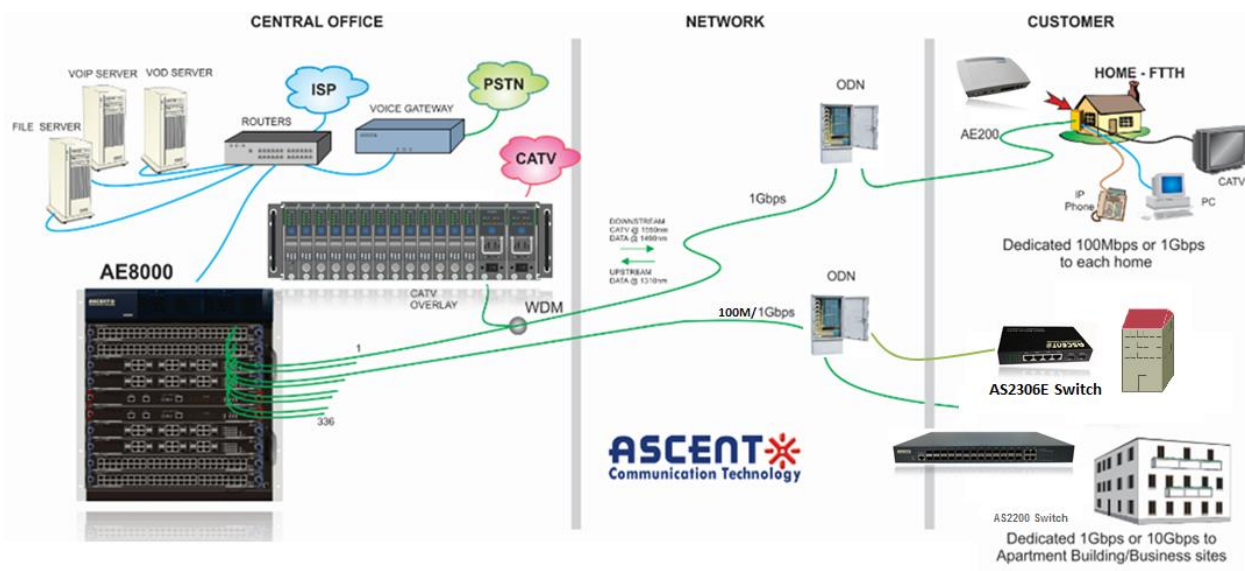
AS2300 series includes standard non-POE and POE versions with two base models each: AS2308, AS2324, AS2308-POE, AS2324-POE,. The platform provides high-density ports with flexible configuration options and a user-friendly interface to allow operators to quickly and easily expand their existing networks and services.

AS2300 series is designed for carrier's IP MAN and enterprise networks. Based on the latest hardware and BDROS platform, it supports functions such as ACL, QinQ and QoS. It's simple management mode and flexible installation can meet the requirement of any complicated scenarios. AS2300 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 AS2300 can provide the perfect end-to-end FTTX solution in offering advanced video, voice, and data services.

Key Features

- Complies with IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX, and 100Base-FX Fast Ethernet
- High-performance L2 switching
- 8/16/24/48 10/100M/1000M auto-negotiable UTP ports and 2 × 1000 Mbps SFP ports
- Supports Active Ethernet technology with Fast Ethernet subscriber lines
- UTP port supports MDI/MDI-X auto crossover
- Up to 256 Gbps backboard bandwidth, uncongested design, and full wire-speed forwarding
- POE supports two power supply modes: 802.3at (30W) and 802.3af (15.4W)
- POE supports auto-check up to intelligently and cost-efficiently identify the power consumption required by PD
- Intuitive front panel LED indicator
- Low power consumption to save on maintenance and services costs
- SNMP remote web management

Application Diagram



Specifications

AS2300	Optical Fiber Ethernet Switch	
Storage	64 MB	
Flash	8 MB	
Switching Mode	Store forwarding	
MAC Address Table	8K	
VLAN	4K	
Queue Buffer	64MB	
Shelf Manager	SNMP (Simple Network Management Protocol), CLI (Command Line Interface)	
Power	110 V AC to 240 V AC, 50 ± 10 Hz -36 V to -72 V (POE switch does not support DC power supply)	
Operating Temperature	0 to +50 °C (optimal performance 15 °C to 35 °C)	
Storage Temperature	-20 °C to +70 °C	
Operating Humidity	5 % to 95 % (non-condensing)	
Storage Humidity	10 % to 90 % RH (non-condensing)	
Weight	5.5 kg	
	AS2308E-2S-AC	AS2308E-2S-AC-POE
10/100/1000 Base-T Ports (TX)	8	8
1000Base-X Ports (1G SFP)	2	2
Combo TX/SFP 1G Ports	n/a	n/a
Backplane Switching Capacity	20 Gbps	20 Gbps
Packet Forwarding Rate	15 Mpps	15 Mpps
Dimensions (mm) (W×D×H)	280×180×44	280×179×45
Power Consumption	<10 W	<142.5 W (PS 150W)
	AS2324E-4S-AC	AS2324E-4S-AC-POE
10/100/1000 Base-T Ports (TX)	24	24
1000Base-X Ports (1G SFP)	4	n/a
Combo TX/SFP 1G Ports	n/a	4
Backplane Switching Capacity	56 Gbps	56 Gbps
Packet Forwarding Rate	42 Mpps	42 Mpps
Dimensions (mm) (W×D×H)	440×210×44	440×210×44
Power Consumption	<25 W	<393.5 W (PS 400W)

Switching and Routing Features

MAC Switching Function	Static configuration and dynamically learning of MAC address Check and delete MAC address Configuring of MAC address aging time Limit on MAC address learning number MAC address filtering function
VLAN	4K VLAN entries, GVRP 1:1 and N:1 VLAN Mapping QinQ, Private VLAN, Configurable VLAN
STP	802.1D (STP), 802.1W (RSTP), 802.1S (MSTP) BPDU protection, root protection and ring protection
Multicast	IGMP v1/v2/v3, IGMP Snooping, IGMP Fast Leave Multicast group policy and multicast number limit Multicast traffic cross VLAN duplication
IPv4	Static routing, RIP v1/v2, OSPF and BGP (only limit to S2528C, S2528GX and S2528P)
IPv6	ICMPv6, DHCPv6 and IPv6 Telnet IPv6 Neighbor Discovery MLD v1/v2 MLD Snooping
QoS	Traffic classification of each field of L2/L3/L4 protocol headers CAR traffic control 802.1P/DSCP priority remark Multiple queuing algorithms such as SP, WRR or SP+WRR Tail-Drop, WRED Traffic supervision and traffic shaping
Security Features	Identification and filtering of L2/L3/L4 based ACL Defend against DOS or TCP attacks Suppression of broadcast, multicast and unknown unicast packet Port isolation Port security, IP+MAC+port binding DHCP Snooping, DHCP Option 82 IEEE 802.1x certification Radius and BDTacacs+ Command line authority control based on user levels
Reliability	Static/LACP link aggregation EAPS and ERPS ISSU
Management and Maintenance	Console, Telnet, SSH 2.0 Support telnet/ssh/webGUI and SNMP v1/v2/v3 Upload and download of TFTP files RMON Support Dying Gasp feature

Ordering Information

AS2300 Series Switch

AS2308E-2S-AC	Enhanced Gigabit management switch, 8 ports 10/100/1000M TX + 2 ports Gigabit SFP, AC220V power supply
AS2324E-4S-AC	Ethernet switch with 24 gigabit TX ports and 4 gigabit optical ports, AC220V power supply
AS2308E-2S-AC-POE	Enhanced Gigabit management PoE switch, 8 GE PoE ports, 2 100/1000M SFP ports, 1 standard AC220V power supply, 150W
AS2324E-4S-AC-POE	Enhanced Gigabit PoE management switch, 24 ports 10/100/1000M PoE TX + 4 GE TX/SFP combo ports, 1 standard AC220V power supply, 400W

AS2300 Series SFP/XFP Modules

SFP-AF-LP-4931	SFP Plug-in, 100Mbps, 20km, TX=1490nm, RX=1310nm, LC/PC blue
SFP-AF-SP-4931	SFP Plug-in, 100Mbps, 20km, TX=1490nm, RX=1310nm, SC/PC Blue
SFP-AG-LP-4931	SFP Plug-in, 1Gbps, 20km, TX=1490nm, RX=1310nm, LC/PC Blue
SFP-AG-SP-4931	SFP Plug-in, 1Gbps, 20km, TX=1490nm, RX=1310nm, SC/PC Blue
SFP-AG-CO-04	SFP Plug-in, 10/100/1000 Base T Copper, 1.25Gbps, 2km, Auto Negotiation, RJ45
SFP-AG-CO-01	SFP Plug-in transceiver, Fixed 1000 Base T Copper, 1.25Gbps, 2km, RJ45

Contact Information



Ascent Communication Technology Ltd

AUSTRALIA

140 William Street, Melbourne
Victoria 3000, AUSTRALIA
Phone: +61-3-8691 2902

CHINA

Unit 1933, 600 Luban Road
200023, Shanghai CHINA
Phone: +86-21-60232616

EUROPE

Pfarrer-Bensheimer-Strasse 7a
55129 Mainz, GERMANY
Phone: +49 (0) 6136 926 3246

HONG KONG SAR

Unit 9, 12th Floor, Wing Tuck Commercial Centre
177 Wing Lok Street, Sheung Wan, HONG KONG
Phone: +852-2851 4722

USA

2710 Thomes Ave
Cheyenne, WY 82001, USA
Phone: +1-203 816 5188

VIETNAM

15 /F TTC Building, Duy Tan Street
Cau Giay Dist., Hanoi, VIETNAM
Phone: +84 243 795 5917

WEB: www.ascentcomtec.com

EMAIL: sales@ascentcomtec.com

Specifications and product availability are subject to change without notice.
Copyright © 2021 Ascent Communication Technology Limited. All rights reserved.
Ver. ACT_AS2300_Series_Datasheet_V1n_Nov_2021