

LAYER 2 Gigabit with SFP+ Network Switch ASP2 Series ASP2-24OOS4 / ASP2-48OOS6

OVERVIEW

Angustos ASP2 Series is Layer 3 Lite with Full-gigabit and 10G+ network switch series for medium to large size Data network distribution. Designed for Carrier, Data Center and Enterprise centralized networks that required stability and durability.

Supports functions such as powerful ACL, flexible QinQ, 1:1 or N:1 VLAN switching, Ethernet OAM, carrier-level QoS and industry-level IOGE Ether-ring, ensuring this switch series meets application requirements in all kinds of complicated sites. It also supports layer-3 routing protocol.

PRODUCT FEATURES

Industrial Ethernet Ring with Zero Delay and Zero Packet Loss

- Industry-level EAPS, less than 50ms
- Null packet loss

Telecom-Level Ethernet Switch

- Telecom-level Ethernet-ring protection protocol
- STP/RSTP/MSTP
- Active and standby uplinks and LACP link aggregation

Flexibile Networking

- Easy Maintenance with CLI/ Telnet/ SSH/ SSL and SNMP
- Web GUI module built-in for easy management procedures.
- Support FTP, TFTP, SFTP, ISSU, Zero Touch Provisioning.
- Automatic equipment discovery, network topology, equipment configuration, performance data statistic and analysis.

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 v1/2/3
- IGMP Snooping / IGMP Fast Leave
- IGMP Filter / MVR

IP

- Static route
- RIP, OSPF
- 512 routing table
- IPv4/v6 dual stack

Basic Standards

- IEEE 802.3 - 10Mbit/s
- IEEE 802.3ab - G.bit/s Base-T
- IEEE 802.3z - G.bit/s Base-X
- IEEE 802.3u - 10/100 Mbit/s auto
- IEEE 802.3x/ 802.3ad / 802.3af/ 802.3at
- IEEE 802.1d/ 802.1p/ 802.1q/ 802.1w/ 802.1ad

QoS

- CAR, HQoS, MAC/IP/TCP/UDP/ VLAN/COS/DSCP/TOS based
- QoS, 802.1P/DSCP priority relabeling, 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 DHCP Snooping and option 82, DAI & IP source guard, PPPoE+.
- IEEE 802.1x, Radius and BDTacacs+
- 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.

Environment

- Operating temperature/humidity: -10°C-60°C, 0%-95% non-condensing
- Storage temperature/humidity : -20°C-70°C, 0%-95% non-condensing



Advance IPv6

- ICMPv6, DHCPv6, ACLv6 and IPv6 Telnet
- IPv6 neighbor discovery, Path MTU discovery
- MLD V1, MLD snooping
- Manual tunnel, ISAPTAP Tunnel, 6 to 4 tunnel
- IPv6 Static Routing, RIPng, OSPFv3

Certification

- CE / FCC/ RoHS

Stability

- Static/LACP link aggregation, Interface backup
- EAPS and ERPS
- ISSU, VRRR, UDLD
- BVSS - 16 unit stack

Management

- Console, Telnet, SSH v1/2, HTTP, HTTPS SNMP v1/v2/v3, RMON
- TFTP, FTP, SFTP
- NTP
- ZTP(Zero Touch Provisioning)
- SPAN, RSPAN

DHCP

- DHCP server / relay / client
- DHCP snooping / option 82
- DHCP pool

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ASP2 Series

ASP2-2400S4 / ASP2-4800S6

SPECIFICATION

		ASP2-2400S4	ASP2-4800S6
Interface		24 x GE TX POE	48 x GE TX POE
		4 x 10GE / GE SFP +	6 x 10GE / GE SFP+
Backplane		128 Gbps	216 Gbps
Forwarding Rate (64bytes)		96 Mpps	162 Mpps
Power consumption	No load	25 W	18 W
	Full load	408 W	48 W - NO POE
Power supply	AC: 100-240V (50-60Hz) DC : 36-72V	410 W	450W AC / 800W DC
POE budget		370W	370W AC / 740W DC
Total Output BTU	(1000BTU/H=293W)	1393	1540 (AC) / 2730 (DC)
Fan		2	2
MTBF(H)		200,000 H	200,000 H
Dimension	WxDxH (mm)	440x210x44	440x300x44
Weight	Empty (kg)	4.1	5.2
Console		1 x RJ45 port	
Forwarding Mode		Store-Forward	
Flash (MB)		16	
DRAM (MB)		256	
MAC		16K	
Buffer size (MB)		4.1	
Jumbo Frame		9K	
Interface VLAN / Routing Table		64 / 2040	
Certification		CE, FCC, RoHS	
Temperature		Operational : -10°C-60°C Storage : -20°C-70°C	
Humidity		Operational : 0 - 95% Storage : 0 - 95% Non-Condensing	

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Optical Module

**Other module available upon request*

AS-SFP-CO	GE SFP single to RJ45 module
AS-SFP-SX-D	GE SFP MM (500m,850nm,LC,DDM)
AS-SFP-LX-10-D	GE SFP SM (10Km,1310nm,LC,DDM)
AS-SFP-LX-20-D	GE SFP SM (20Km,1310nm,LC,DDM)
AS-SFP-LX-40-D	GE SFP SM (40Km,1310nm,LC,DDM)
AS-SFP-ZX-80-D	GE SFP SM (80Km, 1550nm, LC, DDM)
AS-SFP-LX-310-10-BIDI	GE SFP SM, single-chip BIDI (10Km, TX1310/RX1550, LC, DDM)
AS-SFP-LX-310-20-BIDI	GE SFP SM, single-chip BIDI (20Km, TX1310/RX1550, LC, DDM)
AS-SFP-LX-550-10-BIDI	GE SFP SM, single-chip BIDI (10Km, TX1550/RX1310, LC, DDM)
AS-SFP-LX-550-20-BIDI	GE SFP SM, single-chip BIDI (20Km, TX1550/RX1310, LC, DDM)
AS-SFP+-SX	TE 10G SFP+ multi-mode (300m, 850nm, LC)
AS-SFP+-LX-10	TE 10G SFP+ single-mode (10Km, 1310nm, LC, DDM)
AS-SFP+-LX-20	TE 10G SFP+ single-mode (20Km, 1310nm, LC, DDM)
AS-SFP+-LX-40	TE 10G SFP+ single-mode (40Km, 1310nm, LC, DDM)
AS-SFP+-LX-SM-270-10	10GE SFP+SM, single-chip and BIDI (10Km, TX1270/RX1330, LC, DDM)
AS-SFP+-LX-SM-330-10	10GE SFP+SM, single-chip and BIDI (10Km, TX1330/RX1270, LC, DDM)
AS-SFP+-LX-SM-270-20	10GE SFP+SM, single-chip and BIDI (20Km, TX1270/RX1330, LC, DDM)
AS-SFP+-LX-SM-330-20	10GE SFP+SM, single-chip and BIDI (20Km, TX1330/RX1270, LC, DDM)
AS-SFP+-LX-SM-270-40	10GE SFP+SM, single-chip and BIDI (40Km, TX1270/RX1330, LC, DDM)
AS-SFP+-LX-SM-330-40	10GE SFP+SM, single-chip and BIDI (40Km, TX1330/RX1270, LC, DDM)

Optional Power Module

AS-P75-DC	Hot-swap DC Power (Max Power 75W, DC-36V~72V input, isolated cooling fan)
AS-P75-AC	Hot-swap AC Power (Max Power 75W, AC 100-240V input, isolated cooling fan)
AS-P150-DC	Hot-swap DC Power (Max Power 150W, DC-36V~72V input, isolated cooling fan)
AS-P150-AC	Hot-swap AC Power (Max Power 150W, AC 100-240V input, isolated cooling fan)