

LAYER 2 Gigabit with SFP+ Network Switch

AS2 Series

AS2-0802/ AS2-2404

OVERVIEW

Angustos AS2 Series is Layer 2 with Full-gigabit 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, QinQ, carrier-level QoS and carrier-level Ethernetring protection protocol with less than 50ms recovery time. Control L2-L7 data based on physical port, providing carriers flexible and various policy control methods. Support various L2 multicast functions such as IGMP-snooping, fast-leave and MVR to fully meet the operation requirements of carrier's IPTV.

PRODUCT FEATURES

Comprehensive IPv6 Solutions

Supports IPv6 protocol suite, IPv6 neighbor discovery, ICMPv6 and Path MTU discovery.
Supports Ping, Traceroute, Telnet, SSH and ACL
MAC Address Self-Learning and Auto MDI/tMDIX

Enhanced QoS

. Priority retagging and complicated flow classification based on VLAN, MAC, source address, destination address, IP or priority, better streamlining carrier's services

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, DHCP Server/Client/Relay
- . 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
- . 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%-90% non-condensing
- . Storage temperature/humidity : -20°C-70°C, 5%-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 RADVD

Certification

- . CE / FCC / RoHS

Stability

- . Static/LACP link aggregation, Interface backup
- . EAPS and ERPS
- . ISSU

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

LAYER 2 Gigabit Network Switch

AS2 Series

AS2-O8O2 / AS2-24O4

SPECIFICATION

		AS2-0802	AS2-2404
Interface		8 x GE TX	24 x GE TX
		2 x GE SFP	4 x GE SFP
Console		1 x RJ-45	1 x RJ-45
Backplane		20 Gbps	56 Gbps
Forwarding Rate (Mbps)		15 Mbps	42 Mbps
Power consumption	No load	3 W	7 W
	Full load	10 W	20 W
Power supply	100-240V (50-60Hz)	15W	25 W
Total Output BTU	(1000BTU/H=293W)	51.19	85.32
Fan		Fanless	Fanless
MTBF(H)		58,000 H	58,000 H
Dimension	WxDxH (mm)	346x289x92	555x295x88
Weight	Empty (kg)	1.5	2
Console		1 x RJ-45	1 x RJ-45
Forwarding Mode		Store-Forwarding	Store-Forwarding
Flash (MB)		16	16
DRAM (MB)		128	128
MAC		8K	8K
Jumbo Frame		9K	9K
Buffer Size (MB)		4.1	4.1
Total SVI		10	10
Certification		CE, FCC, RoHS	
Temperature		Operational : -10°C-60°C Storage : -20°C-70°C	
Humidity		Operational : 0 - 90% Storage : 5 - 95% Non-Condensing	
Standard		<ul style="list-style-type: none"> . IEEE 802.3 . IEEE 802.3ab . IEEE 802.3z . IEEE 802.3u . IEEE 802.3x . IEEE 802.3ad . IEEE 802.1D . IEEE 802.1P . IEEE 802.1Q . IEEE 802.1W . IEEE 802.1S . IEEE 802.1X . IEEE 802.1AX 	

OPTICAL MODULES FOR ANGUSTOS NETWORK SWITCH

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)
QSFP+SR4-100m	40G QSFP+ optical module (100m, 850nm, MPO, DDM, supports 1 to 4)
QSFP+LR4-10	40G QSFP+ optical module (10Km, 1310nm, LC, DDM)
QSFP+LR4-20	40G QSFP+ optical module (20Km, 1310nm, LC, DDM)
QSFP+ER4-40	40G QSFP+ optical module (40Km, 1310nm, LC, DDM)
QSFP28-SR4-100m	100G QSFP28 optical module (100m, 850nm, MPO, DDM)
QSFP28-LR4-10	100G QSFP28 optical module (10Km, 1310nm, LC, DDM)