



ANGUSTOS AS3-S Series Layer 3 Gigabit with SFP Plus Network Switch Owner's Manual



Network SWITCH

LAYER 3 Gigabit with SFP+ Network Switch AS3-S Series
AS3-S2406 / AS3-S4806 / AS3-S2406F / AS3-S4806F



Contents

- [1 OVERVIEW](#)
- [2 PRODUCT FEATURES](#)
- [3 SPECIFICATION](#)
- [4 Documents / Resources](#)
 - [4.1 References](#)

OVERVIEW

Angustos AS3 Series is Layer 3 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 10GE Ether-ring, ensuring this switch series meets application requirements in all kinds of complicated sites. It also supports layer-3 routing protocol.

PRODUCT FEATURES

Carrier-level High Reliability

- Redundant Power module
- Dual backup , hot-swap
- Seamless switching. BDD mechanism
- STP / RSTP/MSTP.
- VRRP – Ring protection

Telecom-Level Ethernet Switch

- Telecom-level Ethernet-ring protection protocol
- STP/RSTP/MSTP
- Active and standby uplinks and LACP link aggregation
- Layer 2 + Layer 3 MPLS VPN

Flexbile Networking

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

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

VLAN

- 4K Active VLAN,
- QinQ & Selective QinQ,
- GVRP, Private VLAN,
- Voice VLAN

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

Stability

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

Spanning Tree

- 802.1D (STP),
- 802.1W(RSTP) and 802.1S(MSTP)
- BPDU guard, root guard and loopback guard

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.

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

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
- IEEE 802.1d/ 802.1p/ 802.1q/ 802.1w
- IEEE 802.1ad/ 802.1az

Environment

- Operating temperature/humidity: -10°C-60°C, 0%-90% non-condensing
- Storage temperature/humidity : -20°C-70°C, 0%-90% non-condensing

SPECIFICATION

SPECIFICATION	AS3-S2406	AS3-S4806
Interface	24 x GE TX	48 x GE TX
	6 x 10GE / GE SFP +	6 x 10GE / GE SFP +
Backplane	216 Gbps	216Gbps
Forwarding Rate (Mpps)	126 Mpps	162 Mpps
Power consumption No load	32 W	33 W
Full load	55 W	64 W
Power supply 100-22 0V (50-60Hz)	75 W	75 W
Total Output BTU (1000 BTU/H=293W)	255.9	255.9
Fan	2	2

MTBF(H)		200,000 H	200,000 H	
Dimension xDxH (mm)	W	440x350x44	440x350x44	
Weight mpty (kg)	E	5.3	6	
		AS3-S2406F	AS3-S4806F	
Interface		24 x GE SFP	24 x GE SFP	
8 x GE TX			24 x GE TX	
6	x	10 GE/GE SFP+	6 x 10GE / GE SFP +	
Backplane		216 Gbps	216 Gbps	
Forwarding Rate (Mpps)		138 Mpps	162 Mpps	
Power consumption o load	N	32 W	38 W	
Full load		64 W	69 W	
Power supply 0V (50-60Hz)	100-22	75 W	75 W	
Total Output BTU BTU/H=293W)	(1000	255.9	511.9	
Fan		2	2	
MTBF(H)		200,000 H	200,000 H	
Dimension DxH (mm)	Wx	440x350x44	440x350x44	
Weight mpty (kg)	E	5.5	6	

SPECIFICATION (cont)

Forwarding Mode		Store-Forward
Flash (MB)		16
DRAM (MB)		512
MAC		32K
Buffer size (MB)		2
Jumbo Frame		9K
Routing Table	IPv4	12K
	IPv6	6K
ARP Table	IPv4	12K
	IPv6	2K
Total SVI		1K

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	
AS3-PWM-150-DC	Hot-swap DC Power (Max Power 150W, DC-36V~72V input, isolated cooling fan)
AS3-PWM-150-AC	Hot-swap AC Power (Max Power 150W, AC 100-240V input, isolated cooling fan)



Documents / Resources



[ANGUSTOS AS3-S Series Layer 3 Gigabit with SFP Plus Network Switch](#) [pdf] Owner's Manual

AS3-S2406, AS3-S4806, AS3-S2406F, AS3-S4806F, AS3-S Series Layer 3 Gigabit with SFP Plus Network Switch, AS3-S Series, Layer 3 Gigabit with SFP Plus Network Switch, Gigabit with SFP Plus Network Switch

References

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