

- Twice the Performance at Half the Price
- Revolutionary New Architecture
- Innovative, Advanced Features
- All Features Included

The AX Series Advanced Traffic Manager family from A10 Networks is designed to meet the growing demands of Web sites, carriers and enterprises. The AX Series offers intelligent Layer 4-7 application processing capabilities with industry-leading performance and scalability to meet critical business requirements at competitive prices.

The AX Series' unique Advanced Core Operating System

(ACOS) offers true scalable performance. With rich Layer 7 features and its aFleX scripting language, the AX Series integrates into any data center to enable advanced Web application delivery solutions. The AX Series also includes the most comprehensive set of IPv6 and Network Address Translation (NAT) features of any Advanced Application Delivery Controller (ADC) on the market today.

AX Series' advanced server load balancing and flexible health monitoring capabilities ensure application availability and reliability. With the AX Series' standard redundant components and high availability design, organizations ensure non-stop service availability for all types of applications. With the AX Series' linerate security defenses and secure email features, organizations can now deploy data-center-wide protection against network-level attacks to ensure business continuity for critical services.











Key Benefits

Industry-leading Application Price/Performance

- Superior performance Layer 4 connections per second (CPS), Layer 7 transactions per second (TPS), SSL CPS, SSL TPS and Layer 4-7 throughput.
- The high-end AX 5200-11 offers 4.5 million L4 CPS in a single 2U compact platform.
- Industry's best performance per watt, per dollar, and per rack unit.
- Advanced Core Operating System (ACOS) delivers multi-threaded performance and is tuned for multiple CPUs with multiple cores for futureproof scalability.
- Purpose-built hardware provides efficient packet buffer management,

- TCP connection multiplexing, SSL acceleration, support for IPv4 and IPv6 and much more.
- 10/100/1000-Mb and 10-Gb interfaces.

Application Availability, Scalability and Flexibility

- ACOS is designed to provide a scalable, flexible platform.
- Provides 99.999% reliability for applications.
- Scales server farm capacity with newgeneration server load balancing.
- Flexibility to adapt to changing business requirements with aFleX scripting language.
- Supports both Transparent Mode

- and Gateway Mode for flexibility in deployment.
- Supports Layer 2 Hot-Standby, Active-Active and Active-Standby.
- Delivers carrier-grade high availability (HA) for 100% uninterruptible service.

Integrated Application Security

- Protects application servers from Denial of Service (DoS) and protocol anomaly attacks.
- Ensures application availability for legitimate traffic during malicious attacks.
- Line-rate performance AX 5200-11 supports over 50 million SYN cookies per second with zero additional CPU utilization.

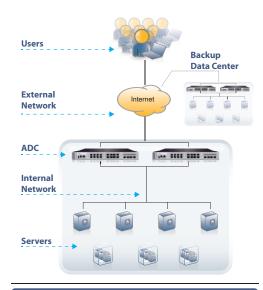
Hardware Summary

Intel Sandy Bridge-based Models





The AX family includes a range of platforms that vary according to performance, price and hardware.



Application Delivery Landscape

	AX 1030	AX 3030				
Model Option Code	N/A	N/A				
Layer 4 Throughput	7.5 Gbps	27 Gbps				
Layer 4 CPS	430K	580K				
SSL CPS	5.5K	12K				
Ethernet Interface Gigabit Copper Gigabit Fiber – SFP 10-Gigabit Fiber	6 2 0	6 2 2*				
Management Interface	Yes	Yes				
Console Port	Yes	Yes				
Solid-state Drive (SSD)	Yes	Yes				
Cooling Fan	Hot Swap Smart Fans					
Maximum Power Consumption	155 W	188 W				
Performance Per Watt (PPW)***	2774	3085				
Power Supply	1 x 400 W**	Dual 400 W RPS				
rower Suppry	100 to 240 VAC, Frequency 50 – 60 Hz					
Hardware Acceleration Linear Decoupled Architecture Flexible Traffic ASIC Switching/Routing ASIC SSL Acceleration ASIC Multi-ASIC SSL Card Option Compression ASIC Card Option Total Optional Cards Per Unit	Yes No No Yes No No O	Yes No No Yes No No O				
Dimensions	1.7 in (H), 17.2 in (W), 16.6 in (D)					
Rack Units (Mountable)	1 U	1 U				
Unit Weight	17.5 lbs	19.5 lbs				
Operating Ranges	Temperature and Humidity 0° - 40° C 5% - 95%					
Regulatory Certification	FCC Class A, UL, CE, TUV, CB, VCCI					
Standard Warranty	90-day Hardware & Software					

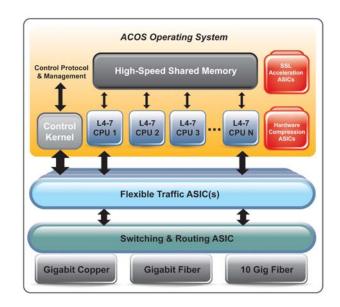


Advanced Core Operating System (ACOS)

Designed for 64-bit processing, the AX Series integrates modern multicore, multi-threaded OS technologies (ACOS) with A10's Flexible Traffic ASIC, switching/routing ASIC and SSL Acceleration ASIC to provide performance advantages. Leveraging Scalable Symmetric Multiprocessing (SSMP) technologies used in super-computing, the AX Series uses a decoupled multi-CPU architecture with simultaneous high-speed memory access to process application traffic in true parallel fashion, without the need

to copy data or replicate computing instructions.

ACOS, standard in all AX models, provides true linear scalability of Layer 4-7 application features – for acceleration, availability, and security. The AX Series includes HTTP/HTTPS server load balancing, secure email services, Global Server Load Balancing (GSLB), DNS Application Firewall, video/voice acceleration and IPv4 and IPv6 traffic management.



Intel Nehalem/Westmere-based Models





AX 2500



AX 5200

	AX 2500	AX 2600		AX 3000		AX 5100	AX 5200				
Model Option Code	N/A	GC	GF	GCF	GC	GCF	11-GCF	N/A	N/A	11	
Layer 4 Throughput	11 Gbps	19 Gbps		22 Gbps		30 Gbps	40 Gbps	40 Gbps			
Layer 4 CPS	300K	355K		440K		850K	2 million	3 million	4.5 million		
SSL CPS	8.2K [‡] /30K ^{‡‡}	12K‡/33K‡‡		12K [‡] /35K ^{‡‡}		12K‡/49K‡‡	82K‡‡	100K ^{‡‡}	150K ^{‡‡}		
Ethernet Interface Gigabit Copper Gigabit Fiber – SFP 10-Gigabit Fiber	8 4 0	24 0 0	0 24 0	16 8 0	16 0 4*	8 8 4*	8 8 4*	0 4 8	0 4 16**	0 4 16**	
Management Interface	Yes	Yes			Yes		Yes	Yes	Yes		
Console Port	Yes	Yes		Yes		Yes	Yes	Yes			
Solid-state Drive (SSD)	Yes	Yes			Yes			Yes	Yes	Yes	
Cooling Fan	Hot Swap Smart Fans										
Maximum Power Consumption	250 W	291 W		308	308 W 315 W		610 W	620 W	660 W		
Performance Per Watt (PPW)***	1200	1220		1429 2698		2698	3279	4871	6818		
Power Supply	Dual 400 W RPS	Dual 400 W RPS			Dual 400 W RPS		Dual 900 W RPS	Dual 900 W RPS	Dual 1200 W RPS		
	100 to 240 VAC, Frequency 50 – 60 Hz										
Hardware Acceleration Linear Decoupled Architecture Flexible Traffic ASIC Switching/Routing ASIC SSL Acceleration ASIC Multi-ASIC SSL Card Option Compression ASIC Card Option Total Optional Cards Per Unit	Yes No No Yes 1 1	Yes No No Yes 1 1		Yes No No Yes 1 1		Yes 4 Yes Option 1-4 1-2 4	Yes 4 Yes Option 1-4 1-2 4	Yes 2 x FTA-2 Yes Option 1-4 1-2 4			
Dimensions	1.75 in (H), 17 in (W), 21.8 in (D)						3.5 in (H), 17 in (W), 29 in (D)				
Rack Units (Mountable)	1 U	1 U		1 U		2 U	2 U	2 U			
Unit Weight	25 lbs	25 lbs		25 lbs		60 lbs	61 lbs	62 lbs			
Operating Ranges	Temperature and Humidity 0° - 40° C 5% - 95%										
Regulatory Certification	FCC Class A, UL, CE, TUV, CB, VCCI, NEBS****										
Standard Warranty	90-day Hardware & Software										

[‡] Standard SSL performance | ‡‡ With maximum Multi-ASIC SSL cards

^{*} SFP+ | ** XFP | *** Layer 4 CPS per watt | **** NEBS Level 3 (AX 2500, AX 3000-GCF and AX 5200)

Features

» Application Delivery Features

- Comprehensive IPv4/IPv6 Support
- Advanced Layer 4/Layer 7 Server Load Balancing
 - ◆ Fast HTTP, Full HTTP Proxy
 - ◆ High-performance, template-based Layer 7 switching with header/URL/ domain manipulation
 - Comprehensive Layer 7 application persistence support
- · Comprehensive load balancing methods
 - Round Robin, Least Connections, Weighted RR, Weighted LC, Fastest Response, & more
- aFleX deep packet inspection and transformation for customizable, application-aware switching
- Advanced Health Monitoring
 - Comprehensive Protocol Support - ICMP, TCP, UDP, HTTP, HTTPS, FTP, RTSP, SMTP, POP3, SNMP, DNS, RADIUS, LDAP, & more
 - ◆ TCL Scriptable Health Check Support
 - ◆ High Availability Active-Active, Active-Standby configurations with sub-second failover
 - ◆ SIP Load Balancing for VoIP and other rich-media applications
 - ◆ STARTTLS support for Secure Email (POPS, SMTPS, IMAPS) & LDAPS
- Spam Filter Support high-speed application of very large black/white lists
- Firewall Load Balancing (FWLB)
- Global Server Load Balancing (GSLB)
- Transparent Cache Switching (TCS)
- Link Load Balancing (LLB)

Performance by Design

To learn more about the

AX Series Advanced Traffic

Manager and how to improve

application performance up to

ing reliability and security, visit

8 times faster while enhanc-

A10 Networks' website at:

www.a10networks.com

A10 sales representative.

or call and talk to an

Diameter AAA Load Balancing

» Acceleration & Security Features

- HTTP Acceleration & Optimization
 - ◆ HTTP Connection Multiplexing
 - HTTP Caching
 - HTTP Compression (hardware based)
- SSL Acceleration
 - Hardware-based SSL Offload
 - Support for all TCP Protocols SSL Termination, SSL Bridging (SSL Initiation)
- SSL Session ID Reuse
- Hardware-based SYN Cookies. IP **Anomaly Detection**
- Connection Rate Limiting/Connection Limitina
- DNS Application Firewall

» High Performance, Scalable Platform

- ACOS Operating System
 - ◆ Multi-core, Multi-CPU Support
 - Linear Application Scaling
 - Linux on Control Plane
- · ACOS on Data Plane

» Networking

- Integrated Layer 2/Layer 3
- Transparent Mode/Gateway Mode
- Routing Static Routes, IS-IS (v4/v6), RIPv2/ng, OSPF v2/v3, BGP4+
- VLAN
- Trunking
- Access Control Lists (ACLs)
- Traditional IPv4-->IPv4 NAT/NAPT
- IPv6-->IPv6 NAPT

» IPv6 Migration/IPv4 Preservation

• Full native IPv6 management and feature support

- SLB-PT (Protocol Translation), SLB-64 (IPv4<->IPv6, IPv6<->IPv4)
- Application Level Gateways (ALGs) for FTP, TFTP, RTSP, PPTP, SIP, ICMP,
- Carrier Grade NAT (CGN), Large Scale NAT (LSN), NAT444, NAT44
- NAT64/DNS64, DS-Lite, 6rd

» Management

- Dedicated Management Interface (Console, SSH, Telnet, HTTPS)
- Web-based Graphical User Interface (GUI) with Language Localization
- Industry-standard Command Line Interface Support
- SNMP, Syslog, Alerting
- Port Mirroring
- REST-style XML API (aXAPI)

» Virtualization

- aVCS (AX Virtual Chassis System)
- SoftAX Virtual Appliance (Optional)
- Multi-tenancy with Application Delivery-Partitions (ADPs)
 - Role-based Administration (RBA)
 - Partition-based Management
 - ◆ L2/L3 Virtualization
- Hypervisor Acceleration and Management Integration

» Carrier-grade Hardware

- Advanced Hardware Architecture
- Redundant Power Supplies
- AC or DC Power Supplies
- Removable Fan Tray
- Solid-state drive (SSD) and Compact Flash
- **High Port Density**
- 10-Gb Ports

About A10 Networks

A10 Networks was founded in 2004 with a mission to provide innovative networking and security solutions. A10 Networks makes high-performance products that help organizations accelerate, optimize and secure their applications. A10 Networks is headquartered in Silicon Valley with offices in the United States and centers of excellence around the globe. For more information, visit www.a10networks.com.

Corporate Headquarters | World Wide Offices:

A10 Networks, Inc. 2309 Bering Drive San Jose, CA 95131 Tel: +1 408 325-8668

Fax: +1 408 325-8666 **North America Sales:**

+1 888 A10-6363 +1 408 325-8616 sales@a10networks.com

Asia Pacific (Main)

apac_sales@a10networks.com

China

china_sales@a10networks.com

Hong Kong

hongkong@a10networks.com

Japan

iinfo@a10networks.com

korea@a10networks.com

Malaysia

southasia@a10networks.com

Singapore

southasia@a10networks.com

taiwan@a10networks.com

Europe (Main)

emea_sales@a10networks.com France france@a10networks.com

Germany

emea_sales@a10networks.com The Netherlands

emea_sales@a10networks.com

Latin America (Main)

latam_sales@a10networks.com Brazil:

brazil@a10networks.com



