



ACOS

64-bit ADC

Data Center Ready Today, and Tomorrow

- Advanced DDoS protection
- Burst tolerant for large web properties
- Compact 1U form factor with low power consumption
- Accelerate with SSL offload, RAM caching and compression
- Advanced features; GSLB, aFlex traffic control and aXAPI management
- Most comprehensive IPv6 transition and IPv4 preservation support
- No licenses for premium features

Cost Effective Scalability

- High performance reduces legacy ADCs and OPEX
- Virtualization for multi-tenancy and consolidation
- Scale-up with Virtual Chassis (aVCS), no upfront investment
- Handle larger SSL key sizes (2048-bit+)
- 10 Gb port connectivity
- More power, Intel Hex-core CPU
- No performance licenses

Application Optimization

- Optimize any application, including Microsoft SharePoint, Exchange, Lync, Oracle, DNS and more
- Improve web server response times and reduce required servers

Built for Uptime and Peace of Mind

- Redundant power supply included
- SSD versus HDD (no spinning media)
- Reliable server grade ECC memory
- Application health checks

- Value: Supercomputer Class Performance in 1U ADC Platform
- Efficiency: Lowest Power Usage, Highest Performance Per Watt (PPW)
- Reliability: Carrier Class Hardware Platform

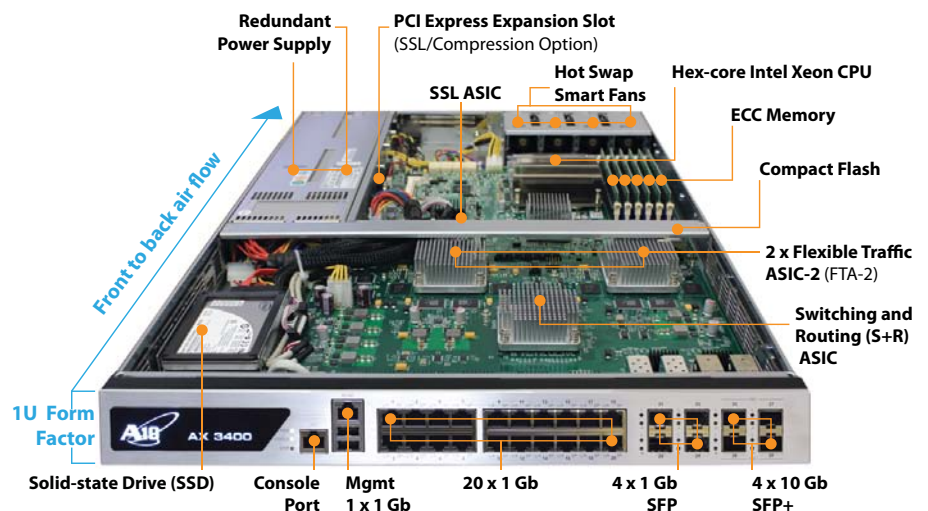
The AX 3400 is a 64-bit 1U Advanced Application Delivery Controller (ADC) in the award winning A10 Networks line of hardware appliances. The AX 3400 offers the best value in a mid-range Flexible Traffic ASIC (FTA) platform for key Server Load Balancing, Virtualization and IPv6 Migration projects.

Like all AX Series hardware appliances, maximum performance and advanced software features are included, ensuring no budget surprises or need to purchase licenses during unforeseen peak loads.

The AX 3400 offers 38 Gbps of throughput, and 2.5 million Layer 4 connections per second (L4 CPS) while consuming a maximum 338 Watts, which translates to 7396 L4 CPS per Watt in a 1U platform.

Reliable operation with maximum uptime can be guaranteed with high quality hardware specifications and components, including four 10 Gbps ports to accommodate large throughput environments. The AX 3400's server grade processor, Error Correcting Code (ECC) memory and solid-state drive (SSD) deliver data center robustness, all backed by world class support.

The AX 3400's reliability, scalability and performance dramatically alter the playing field for mid and high-end ADCs. The AX 3400 enables a new level of protection and reliability in the mid-range ADC market.



AX Series 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
- 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
 - ◆ 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)
- Diameter AAA Load Balancing

Acceleration & Security Features

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

High Performance, Scalable Platform

- ACOS Operating System
 - ◆ Multi-core 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, DNS
- 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 (separate)
- Multi-tenancy with Application Delivery Partitions (ADPs)
 - ◆ Role Based Administration (RBA)
 - ◆ Partition Based Management
 - ◆ L2/L3 Virtualization
- Hypervisor acceleration and management integration

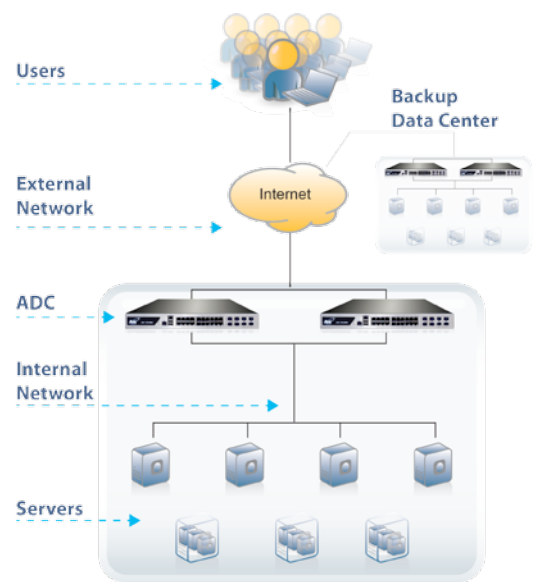
Carrier-grade Hardware

- Advanced hardware architecture
- Hot swap Redundant Power Supply
- Hot swap smart fans
- Solid-state drive (SSD) and Compact Flash
- Error Correcting Code (ECC) memory
- SSL/Compression expansion slot



AX 3400 Hardware Summary

	AX 3400
Processor	1 x Hex-core
Hardware Acceleration	2 x FTA-2, L2/3 S+R ASIC, SSL ASIC
Memory	24 GB
Ethernet Interfaces	20 x 1 Gb Copper, 4 x 1 Gb Fiber (SFP) and 4 x 10 Gb Fiber (SFP+)
Management Interface	1 Dedicated
Console Port	1 Console Interface
Solid-state Drive (SSD)	Yes
Compact Flash	Yes
Power Supply	Dual 400 W RPS included, 100 – 240 VAC, Frequency 50 – 60 Hz
Max Power Consumption	338 W
Operating Temperature Range	0° – 40° C
Dimensions	1.7 in (H) x 17 in (W) x 24.6 in (D) 1U Rack Mountable
Unit Weight	26.5 lbs
Regulatory Certification	FCC Class A, UL, CE, TUV, CB, VCCI
Standard Warranty	90-day Hardware & Software



Application Delivery Landscape

Faster Better Greener