PTS
DATA CENTER SOLUTIONS
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AX Series Advantage

A10 Networks was created to solve business problems through the innovative use of modern networking and security technologies. With the rapid speed of online communication today, customers are choosing A10's flagship AX Series Application Delivery Controllers to help their networks and business keep pace.

With the boom in video technology, sharing of large files, eCommerce applications, social networking, email traffic, wireless devices, smartphones and many more, Internet traffic is predicted to grow 40 percent year over year. A10's AX Series are new generation server load balancers with the industry's highest performance and scalability to address organizations' network needs to ensure fast and secure Web or other applications for end users, today and in the future.

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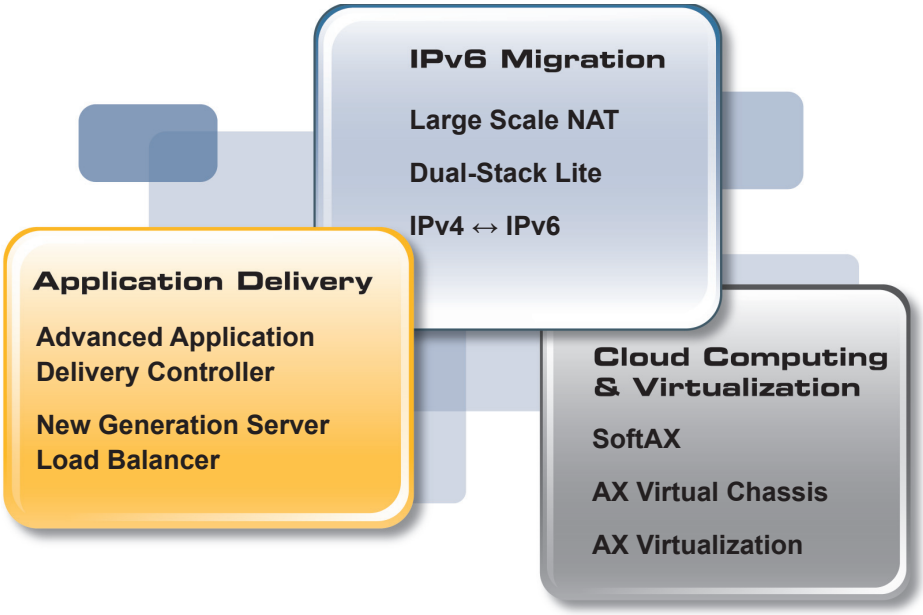
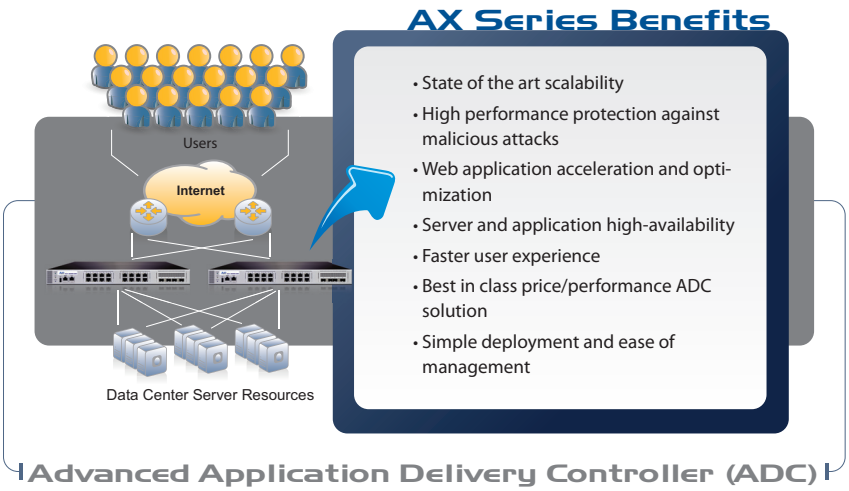
AX Series Solutions

The AX Series is a high-performance, scalable platform and the technology leader in three key addressable markets. The first is our core market for Advanced Application Delivery Controllers and new generation server load balancer functionality. The second is IPv6 migration, which is an early stage market with significant growth potential. The third is Cloud Computing and Virtualization whereby Virtualization is at the Center of Cloud Computing and the AX Series delivers the widest range of options.



The AX Series family includes platforms for all size enterprises, data centers and carriers/ISPs, in all verticals.



Application Solutions

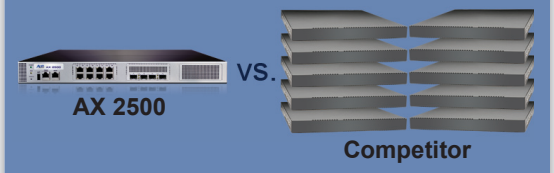
The AX Series increases scalability, availability and security for enterprise applications. A10 has a variety of deployment guides and customer usage scenarios to assist with efficient enterprise deployments.

Blackboard · Microsoft · IMPERVA · ORACLE · Juniper NETWORKS · vmware

AX Series ROI

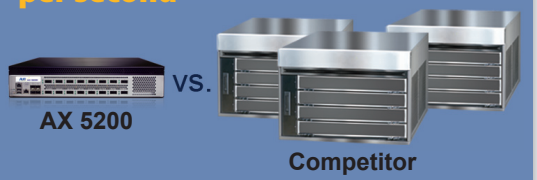
From entry-level to high-end, A10's AX Series delivers rapid return on investment (ROI) versus the market-share leader.

Equivalent Throughput: 10 Gbps



To obtain throughput equal to our entry-level 64-bit AX 2500, you would need 10 of the market-share leader's entry-level appliances at over 10X CAPEX cost, space, power and units to manage.

Equivalent Performance: 3+ million Layer 4 connections per second



To obtain performance equal to our high-end, "supercomputer class" 64-bit AX 5200, you would need three of the market-share leader's fully loaded chassis systems at more than 6X CAPEX cost, 9X space, 9X power to run and 3x units to manage.

A10 Networks

AX Series Differentiators

64-bit: The AX Series appliances are the industry's first 64-bit Application Delivery Controllers, featuring our 64-bit Advanced Core Operating System (ACOS) and 64-bit hardware platforms. 64-bit processing is the latest significant leap for networking devices, increasing addressable memory to achieve the industry's highest levels of scalability and performance. The impact to users and network architects is considerable: Users are delivered applications faster and seamlessly, with network architects obtaining greater efficiencies, flexibility and extensibility when deploying and managing data center applications. As data centers upgrade to 64-bit applications and servers, the 64-bit AX Series ensures a return on investment for years to come.

Innovative Architecture: AX's Advanced Core Operating System (ACOS) employs a shared memory architecture for maximum efficiency. ACOS was designed for modern multi-core processors, uniquely with zero copy, zero Inter- Process Communication (IPC), zero interrupt, zero scheduling and zero locking to achieve linear scalability across CPUs. This delivers higher performance, higher throughput, lower latency and higher energy efficiency than any other ADC on the market.

Advanced Features: Employs specific Layer 4-7 performance and acceleration technologies such as SSL Off-load, Caching, Compression, TCP Connection Reuse & HTTP Multiplexing. Includes advanced features such as superior High Availability, L7 Scripting, DNS Application Firewall, IPv6-IPv4 translation, Large Scale NAT, DS-Lite, Virtualization, Dynamic Provisioning and Global Server Load Balancing for Business Continuity.

Energy Efficiency: Delivers the industry's most compact and "green" solutions with the best performance per Watt per rack unit. Competitors' high end platforms offer less than half the performance, while using three times the power and rack space. At 680 Watts maximum power consumption, the AX 5200 is the world's performance and energy efficiency leader, redefining the requirements for the high-end "supercomputer class" ADC.

Price/Performance: Confirmed to deliver twice the performance at half the price of incumbent solutions. All features are included without additional licensing fees, greatly reducing total cost of ownership for enterprises. This applies equally to feature and performance licenses.

Datacenter Consolidation: Replaces incumbent ADCs such as those from F5 Networks, Citrix (NetScaler), Cisco, Juniper/Redline, Radware and others at a ratio of three to one AX, or higher.

Superior Technical and Engineering Support: A10 delivers the most responsive support in the market today, with the capability to resolve complicated issues within days versus weeks or months.

Customers select the AX Series because they are faster, better and greener than any competing solution on the market today.

Faster

Faster – Speed and capacity: According to performance metrics including Layer 4, Layer 7 and throughput, AX Series delivers the industry's best price/performance ratio. Architected for scalability, the compact 2U AX 5200 can achieve over 3 million L4 connections per second (CPS), which exceeds competitors chassis systems by up to 3X.

Better

Better – Flexible platform, advanced features, disruptive price and world-class support: The AX platform is designed to meet customers' current and future needs with headroom to grow. For organizations working on initiatives for datacenter consolidation, virtualization, software as a service (SaaS), cloud computing, IPv6 and more, AX dramatically lowers the total cost of deployment as all features are included without additional licensing fees. AX Series delivers the most responsive support in the market, guaranteeing customer satisfaction.

Greener

Greener – Industry's most energy efficient platform: The scalable Advanced Core Operating System (ACOS) architecture, with shared memory, provides the foundation for the industry's most energy-efficient ADC. The high-end "supercomputer class" AX 5200 sets a new green standard in a compact 2U appliance with 3X the performance, 1/3 the size and 1/6 less power to run versus competing chassis solutions. All AX models deliver the highest performance per Watt (PPW) than competing solutions.

AX Series' standard features, custom scripting features and ability to rapidly develop features deliver the flexibility to integrate into the most complex application environments.

aFleX TCL-based scripting enables flexibility to off-load server tasks to the AX as well as overcome integration issues from legacy applications, user browsers or cutting edge mashups in Web 2.0 environments. aFleX traffic customization examples include:

- Application Optimization and Availability
  - Traffic redirection to optimize servers based on content
  - Traffic redirection to optimize servers based on user language
  - URL rewrite for compatibility
- Security
  - Drop traffic conforming to certain characteristics
  - Implement emergency attack protection in the time between attack identification and server security patch availability
  - Server cloaking
  - Overflow protection
- Data Protection
  - Legacy HTTP to HTTPS conversion on the AX, transparently to the browser
  - Inbound or outbound inspection
  - Regardless of cause, block (or change) sensitive data from leakage

aXAPI REST-style XML API allows dynamic integration into any third party or home-grown application, allowing applications to adjust policies or gain information in real-time, as needed. An example of this is the aXAPI and VMware vCenter integration for dynamic provisioning and de-provisioning. Any application can utilize aXAPI to improve servers, virtual or physical.

Scriptable Health Checks in TCL, Perl and other shell scripts ensure any application can be supported. While application health checks can check an element for data to ensure an application is operating, scriptable health checks allow an application to check multiple elements to show state up or down. Network, Web server, application server and other elements can all be confirmed to be operational as needed.

Advantage versus Competitors

- **All inclusive pricing, no performance or feature licenses**
- **Most scalable appliances in the market with unique modern 64-bit ACOS Operating System; including solid-state drives (SSD) and multiple hardware acceleration ASICs**
- **Faster application inspection with aFleX TCL rules**
- **aXAPI for custom management**

AX Series

AX Series is a Safe Choice

With over 500 AX Series customers worldwide, A10 is one of the fastest growing technology companies in the Silicon Valley. 80 percent of our revenue comes from large enterprises and service providers, and examples include the largest Internet and online retail sites and automobile vendors in the world, the largest cable providers in the US and the largest carriers in Japan. A10 has solid financials with over 150% year-to-year growth for over three consecutive years.

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.

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