



Data Center Ready Today, and Tomorrow

- Advanced DDoS protection
- Burst-tolerant for large web properties
- 3U 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 licensing fees 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 (up to 4096-bit)
- 40 Gb port connectivity
- More power: Intel Xeon Octo-core CPUs
- No performance licenses

Application Optimization

- Optimize any application, including Microsoft SharePoint, Exchange, Lync, ADFS, 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

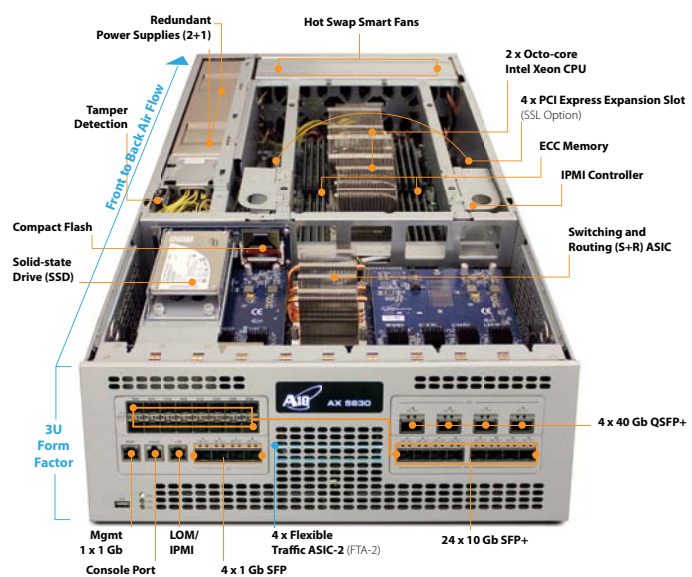
- Value: High-Performance 40 Gb Port ADC with High-end FTA for Hardware Acceleration
- Efficiency: Low Power Usage, High Performance Per Watt (PPW)
- Reliability: Carrier Class Hardware Platform

The AX 5630 is a 64-bit 3U Advanced Application Delivery Controller (ADC) in the award winning A10 Networks line of hardware appliances. The AX 5630 offers the best value in a high-end Flexible Traffic ASIC (FTA) platform for key projects such as Server Load Balancing, Virtualization and IPv6 Migration.

The AX 5630 offers 77 Gbps of throughput, and 6 million Layer 4 Connections per Second (L4 CPS). The 3U platform consumes a maximum of 890 watts, which translates to 6742 L4 CPS per watt. The AX 5630 with up to four high performance SSL cards shows true SSL leadership with 180,000 CPS for 1024-bit keys and 174,000 CPS for 2048-bit keys, delivering near parity performance for the two key sizes. With the industry migrating to SSL key sizes of 2048-bit, the AX 5630 drives data center efficiency and consolidation, out-performing competitors' high-end ADC systems in a 3U appliance.

Reliable operation with maximum uptime can be guaranteed with high quality hardware specifications and components, including four 40 Gb ports to accommodate large throughput environments. The AX 5630's carrier-grade CPUs, Error Correcting Code (ECC) memory and Solid-state Drive (SSD) deliver data center robustness, all backed by world class support.

The AX 5630's reliability, scalability and performance dramatically alter the playing field for high-end ADCs. The AX 5630 enables a new level of protection and reliability in the carrier class 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, & 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)
- 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)
 - ◆ TLS 1.2 and 4096-bit SSL key support
- SSL Session ID Reuse
- Hardware-based SYN Cookies, IP Anomaly Detection
- Connection Rate Limiting/Connection Limiting
- DNS Application Firewall
- SSL Intercept

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 (802.1Q)
- Trunking (802.1AX), LACP
- Access Control Lists (ACLs)
- Traditional IPv4->IPv4 NAT/NAPT
- IPv6->IPv6 NAPT
- Jumbo frame support

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, ESP
- Carrier Grade NAT (CGN), Large Scale NAT (LSN), NAT444, NAT44, NAT46*
- 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 (CLI)
- SNMP, Syslog, Email Alerts
- Port Mirroring
- REST-style XML API (aXAPI)
- LDAP, TACACS+, RADIUS Support

Virtualization

- aVCS (AX Virtual Chassis System)
- SoftAX Virtual Appliance for VMware vSphere, Citrix Xen and KVM options
- Multi-tenancy with Application Delivery Partitions (ADPs)
 - ◆ Role-based Administration (RBA)
 - ◆ Partition-based Management
 - ◆ L2/L3 Virtualization
- Hypervisor acceleration and management integration

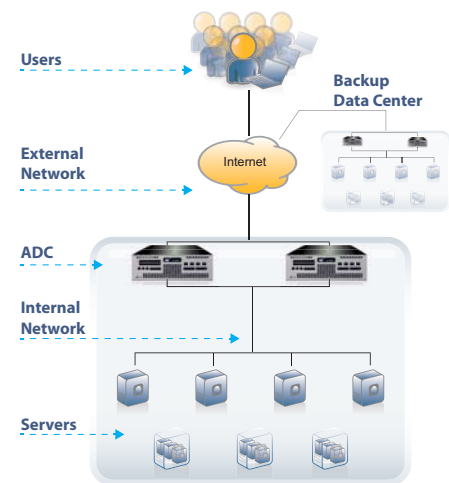
Carrier-grade Hardware

- Advanced hardware architecture
- Redundant Power Supplies (2+1)
- AC or DC Power Supplies
- Smart Fans (hot swap)
- Solid-state drive (SSD) and Compact Flash
- High Port Density
- 40 Gb, 10 Gb, 1 Gb Ports
- ◆ Tamper Detection
- ◆ Lights Out Management (LOM/IPMI)

*Available in release 2.6.6 P4

AX 5630 Appliance Summary

	AX 5630
Processor	2 x Intel Xeon Octo-core
Hardware Acceleration	4 x FTA-2, L2/3 S+R ASIC, 4 x SSL expansion cards (option)
Memory	128 GB
Ethernet Interfaces	4 x 1 Gb Fiber (SFP), 24 x 10 Gb Fiber (SPF+) , 4 x 40 Gb Fiber (QSFP+)
Application Delivery Partitions (ADP) RBA/L3V	128/1024
Management Interface	1 Dedicated
Console Port	1 Console Interface
Power Supply	2 + 1 Dual 1200 W RPS included, 100 – 240 VAC, Frequency 50 – 60 Hz
Max Power Consumption	890 W
Operating Temperature Range	0° – 40° C
Dimensions	5.3 in (H) x 16.9 in (W) x 28 in (D)
Unit Weight	67 lbs
Regulatory Certification	FCC Class A, UL, CE, TUV, CB, VCCI
Standard Warranty	90-day Hardware & Software



Application Delivery Landscape