



ACOS

64-bit

Data Center Ready Today, and Tomorrow

- Enable Consolidation with Compact 1U form factor with low power consumption
- Advanced features
- No licenses for premium features

Advanced IPv6 Transition and IPv4 Preservation Support

- Carrier Grade NAT (CGN), Large Scale NAT (LSN), NAT444, NAT44
- Dual-stack Lite (DS-Lite), 6rd, NAT64/ DNS64 and Stateless NAT46
- Application Level Gateways (ALGs) for FTP, TFTP, RTSP, PPTP, SIP, ICMP, DNS

Effective Scalability

- High performance reduces legacy devices and OPEX
- Scale up with Virtual Chassis (vCS); no upfront investment
- 10-Gb port connectivity
- Investment longevity with the latest Intel Octo-core CPUs
- No performance licenses

Built for Uptime and Peace of Mind

- Lights Out Management (LOM)
- Redundant power supplies
- SSD versus HDD (no spinning media)
- Reliable server-grade ECC memory
- High availability

- Value: Compact CGN and IPv6 Solution Handling the Highest Throughput
- Efficiency: Smallest Form Factor (1RU) in Class, Outperforms Chassis Solutions
- Reliability: Carrier Class Hardware Platform with Lights Out Management

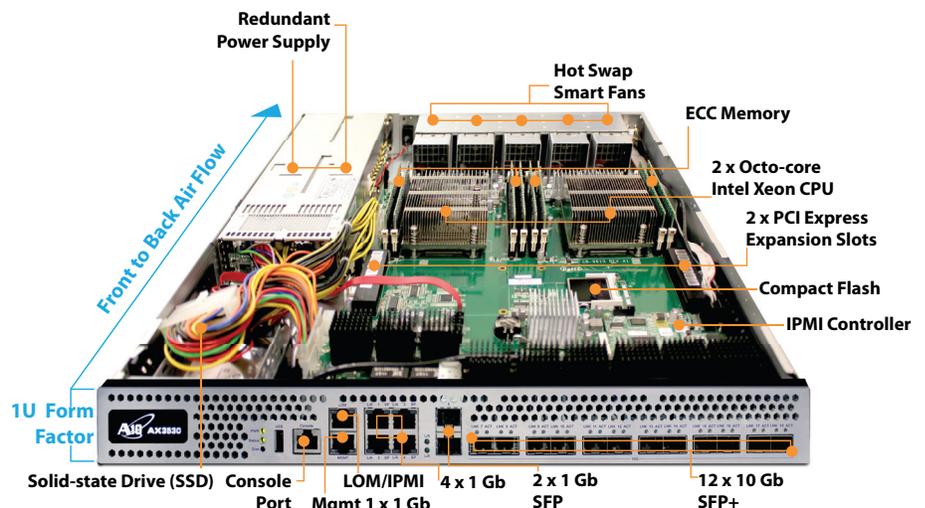
The AX 3530 is a new 64-bit 1U Advanced Traffic Manager in the award winning A10 Networks line of hardware appliances. The AX 3530 offers high value in the upper mid-range of the AX 10-Gb port platforms for key IPv6 migration and IPv4 preservation projects.

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 3530 offers 115 Gbps of throughput and 256 million concurrent sessions while consuming a maximum of 476 Watts. The AX 3530 is the only complete Advanced Traffic Manager in its class delivered in only 1 RU, driving data center efficiency and consolidation of current vendors' high end units.

Reliable operation with maximum uptime and cutting edge performance can be guaranteed with high quality hardware specifications and components, including Lights Out Management (LOM) support with the integrated Intelligent Platform Management Interface (IPMI). The AX 3530's two 8-core Intel Xeon Sandy Bridge processors, 12 x 10 Gbps ports, Error Correcting Code (ECC) memory and solid-state drive (SSD) deliver data center robustness, all backed by world class support.

The AX 3530's reliability, scalability and performance dramatically raise the bar for any Advanced Traffic Manager requiring 10-Gb port density, high throughput rates and high scalability.



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, and others
- 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/CGNAT), ⁺⁺ 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 (CLI) Support
- SNMP, Syslog, Alerting
- Port Mirroring
- REST-style XML API (aXAPI)

Virtualization

- AX Virtual Chassis System (aVCS)
- 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

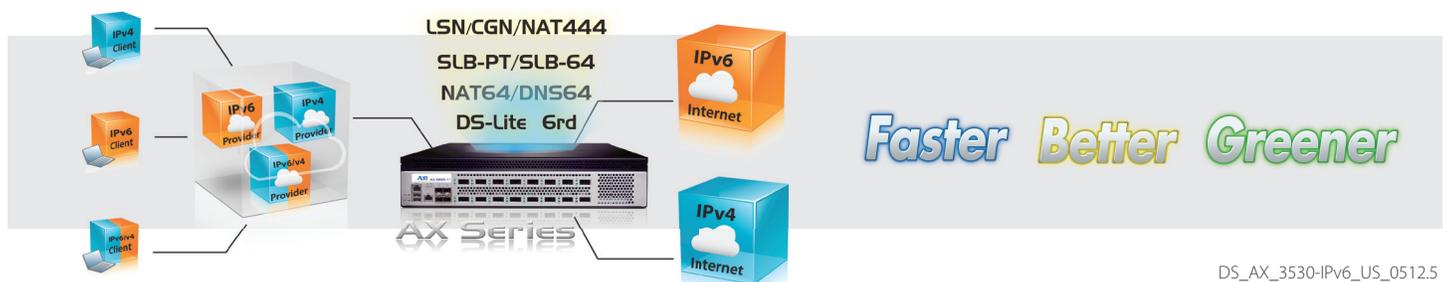
- Advanced hardware architecture
- Lights Out Management (LOM) with Intelligent Platform Management Interface (IPMI)
- Hot swap Redundant Power Supplies
- Hot swap smart fans
- Solid-state drive (SSD) and Compact Flash
- Error Correcting Code (ECC) memory
- 10 Gb ports



AX 3530 Hardware Summary

⁺ADC release available 2H 2012 | ⁺⁺Carrier IPv6 Migration release available today.

		AX 3530	
Processors	2 x Intel Xeon Sandy Bridge Octo-core (8 core)	Compact Flash	Yes
Memory	64 GB	Power Supply	Dual 750 W RPS included, 100 – 240 VAC, Frequency 50 – 60 Hz
Ethernet Interfaces	4 x 1 Gb Copper, 2 x 1 Gb Fiber (SFP) and 12 x 10 Gb Fiber (SFP+)	Max Power Consumption	467 W
Lights Out Management	1 Intelligent Platform Management Interface (IPMI)	Operating Temperature Range	0° – 40° C
Management Interface	1 Dedicated	Dimensions	1.75 in (H) x 17.25 in (W) x 22.8 in (D) 1U Rack Mountable
Console Port	1 Console Interface	Unit Weight	29.6 lbs
Solid-state Drive (SSD)	Yes	Regulatory Certification	FCC Class A, UL, CE, TUV, CB, VCCI
		Standard Warranty	90-day Hardware & Software



Faster Better Greener