



## APV6200 series Application Delivery Controllers improve the availability, performance and security of enterprise applications and Web sites while reducing cost and complexity in the data center.

These are the greenest 10 Gbps+ appliances designed for fast and intelligent acceleration of demanding enterprise applications and traffic aggregation necessary for large data centers, virtualization, cloud computing, service providers and multi-media services. Based on the patent-pending scalable architecture, SpeedCore™, the APV6200 series maintains high levels of performance with multiple, concurrent features enabled.

### ■ Breakthrough Scalability

The APV6200 series appliances are unique in their ability to provide scalability, performance flexibility, and stability to a wide range of high performance application delivery services. The appliances are based on scalable SpeedCore™ architecture that fully leverages the advancements in multi-core CPU technology and enables APV6200 series to handle the heaviest traffic loads at Layer 4-7, delivering unmatched performance, scalability and low TCO. The architecture takes the mature ArrayOS feature set to the new level.

### ■ Content Aware Intelligence

The sophisticated application intelligent appliances unlock application performance bottlenecks, reduces application complexity and provide seamless application integration in the consolidated data center. The agile appliances are capable of applying policy based application-fluent intelligence on mix of content types at Layers 4-7 for implementing application-specific productivity enhancing ADC solutions.

### ■ Enable Data Center Consolidation

Consolidate multiple applications and servers onto fewer virtualized server farms and deliver unmatched performance and scalability to applications with APV6200 series ADC's at the core of your network. APV6200 series supports thousands of virtual services and has the processing capability to maximize 10Gbps duplex traffic over a single interface.

### ■ Sophisticated SSL Processing

The appliances offer high levels of SSL performance, offloading heavy duty encryption from servers freeing up cycles to do application processing. Built-in advanced client authentication and the ability to process large CRL lists, and thousands of client certificates every second make APV6200 series the best security solution for large internet facing e-commerce and e-banking application delivery.

### ■ Application Acceleration

Increase web site throughput and capacity, reduce end user response times, and handle surge protection. Contain hardware and manageability costs by adding fewer servers. Better web performance translates into improved productivity and ROI. Adaptive content specific compression improves latency and reduces network bandwidth costs. The fast memory based caching and compression are optimized for small, dynamic, hot web content - making it the ideal platform for delivering Web 2.0 applications to millions of users.

### ■ Mature ADC Functions

The APV6200 series is a result of a decade of field experience solving complex application delivery problems for many of the Global 2000 companies. They run a rich feature set that includes Layer 4-7 traffic management and server load balancing, SSL acceleration and offloading, link and global server load balancing, compression, and QoS in a single device. The APV6200 is optimized for Web 2.0 applications, multi-media services and hosted cloud centric applications.

## Product Benefits

- First Green 10 Gbps+ ADC
- Industry leading L4 performance at 240K CPS
- Performance accelerator for a wide range of application traffic loads at Layers 4 - 7 helps reduce management, power and space costs
- Most complete high-availability solution, delivers 99.999% uptime
- Integrates local and global load balancing at Layer 2 - 7 with SSL acceleration, compression, caching, TCP optimization and stateful packet inspection in a single solution
- Dramatically improves the end-user experience by cutting response time by 50% or more
- Significantly reduces server overhead 40% or more by off-loading caching, connections, and SSL processing
- Hardened platform protects applications against network-based attacks without impacting performance
- Easy to configure and simple to manage and deploy

### ■ Best Value

Field proven at world's largest telecom, financial institutions and fortune 500 enterprises with uptimes in excess of several years. The 2U appliances offer the highest Layer 4-7 throughput per watt combined with the lowest cost per megabit of Layer 4-7 traffic processed and lowest cost per SSL transaction offloaded on the market. Consuming no more than 330 watts, the APV6200 is the first green ADC product available in the 10 Gbps+ class.

## Application Availability

### Layer 7 Server Load Balancing

- Maximizes traffic flow and performance with customizable layer policy
- Static, Default, Backup Policy
- Persistent Policy
  - URL, Hash URL, Insert/Rewrite Cookie
  - SIP and RTSP
  - SSL SID
- Content Routing
  - Hostname, URL, Cookie
  - Network, Clientport, RegEx
  - HTTP Header, SOAP
- URL redirect, Filetype, Hash URL
- Per virtual service proxy mode

### Layer 4 Server Load Balancing

- Intelligent routing maximizes balancing methods and increases performance
- TCP, TCPS, UDP protocols supported
- Round robin, weighted round robin, least connections, shortest response, persistent IP, Hash IP
- QoS Policy
  - Hostname, URL, Cookie
  - Network, Clientport, RegEx
  - HTTP Header, SOAP
- RADIUS, DNS servers
- Composite IP applications

### Advanced Content Routing

- Build Nested L7 policies
- Build Nested L4 policies
- Combine L4 and L7 policies

### Global Server Load Balancing

- Ensures performance for applications in a multitude of locations worldwide
- DNS DoS protection
- Global site/service selection
- Proximity and IP Persistence for nearest site for improved performance.
- Delivers local and global balancing for multi-site SSL VPN

## Layer 2 / 3 Load Balancing

- Firewall appliances
- Intrusion Prevention Systems (IPS) and Intrusion Detection Systems (IDS)

### Application Health Checks

- Single port and Multi-port
- Scripted request/response checks
- Custom application specific checks

### Link Traffic Shaping

- Link load balancing
- WAN Management
  - Policy based routing based on port, src/dest IP, protocols UDP, TCP
  - Return to sender (RTS)/IP Flow Persistence
  - Link aggregation
- Dynamic routing
- Traffic shaping QoS policies
- Bind link healthchecks
- Next hop GW and destination path health check

### Clustering

- Ensures availability and performance of applications with single point of management regardless of cluster size
- Active/active; active/standby
- Configuration synchronization
- Interoperability with BEA WebLogic Cluster
- Fast Failover

## Application Acceleration

### SpeedCore™ Architecture

- Multi Core Processing
- 64-bit OS
- 10Gbps plus load balancing throughput

## SSL Offloading and Acceleration

- Offloads HTTPS processing up to 90% while securing sensitive data
- High-performance hardware-based acceleration
- HTTPS, NNTPS, SMTPS, POPS, IMAPS, LDAPS
- SSL inside for end-to-end security
- Full certificate management features
- Share certificates across virtual services
- Process millions of CRL entries
- Customizable SSL error pages

## High-Performance Caching

- Memory-based DRAM cache reduces seek times by a factor of 1000x
- Fully-compliant with HTTP 1.1 Specs
- Cache filters and override policies
- Advanced cache validation, Purge policies
- Fully-compliant with HTTP 1.1 Specs

## TCP Acceleration

- Improves application performance 100x by off-loading TCP processing
- Connection multiplexing
- Connection pooling
- TCP Buffering
- Client connection persistence
- IEEE 802.3ad link aggregation

## Dynamic Compression

- Reduces response times an average of 75% for improved user experience
- Inclusion and Exclusion policies
- Java scripts
- HTML and XML
- Inline HTTP
- Cascading style sheets
- Popular Microsoft file formats (.DOC, .XLS, .PPT)
- PDF
- Hardware acceleration

## Security and Protection

### Server Security

- Full proxy-based firewall safeguard applications from network attacks
- TCP Syn-flood protection
- Surge protection
- Full DoS protection
- URL Filtering
- URL buffer overflow
- SQL injection protection

### Network Security

- Full stateful packet inspection firewall
- Over 1000 ACL rules without performance degradation

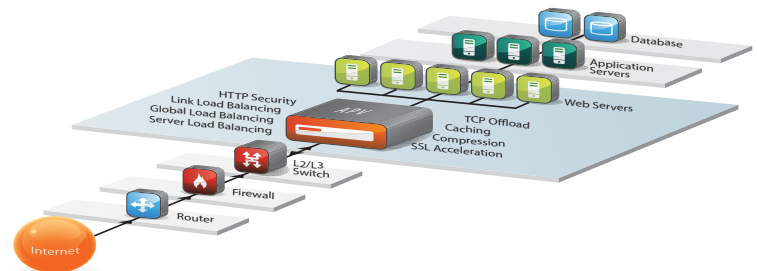
### Networking

- Static and port-based NAT translation for maximum flexibility and scalability
- VLAN, Trunking

## Ease of Use & Integration

- Complete, centralized management tools that simplify installation without compromising security or flexibility
- Quick start task flows
- Industry standard CLI Interface
- Secure SSH remote network management
- Single point for cluster management
- Secure WebUI access
- XML-RPC remote management support
- SNMP V2 / V3 and private MIBs
- Syslog (UDP or TCP)
- Simple initial setup support
- Administrator account management
- CLI command-based monitoring
- Notification/alerting system w/paging
- Multiple configuration support
- Multiple unit configuration synchronization support
- On-line troubleshooting support
- Real-time monitoring graphs support
- Log message manual

	APV6200
<b>System Throughput</b>	10 Gbps
<b>Memory</b>	8GB
<b>I/O Configuration</b>	Base : 4 x 10/100/1000 Optional: 4 x 1000 Base-SX 4 x 10/100/1000 <b>2 x 10G XF SR</b>
<b>Clustering</b>	32
<b>Form Factor</b>	2U
<b>Power Supply</b>	Dual



## Technical Specifications

Support	Bronze, Silver, Gold & Platinum Level Support Plans
Warranty	1 Year Hardware; 90 Day Software
Standards	10/100 Base-TX, 1000 Base-T, 1000 Base-SX, 10 Gig XF SR, IP, SSH, HTTP 1.0/1.1, SSL, SNMP
Management	SSH CLI, Direct Console CLI, SNMP, Single Console per Cluster, XML-RPC
Console port	Male DB9 Serial (RS232) Port
Dimensions	Standard 19" Rack Mountable APV 6200: 17" W X 23.5" D X 3.5" H or 2U
Weight	APV 6200: 28lbs
Environmental	Operating Temperature: 0° to 40°C Humidity: 0% to 90%, Non-condensing Power 6200: 100-240VAC; 5A; 47-63 Hz, Full Range Input
Regulatory compliance	The equipments described are declared to be in conformity with the applicable national and international standards, when tested in a representative chassis. The conformity is valid ONLY when the equipment is used in a manner consistent with manufacturer's recommendations and reference documents. IEC 60950-1, LU/CSA 60950-1, EN 60950-1, ICES-003, EN 55024, CISPR 22, AS/NZS 3548, FCC, 47FR part 15 Class A, VCCI-A
Safety	CSA, C/US, CE, UL EMC Testing: Bay Area Compliance Laboratories Corporation, 1274 Anvilwood Avenue, Sunnyvale, CA 94089 CB report issued by: CSA International, 13799 Commerce Parkway, Richmond, BC, Canada.

### APV6200



## Array Networks

