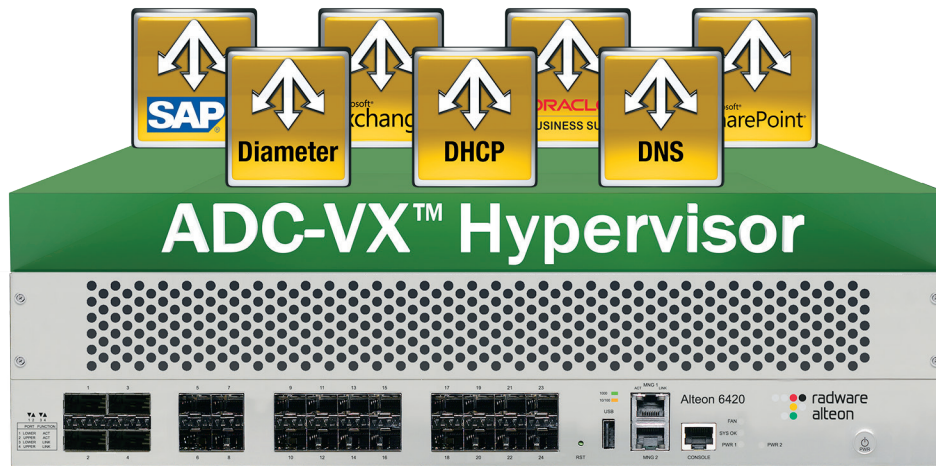


## Carrier Grade, High Capacity Application Delivery Platform



Alteon 6420 and 8420 are next-generation, carrier-grade application delivery controllers (ADC) providing superior performance coupled with advanced capabilities such as ADC virtualization, integrated application acceleration and on-demand scalability needed to effectively meet mobile carrier and large enterprise data center and network needs. Featuring high-speed Layer 4-7 proxy, Alteon 6420 and 8420 perform as an Application-Provider Edge (Application-PE), providing up to 160 Gbps of application delivery capacity in a slim 2U form factor. With up to 100 virtual ADC (vADC) instances and a load of 40GE and 10GE ports it delivers unparalleled scalability, availability, agility and performance.

### Breakthrough Performance Delivering Best Quality of Experience

Carriers and Internet service providers have experienced a significant increase in Internet, video and mobile data traffic. Alteon 6420 & 8420 are designed to meet these challenging capacity growths while delivering significant business benefits for carriers, cloud providers, mobile data mega-pops, Internet service providers and large enterprise data centers that require a high-end ADC solution.

Powered by a state-of-the-art, custom-designed hardware platform, Alteon 6420 & 8420 ensure the best user experience and fastest response time for mission-critical applications, resulting in effective, continuous business operations. Alteon 6420 & 8420 platforms provide scalable throughput of up to 80Gbps and 160Gbps capacity respectively, while delivering breakthrough performance<sup>1</sup> including 1.4M/3.3M Layer 4 connections per second, 1.7M/4.5M Layer 7 requests per second and 78K/99K SSL (2K bit keys) connections per second, respectively. To distribute this performance, Alteon 6420 & 8420 provide an exceptional connectivity capacity through its four 40GE ports and its 20 10GE ports.

<sup>1</sup> The performance figures are subject to change

## **Application-Provider Edge (Application-PE)**

Alteon 6420 & 8420 serve as an Application-Provider Edge (Application-PE), an application level demarcation point in the mobile control and data plane frameworks. It provides state of the art transparent traffic steering based on mobile payload, headers, AAA and other policy enforcement interfaces, including header modification capabilities to support various mobile use cases. In addition, it load balances both the control and data plane protocols, and enables mobile service customization through AppShape++ policy scripting.

To provide the best mobile quality of experience, Alteon 6420 & 8420 deliver mobile service optimization including transport-layer optimization and content acceleration accompanied with Application Performance Monitoring (APM) for complete visibility.

## **Alteon NG: Complete Application SLA Assurance**

The Alteon next-generation (NG) ADC solution is the industry's only ADC built from the ground up to ensure application SLA at all times. It leverages several next-generation services that are not available in any other ADC on the market.

- Architecturally designed to ensure application SLA by delivering full resource isolation between different applications while eliminating resources from being maxed out.
- Application performance monitoring (APM) provides full visibility into application SLA that can be broken down by application, transaction or location.
- Integrated FastView, the industry's most advanced web performance optimization (WPO) technology, accelerates application response for higher conversion rates, revenues and productivity.
- Part of a unique attack mitigation architecture, allowing accurate detection and mitigation of the most advanced cyber attacks.

## **Carrier-Grade Reliability**

Alteon 6420 & 8420 deliver carrier-grade reliability required by the most demanding carrier environments. It features reliable, custom made hardware coupled with embedded components that provide high MTBF with two AC/DC load sharing and hot-swappable power supplies with front to back cooling. It is NEBS 3 compliant, meeting the strictest regulations, and is certified by the most up-to-date hardware and networking standards.

## **Powered by Alteon OS**

Alteon 6420 & 8420 utilize the latest Alteon OS, enabling you to leverage its solid, powerful capabilities including server offloading and application acceleration through SSL termination, smart caching and compression, integrated APM module and AppShape™++ ADC scripting. In addition, Alteon 6420 & 8420 work in conjunction with APSolute Vision providing AppShape™ technology for simplified application life cycle management, as well as end-to-end ADC infrastructure and application visibility. As a result, you can immediately enjoy cutting-edge features combined with Alteon's renowned ease of operation and stability to reduce operational hassle and costs.

## **ADC Virtualization with ADC-VX™**

Running the Alteon OS firmware, Alteon 6420 & 8420 also supports the ADC-VX capabilities, the industry's first ADC hypervisor built on a unique architecture that virtualizes the resources of the Alteon Application Switch. It allows up to 24/100 virtual ADC (vADC) instances running on the same, consolidated platform with full instance isolation. This unique industry capability is achieved through complete resource virtualization and reservation including CPU, memory, network and acceleration resources. This specialized hypervisor runs fully-functional virtual ADC instances each delivering full ADC functionality similar to a dedicated physical Alteon device. Each virtual ADC instance contains a complete and separate environment of resources, configurations and management.

ADC-VX is designed from the ground up to enable organizations to consolidate their ADC hardware devices without compromising resiliency or performance predictability of their ADC services – resulting in significant savings of hardware costs and operational expenses. Additionally, ADC-VX provides the agility and the simplicity that is required in the virtualized data center, driving faster deployment of new services and better alignment of ADC services with frequent configuration changes. To learn more about ADC-VX, please visit the [ADC-VX page](#).

## **Intelligently Embedding Radware's 'OnDemand' Infrastructure Approach**

By embracing Radware's OnDemand approach, Alteon 6420 allows you to only pay for the exact capacity currently required by your network, which prevents overspending on the initial solution. Additional throughput capacity, acceleration capabilities, application-aware services and more vADC instances can be added on demand to meet new business requirements – through simple software license insertion and with no forklift upgrade of the device and no service

interruption. The OnDemand approach enables you to overcome capacity planning challenges and reduces the risk associated with data center growth while providing the best investment protection, as capacity, virtual ADC instances and services can be added when needed.

### 5-Year Longevity Guarantee Coupled with World-Class Support

Radware exclusively provides Alteon 6420 & 8420 customers with a 5-year platform longevity guarantee. This enables extending the application delivery project lifetime, which directly translates into reduced TCO and higher ROI.

Technical Specifications		
Feature	Alteon 6420	Alteon 8420
Available Throughput Licenses	30Gbps, 40Gbps and 80Gbps scalable throughput licenses	100 and 160Gbps scalable throughput licenses
ADC-VX specialized ADC Hypervisor	Yes, up to 48 virtual ADC instances	Yes, up to 100 virtual ADC instances
Layer 4 connections per second	1.4M CPS	3.3M CPS
Layer 7 requests per seconds	1.7M	4.5M RPS
SSL connections per second, 2K keys (Std/XL/Extreme)	2K/33k/78K	4K/34K/97K
SSL throughput, 2K keys (Std/XL/Extreme)	6/15/15Gbps	9/45/45Gbps
Compression	15Gbps	40Gbps
Routing Protocols	OSPF, RIP, RIP II, BGP, OSPFv3	
Processor	Two Intel octa-core CPUs	Two Intel 10-core CPUs
Memory	32GB up to 64GB	128Gbps up to 256B
Traffic Ports	4 x 40GbE QSFP+ and 20 x 10GbE SFP+	
Pluggable Optics Operating Distance	SFP+ports' pluggable modules/interfaces: - Short reach SFP+, 10GBASE-SR - Long read SFP+, 10GBASE-LR - Short reach SFP+, 1000BASE-SX - Long reach SFP, 1000BASE-LX - 1 Gbps Pluggable Copper 1000BASET QSP port's pluggable modules/interfaces: - Short reach QSFP, 40GBASE-SR4Long reach QSFP, 40GBASE-LR4	
USB Port	Yes	
RS-232C Console	RJ-45 Serial Connection	
Power	Auto-range power supply (80 plus certified): AC: 100-240 V, 47-63 Hz DC: -42~-72 V Power consumption: 600W/Heat dissipation: 2050BTU Dual AC/DC power supply	
Heat dissipation	2050 BTU/h	
Dimensions	2U: Width: 426 mm (17 in) x Height: 88 mm (3.4 in) x Depth: 537 mm (21 in) EIA Rack or Standalone: 482 mm (19 in)	2U: Width: 426 mm (17 in) x Height: 88 mm (3.4 in) x Depth: 537 mm (21 in) EIA Rack or Standalone: 482 mm (19 in)
Weight (Std/XL/Extreme)	Weight (Dual Power Supply) Alteon 6420: 14.25 kg (31.63 lbs) Alteon 6420-XL: 14.85 kg (32.72 lbs) Alteon 6420-Extreme: 15.85 Kg (34.95 lbs)	Weight (Dual Power Supply) Alteon 8420: 14.35 Kg (31.63 lbs) Alteon 8420-XL: 14.85 Kg (32.72 lbs) Alteon 8420-Extreme: 15.85 Kg (34.95 lbs)
Environmental	Operating temperature: 5-55 °C (41-150 °F), Humidity: 10% to 95% non-condensing	
Certifications	Safety: EN 60950-1:2006, CB - IEC 60950-1, CCC, cTUVus EMC: EN 55022, EN 55024, EN 61000-3-2 , EN 61000-3-3 , IEC 61000 4-2 to 4-6, IEC 61000 4-8 & IEC 61000-4-11, FCC Part 15B Class A, ICES-003, VCCI, C-Tick RoHS 6 Compliant	

## **About Radware**

Radware (NASDAQ: RDWR), is a global leader of application delivery and application security solutions for virtual and cloud data centers. Its award-winning solutions portfolio delivers full resilience for business-critical applications, maximum IT efficiency, and complete business agility. Radware's solutions empower more than 10,000 enterprise and carrier customers worldwide to adapt to market challenges quickly, maintain business continuity and achieve maximum productivity while keeping costs down. For more information, please visit [www.radware.com](http://www.radware.com).

Radware encourages you to join our community and follow us on [LinkedIn](#), [Radware Blog](#), [Twitter](#), [YouTube](#) and the [Radware Connect app](#) for iPhone®.

## **Certainty Support**

Radware offers technical support for all of its products through the Certainty Support Program. Each level of the Certainty Support Program consists of four elements: phone support, software updates, hardware maintenance, and on-site support. Radware also has dedicated engineering staff that can assist customers on a professional services basis for advanced project deployments.

## **Learn More**

To learn more about how Radware's integrated application delivery & security solutions can enable you to get the most of your business and IT investments, email us at [info@radware.com](mailto:info@radware.com) or go to [www.radware.com](http://www.radware.com).