

## Alteon's Power Keeps Growing Stronger:

*Introducing Faster, More Scalable Alteon 4408 & 4416 Application Switches*



With the new Alteon 4408 and 4416 from Radware, the entire renowned Alteon Application Switch product line is now revitalized! Featuring new, cutting-edge 0-4Gbps hardware platforms and delivering stronger performance, the new Alteon 4408 and 4416 provide breakthrough performance coupled with on demand scalability in throughput and services - resulting in the lowest TCO on the market.

### **Next-Generation 0-4Gbps On-demand Alteon Application Switch Platforms preserving the full Alteon OS capabilities**

The new Alteon 4408 and 4416 are next-generation platforms that utilize the same Alteon OS. This means there are no learning curves – related to operations scripts, CLI, integration to environment, network topology considerations – so that you can immediately enjoy the same renowned ease of operation and stability, while obtaining new benefits! This means that whether you've been using the Alteon 2208, 2216, 2424 or 3408 – you can agilely obtain the same business benefits – only that they will be much more powerful!

Both models deliver up to 4Gbps of scalable throughput capacity with high-port density, where the Alteon 4416 delivers four Gigabit Fiber and twelve Gigabit Ethernet ports, and the Alteon 4408 delivers two Gigabit Fiber and six Gigabit Ethernet ports.

#### **And It's Application Acceleration Ready**

The Alteon 4408 and 4416 are application acceleration ready, which means that by the time we release the next application acceleration Alteon OS version – you **continue to use the same hardware** and benefit from advanced application acceleration services, such as Server SSL offloading, TCP Multiplexing and Caching.

## Breakthrough Performance delivering best QoE by Leveraging Alteon's Renowned VMA Technology and Radware's state-of-the-art hardware platforms

Powered by a state-of-the-art, custom-designed hardware platforms, the Alteon 4408 and 4416 ensure the best user experience and fastest response time for your mission-critical applications, resulting in effective, continuous business operation. Extending throughput capacity by up to 4 Gbps, the Alteon 4408 and 4416 delivers breakthrough performance including 215K Layer 4 and 135K Layer 7 Transactions per Second and the fastest response time – in any throughput level model you choose!

The beating heart of the Alteon 4408 & 4416 is the Virtual Matrix Architecture (VMA), a one-of-a-kind technology which unleashes the power of Alteon's next-generation proprietary platforms. VMA is a fast, robust, and flexible architecture that leverages the entire system's capacity while providing the parallel performance of distributed processing.

## Intelligently Embedding Radware's 'On Demand' Infrastructure Approach

By embracing Radware's "Pay-as-you-Grow" approach, you **only pay for the exact capacity currently required** and prevent over-spending on the initial solution. Throughput capacity as well as application-aware services can be added **on demand** to meet new business requirements – with no forklift upgrade of the device and without even restarting it. The "Pay-as-you-Grow" approach enables you to overcome capacity planning challenges and reduces the risk associated with data center growth for best investment protection. Thanks to platform standardization and simplicity, there is one platform to cover all of your application needs resulting in fewer spare parts, and less training and operations, to dramatically reduce OPEX.

## 5-Year Longevity Guarantee coupled with World-class Support

Radware exclusively provides Alteon 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.

## Alteon Application Switch delivers the Lowest TCO on the market!

Thanks to the minimal operational, training and deployment costs of upgrading to Alteon Series 4-5, coupled with Radware's 'pay-as-you-grow' approach plus the 5-year longevity guarantee – you simply get an unbeatable TCO for Alteon products.

## Additional Benefits

### » Carrier-Grade Reliability

The new Alteon 4408 and 4416 platforms deliver carrier-grade reliability required by the most demanding carrier application environments. It features reliable, custom-made hardware coupled with embedded components providing high MTBF and dual AC/DC power supply configurations. It is NEBS ready, complies with the strictest regulations, and is certified by the most up-to-date hardware and networking standards.

### » Guaranteed Availability & Secured Management

The Alteon 4416 provides continuous guaranteed availability of remote management even under extreme utilization conditions. As the two redundant management ports use a separate, out-of-band management data path, the management traffic is not affected by the data traffic. For enhanced security, the management ports are isolated from the traffic ports. Moreover, the management ports can work in redundant mode for high availability<sup>1</sup>.

### » Enhanced Configuration

The Alteon's 4408 and 4416 front-panel USB port allows for easy installation, recovery and upgrade of the software as well as configuration back-up for enhanced management. The 4416 also features a convenient LCD Panel for display of key performance statistics.

<sup>1</sup> Available in 4416, and can be configured in the 4408 via software configuration

## Technical Specifications

Features	Alteon 4408	Alteon 4416
Available Throughput Licenses	500 Mbps, 1 Gbps, 2 Gbps and 4 Gbps scalable throughput licenses	1 Gbps, 2 Gbps and 4 Gbps scalable throughput licenses
Routing Protocols	OSPF, RIP, RIP II, BGP	
Processor	Intel Core 2 quad-core 2.6GHz	AMD Shanghai quad-core 2.5 GHz
Memory	Up to 8GB	Up to 12GB
Gigabit/GBIC Ports	2 x Gigabit Fiber Ports 6 x Gigabit Ethernet Ports	4 x Gigabit Fiber Ports 12 x Gigabit Ethernet Ports
1000Base-SX/LX/ZX Ports	All Gigabit Fiber ports deliver SX/LX/ZX interfaces depending on GBIC	
1000Base-SX (850 nm) Operating Distance	<ul style="list-style-type: none"> <li>62.5 micron MM fiber .2 m to 275 m</li> <li>50 micron MM fiber .2 m to 550 m</li> </ul>	
1000Base-LX/ZX Operating Distance	<ul style="list-style-type: none"> <li>LX: Up to 10 km (6.2 mi)</li> <li>ZX: Up to 80 km (49.7 mi)</li> </ul>	
USB Port	Yes	
LCD Screen	No	Yes
RS-232C Console	RJ-45 Serial Connection	<ul style="list-style-type: none"> <li>DB-9 serial connection</li> <li>Female DCE interface</li> </ul>
Dimensions	1U: <ul style="list-style-type: none"> <li>Width: 424 mm (17 in)</li> <li>Depth: 457 mm (18 in)</li> <li>Height: 44 mm (1.7 in)</li> </ul> EIA Rack or Standalone: 482 mm (19 in)	1U: <ul style="list-style-type: none"> <li>Width: 424 mm (17 in)</li> <li>Depth: 600 mm (24 in)</li> <li>Height: 44 mm (1.7 in)</li> </ul> 2U: <ul style="list-style-type: none"> <li>Width: 424 mm (17 in)</li> <li>Depth: 600 mm (24 in)</li> <li>Height: 88 mm (3.4 in)</li> </ul> EIA Rack or Standalone: 482 mm (19 in)
Weight	7.66 kg (16.8 lbs)	1U: 9.1 kg (20 lbs) 2U: 10.66 kg (23.5 lbs)
Environmental	<ul style="list-style-type: none"> <li>Operating temperature: 0-40 °C (32-104 °F)</li> <li>Humidity: 5% to 95% non-condensing</li> </ul>	
Power	<ul style="list-style-type: none"> <li>Auto-range supply:               <ul style="list-style-type: none"> <li>AC: 100-240V, 47-63 Hz</li> <li>DC: -36~-72V</li> </ul> </li> <li>Power consumption: 168W</li> <li>Heat dissipation: 573 BTU/h</li> <li>Single or Dual power supply</li> </ul>	<ul style="list-style-type: none"> <li>Auto-range supply:               <ul style="list-style-type: none"> <li>AC: 100-240V, 47-63 Hz</li> <li>DC: -36~-72V</li> </ul> </li> <li>Power consumption: 270W</li> <li>Heat dissipation: 921 BTU/h</li> <li>Dual power supply (AC/DC) in 2U form</li> </ul>
Certifications	<ul style="list-style-type: none"> <li>Safety: EN 60950-1:2006, CB - IEC 60950-1, CCC, cTUVus – cULus</li> <li>EMC: EN 55022, EN 55024, EN 61000-3-2 , EN 61000-3-3 , IEC 61000 4-2 to 4-6 , IEC 61000 4-8 &amp; IEC 61000-4-11, FCC Part 15B Class A, ICES-003, VCCI, C-Tick</li> <li>RoHS 6 Compliant</li> </ul>	

## About Radware

Radware, the global leader in integrated application delivery solutions, assures the complete availability, performance and security of business-critical applications for nearly 10,000 enterprises and carriers worldwide. With Radware's comprehensive and award-winning suite of products, companies can drive business productivity, improve profitability, and reduce IT operating and infrastructure costs by making their networks "business-smart."

## 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 Radware Alteon application delivery products please visit us at [www.radwarealteon.com](http://www.radwarealteon.com). For information regarding Radware's entire portfolio of application delivery and network security products for business-smart networking, please visit [www.radware.com](http://www.radware.com).