Technology Overview Content Acceleration

The SuperLumin Advantage

The ability to access Web content goes both ways in the business world. Your employees need to access information from the network in order to do their jobs efficiently, and your Website must quickly deliver content to keep customers satisfied and revenue potential high. SuperLumin accommodates multi-directional demands for content through two powerful configurations: Web Access Acceleration and Website Acceleration. Both setups turbo-charge your IT infrastructure and ultimately expedite two-way content delivery.

1 - Web/Cloud content stored in CA
(Content can be downloaded or as requested)

2 - Web/Cloud content served to all devices at high speed.

Router

Event Floor

Sessions

Content Accelerator

SuperLumin Key Benefits

Increase User Satisfaction and Retention

Provide a faster, richer quality of experience for visitors to your Website.

Improve Employee Productivity

Boost the performance of your intranet and extranet to enhance access to corporate data and Web content.

Reduce IT Expenditures

Optimize bandwidth use for reduced costs and leverage your existing Internet infrastructure to scale without adding costly Web servers and IT resources.
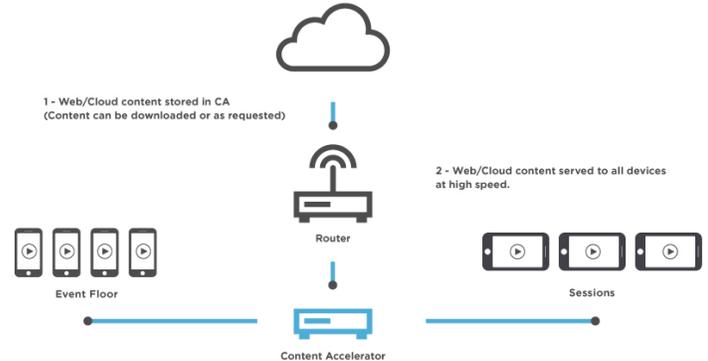
Web Access Acceleration

SuperLumin leverages client acceleration to speed access to the Internet or your private network, thereby placing content closer to end users and serving frequently requested content from local cache. The result? Dramatically faster content delivery than the origin server could provide for the same content requests.
SuperLumin's superior performance and scalability significantly improves Internet access performance and eliminates redundant Web traffic, enabling your end users to access corporate and Internet data at speeds never before imagined—and without fatter pipes.

How Fast is Fast

When accelerating content to your Web browsers, SuperLumin:
Serves up to 35 to 90 percent of requests directly from cache
Responds to 18,000 requests per second
Serves content requests from cache in 1 to 2 milliseconds
Handles 10 Gigabit per second

SuperLumin provides web acceleration via both forward and transparent modes. Transparent caching is provided through three different methods, Inline Pass-Through, WCCP and L4 Switch. By providing native support for transparent proxy, SuperLumin enables organizations to enjoy the benefits of Web browser acceleration without the hassle of configuring each client browser to use a proxy server.

Website Acceleration

In addition to accelerating content between end users and the Internet, SuperLumin can also accelerate web servers. SuperLumin simply intercepts inbound requests to your Web server—rapidly serving frequently requested content from cache and offloading the burden from your origin server, allowing your web server to do its mission critical operations. This reverse proxy configuration, which places SuperLumin at the first foot of the Internet, remarkably enhances both performance and scalability.

SuperLumin delivers the best response times and the highest throughput available, so visitors to your site have no-wait access to all the rich content they want.

In speeding your website content to users, SuperLumin:

- Handles 90,000 requests per second—4 to 10 times faster than a typical Web server
- Supports 1,000,000 TCP sessions—30 times the load of an average Web server
- Offloads up to 95 percent of object serving and all TCP connection overhead

Cache in on the Web Opportunity

In head-to-head comparisons, SuperLumin outperforms the competition in both price/performance ratios and throughput. But SuperLumin goes beyond other solutions in addressing the real business needs of enterprises and service providers today.

Implement SuperLumin and you gain the power to:

Increase User Satisfaction and Retention
SuperLumin gives you the ability to attract and retain customers by creating a rich, highly responsive Web experience for all site visitors—so potential revenues don't go to the competition.

- Improve response times for customers
- Eliminate delays and refused connections
- Provide faster, richer quality of experience for Website visitors

Improve Employee Productivity
SuperLumin allows your employees to access frequently used content from the local network. As a result, your staff members can concentrate on doing their jobs—and not on waiting for content from the Internet or corporate intranet.

- Enhance access to corporate data and Web content
- Improve employee productivity by eliminating long Internet waits
- Filter unproductive content and prioritize business-critical traffic

In addition, SuperLumin's filtering capabilities give you control over which content may be accessed and stored, focusing network resources on content with business value. For those who want to block undesirable content completely, SuperLumin has also partnered with the industry's leading filtering software vendors to integrate robust content-filtering capabilities with the SuperLumin platform.

Reduce IT Expenditures

Do more with less. With SuperLumin, enterprises see an immediate drop in the amount of bandwidth necessary to deliver the same level of Web content to users. How large a drop? According to SuperLumin customers, the bandwidth savings and ROI from SuperLumin can be so significant, that the product pays for itself in mere months.

In addition, SuperLumin economically increases Website scalability. Because it plugs seamlessly into existing Web environments, SuperLumin lets you leverage your current infrastructure investments to serve more content to more users—faster. In fact, a single SuperLumin license can take the place of ten Web servers—so your business can grow without demanding a proportional investment in additional severs or fatter pipes.

Content Acceleration Engine	Usage	Usage	Storage	Ethernet	RAM	Form Factor
CA-Micro	Small Office	Up to 100	Up to 2TB	Single NIC	4GB	Compact
CA-Mini	Small Office	Up to 750	1TB +	Single NIC	4GB +	Compact
CA-2100	Medium Office	Up to 3000	1TB +	2XGbE NIC	4GB +	19" 1U
CA-2250	Large Office	Up to 7500	1TB +	2XGbE NIC +	4GB +	19" 1U
CA-3500	Medium Enterprise	Up to 20,000	6TB +	2XGbE NIC +	16GB +	19" 2U
CA-3850	Large Enterprise	Up to 50,000	12TB +	2XGbE NIC +	32GB +	19" 2U

Advanced Modules
- Advanced Video
- Secure Cache
- Security
- Content Filtering
- Access Control
- Authentication
- VPN/ Firewall
- DNS Services
- Monitoring & Reporting
- Centralized Management
- Content Delivery

As the global economy shifts into high gear, businesses must keep pace if they want to compete successfully. SuperLumin gives you the robust, extensible content networking platform you need to turn rapid data transfer into business benefits on the bottom line. Implement SuperLumin, and you'll not only manage future growth—you'll drive it.