

Sun Fire™ B10p SSL Proxy Blade



Enterprise-class SSL Transaction Rates.

Key Highlights

- Up to 4000 SSL transactions/sec
- Up to 300 Mbps bulk encryption throughput
- Helps enable the seamless integration of SSL encryption functions into the Sun Fire™ B1600 Blade Platform to optimize secure transactions, resource utilization, and application availability
- Provides a flexible, modular architecture that easily scales from a single chassis to across multiple racks of servers
- Delivers a high-performance, custom hardware solution that encrypts and decrypts SSL transactions tens of times faster than CPU-based SSL processing
- Supports direct server-to-client response for faster transaction processing and increased traffic handling capacity for the system
- Offers high availability through hot-swap and hot-plug features, dual Gigabit Ethernet connections, dual power rails, and support for server, link and blade failover
- Designed to offer easy installation and simplified, centralized system management through Sun's N1 architecture for next-generation data center administration

Why Not?

Increase Both Your Secure Application Performance and Your Bottom Line.

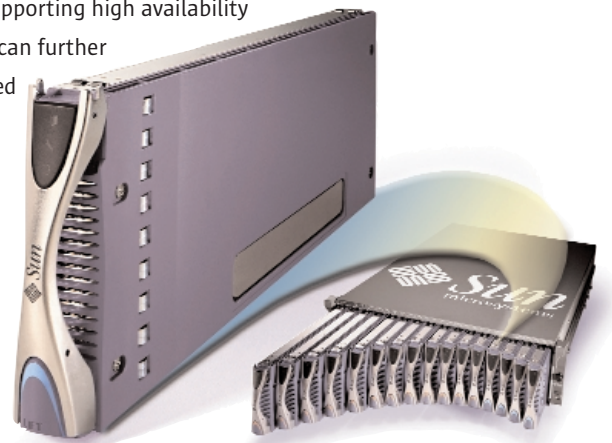
Organizations that handle moderate to high levels of secure transactions, such as online merchants, financial institutions, and Web hosting companies, demand exceptionally fast SSL processing. The Sun Fire™ B10p SSL Proxy Blade is designed to deliver just what you need. By offloading SSL decryption and encryption tasks from system processors, this specialty blade can significantly increase the performance and availability of your secure applications at a low cost.

The Sun Fire B10p SSL Proxy Blade helps enable you to virtually seamlessly integrate accelerated SSL capabilities into the Sun Fire B1600 Blade Platform. Designed specifically to optimize SSL processing, these custom hardware specialty blades can process SSL transactions tens of times faster than CPU-based SSL processing. At the same time, the Sun Fire B10p SSL Proxy Blade can increase platform utilization by freeing system processors to complete other tasks, helping you to maximize resource use and lower costs.

Support for direct proxy-to-client response eliminates signal response back through the Sun Fire B10n Content Load Balancing Blade, further sharpening your performance edge. Tamper-proof, centralized storage of security keys and certificates also delivers higher levels of security and ease of management.

The Sun Fire B10p SSL Proxy Blade plugs directly into the Sun Fire B1600 Blade System chassis, providing a tightly integrated, fully tested solution architecture that is easy to install and manage. Hot-plug and hot-swap features enable you to dynamically add or remove resources, helping you to control costs while supporting high availability and scalability. A unified framework can further reduce your costs by providing simplified system management through Sun's N1 architecture for next-generation data center administration that is easy to install and manage.

Why Not? Use the Sun Fire B10p SSL Proxy Blade to help increase your performance, availability, and resource utilization.



Sun Fire™ B10p SSL Proxy Blade Features and Benefits

Key Features

- Integrated design for optimized performance on the Sun Fire™ B1600 Blade Platform
- Custom hardware-based SSL processing and proxy blade
- Direct proxy-to-client response for faster response time
- Redundant link and blade failover capabilities
- Command line interface (CLI) and SNMP support
- Tamper-proof key and certificate protection
- Centralized key and certificate administration
- Support for industry standard crypto algorithms
- RSA keys: 512, 1024, 2048 bits

High-End Performance for Less

- Up to 4000 SSL transactions/sec
- Up to 300 Mbps bulk encryption
- 64,000 concurrent sessions
- Dual gigabit Ethernet connectivity
- Custom hardware-based solution helps enable high levels of performance at a lower cost
- Direct proxy-to-client response will eliminate additional hops through the load balancer for faster processing
- Increased utilization of compute resources helps to lower costs

Virtually Seamless, Cost-Efficient Integration

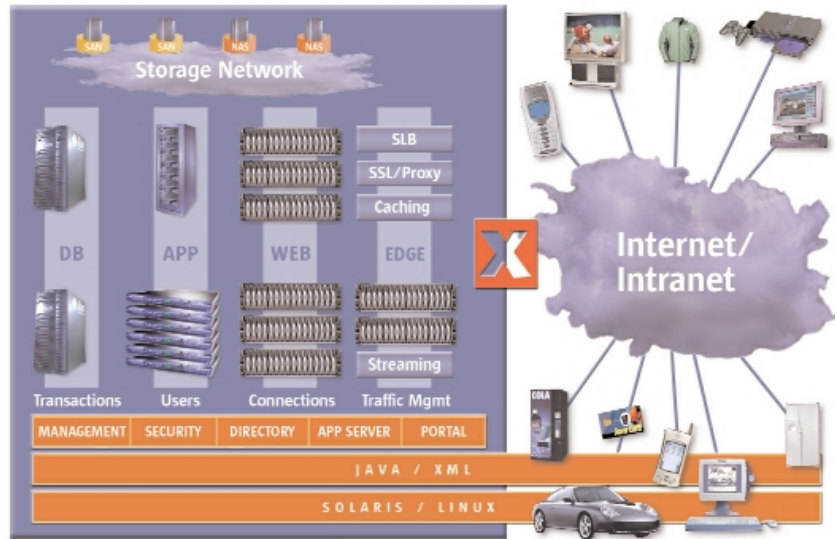
- Fully tested, tightly integrated solution for the Sun Fire B1600 Blade Platform increases reliability and helps to lower costs
- Simplified management helps lower total cost of ownership
- Eliminating cabling helps lower total cost of ownership
- The flexible, modular blade architecture provides a platform where resources can be added or removed dynamically

Highly Available Services

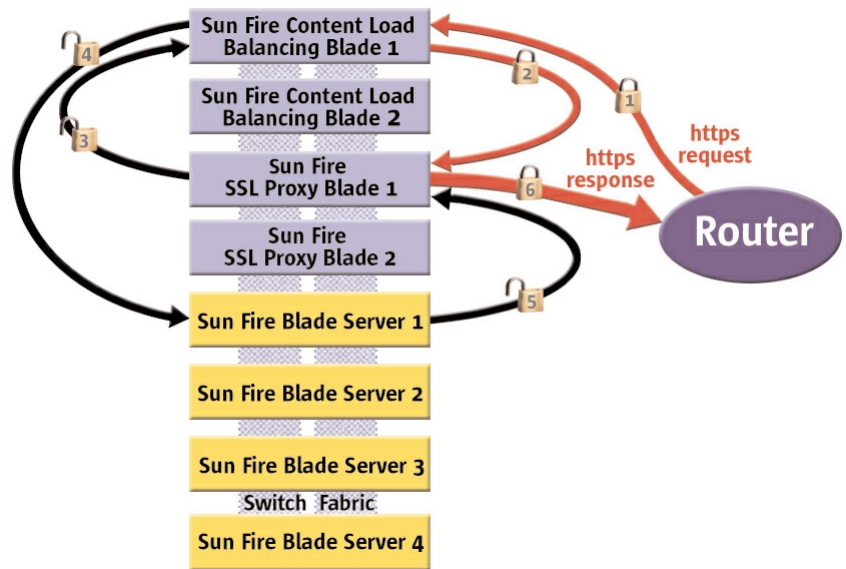
- Supports server, blade and link failover, thus virtually eliminating single points of failure when combined with Sun Fire B10n Content Load Balancing Blade
- Hot-swap and hot-plug capabilities support the removal and replacement of blades while the system is operating for maximum uptime

System Requirements

- Sun Fire B1600 Blade System chassis
- Sun Fire B10n Content Load Balancing Blade
- Hardware Supported:
 - (SPARC) Sun Fire B100s Blade servers
 - (x86) Sun Fire B100x and B200x Blade servers



General-Purpose Blades in the Web Tier and Specialty Blades at the Edge of the Network Increase Performance in Sun's End-to-End Architecture



Direct Proxy-to-Client Response

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