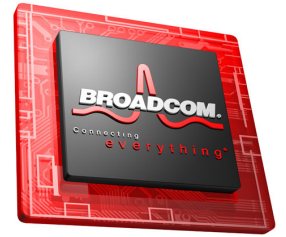




BCM800 PRODUCT Brief



CryptoNetX™ SSL800 ACCELERATOR ADAPTER

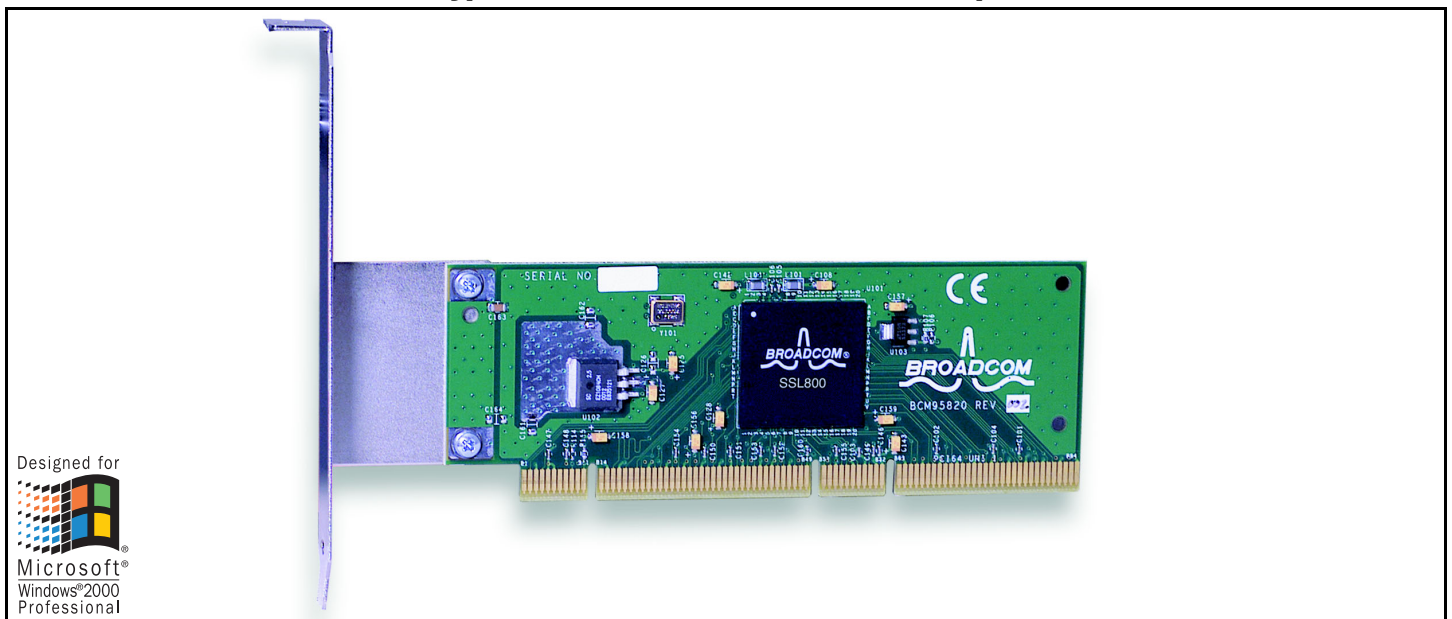
FEATURES

- Fully qualified and tested drivers supporting major operating systems and web servers
- Diagnostic software to assist in problem determination
- Regulatory standards certification
 - U/L 94V-0 flammability
 - FCC CFR47, part 15 – Class B
 - BSMI– Taiwan EMC/CISPR22
 - CE compatibility
 - CISPR22
 - EN 6100-4-11
- Retail export classification
- High performance public-key setup and acceleration
 - 800 1024-bit RSA private key signings per second
 - HW support for 2048-bit keys
 - Extensive support for all SSL and TLS modes
- Optimized prefetching PCI interface
 - Full performance maintained independent of any reasonable PCI latency
 - PCI 2.2 interface, 32/64 bits
- Driver/software compatibility across SSL product family

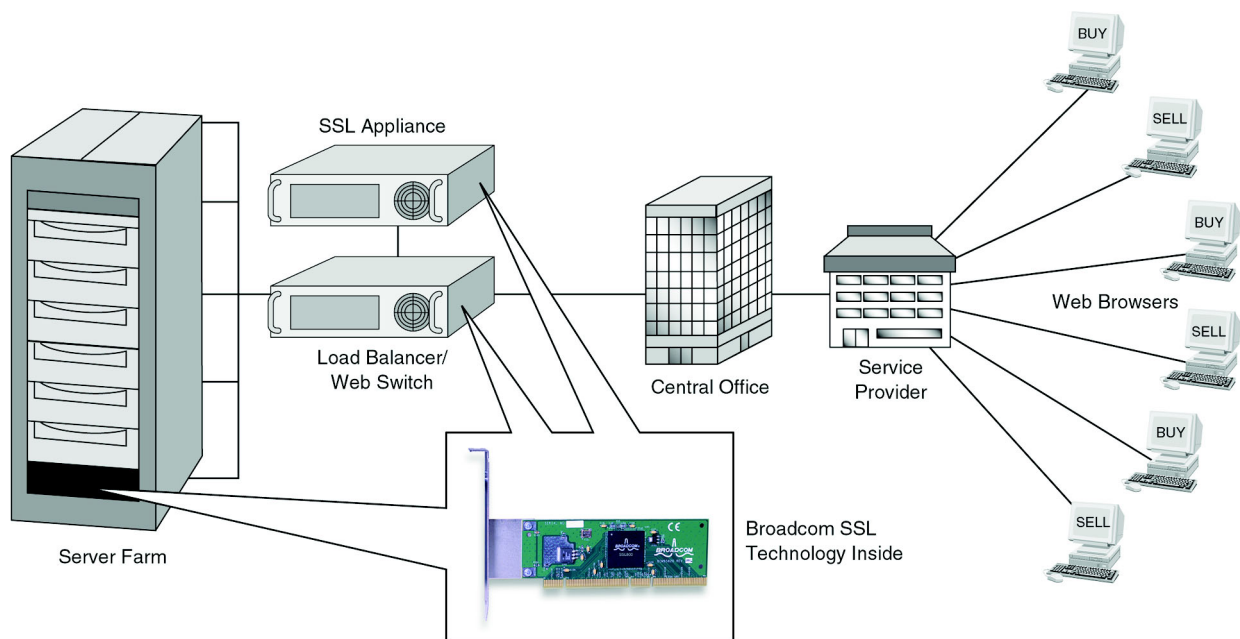
SUMMARY OF BENEFITS

- Reduces the delay associated with SSL handshake and processing and vastly improves the speed at which web pages can be served.
 - Accelerates SSL protocol used in all web browsers.
 - Standard in Internet Explorer and Netscape® Navigator.
 - Uses RSA encryption for compute-intensive operations.
- Includes extensive software and systems support for popular operating systems and web servers.
- HTML user manual and installation documentation in various languages allow for trouble-free installation and setup for end users.
- High-performance SSL solution addresses security deployments in high-bandwidth applications:
 - E-commerce servers
 - Server load balancers
 - Web switches
 - SSL appliances
- Upgradeable/interchangeable within Broadcom's SSL product family.

CryptoNetX™ SSL800 Accelerator Adapter



OVERVIEW



Broadcom's **SSL800** accelerator adapter is a complete high-performance SSL accelerator designed to accelerate the public-key cryptographic functions of SSL, thereby freeing the host CPU. This results in a dramatic improvement in the overall performance of the host system, drastically reducing CPU utilization and enabling additional CPU bandwidth for other value-added services and features.

The **SSL800**'s PCI interface makes it a perfect solution for all cost-sensitive security applications, providing price/performance benefits. Multiple **SSL800** devices can be used together for even higher performance.

The **SSL800** offers extensive software and systems support for popular operating systems including:

- Microsoft Windows® 2000
- Linux®

The **SSL800** offers extensive software and systems support for popular web servers including:

- Apache Web Server
- Microsoft® IIS

The CryptoNetX™ family of SSL accelerators enables customers to cost effectively optimize the performance of e-commerce host machines by increasing the SSL processing capability. A single **SSL800** allows e-commerce devices to achieve sustained throughput of 800 connections per second, a 400% increase in performance over software-based e-commerce devices (733-MHz Pentium® III, Windows IIS).

The **SSL800** is complete with SNMP MIB network management capabilities. System diagnostics and configuration management are also provided with the **SSL800**.

The **SSL800** offloads SSL processing from web servers, SSL appliances, server load balancers, and web switches, freeing the CPU to respond to transactions in a way that significantly reduces customer wait time and lost business during peak buying times.

Technical Data

- 163 mm (6 3/8 in.) long, 42.5 mm (1 21/32 in.) wide
- Operating temperature 0°C to 55°C (+32°F to +131°F)
- Storage temperature -40°C to +85°C (-40°F to +180°F)
- Operating voltage +5V, ± 5%.
- Power consumption 10.5W, 2.1A at +5 VDC
- PCI clock 66 MHz maximum

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Connecting
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