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BCM4000
PRODUCT Brief

CryptoNetX™ SSL4000 ACCELERATOR ADAPTER

FEATURES

- **World's fastest SSL accelerator adapter**
  - 4000 1024-bit RSA transactions per second
  - HW supports 1024- and 2048-bit RSA keys
  - Support for SSL and TLS modes
- **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 EMCI/CISPR22
  - CE compatibility
    - CISPR22
    - EN 6100-4-11
- **Retail export classification**
- **Optimized PCI interface**
  - PCI 2.2 interface, 32/64-bit, 33 MHz-66 MHz
  - Increased DMA block transfers
- **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™ SSL4000 Accelerator Adapter

Designed for
Microsoft®
Windows®2000
Professional
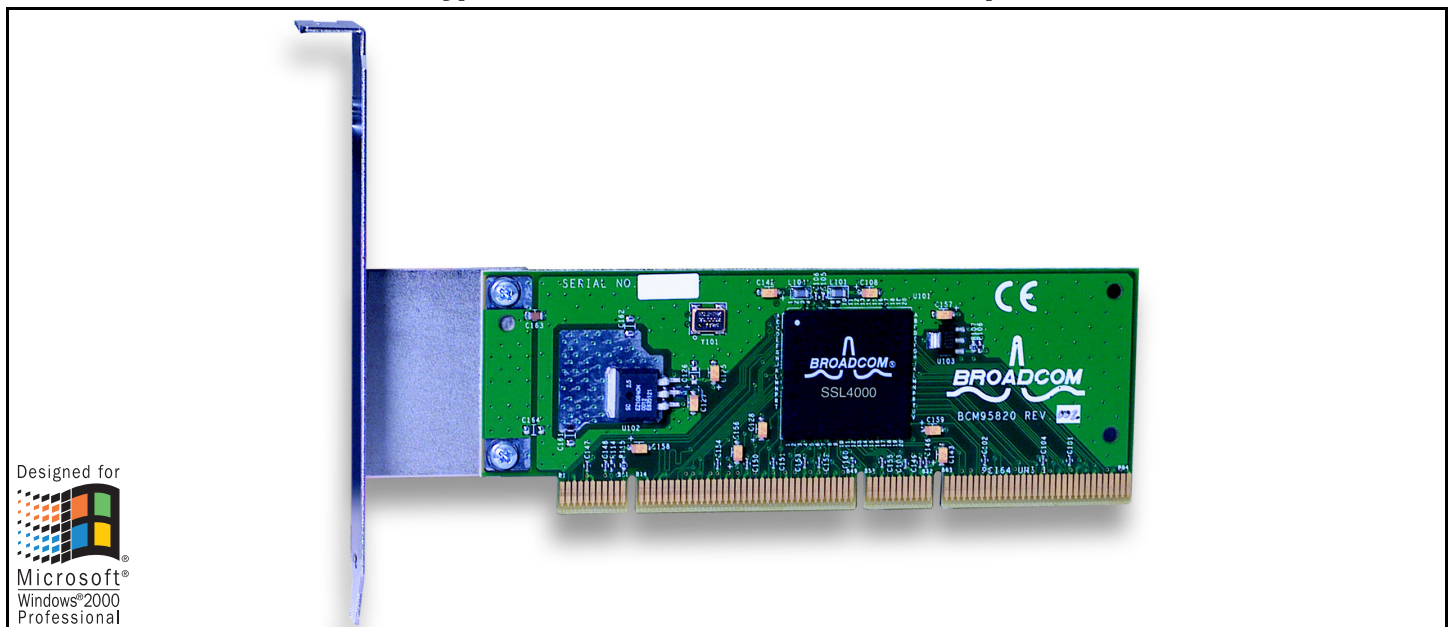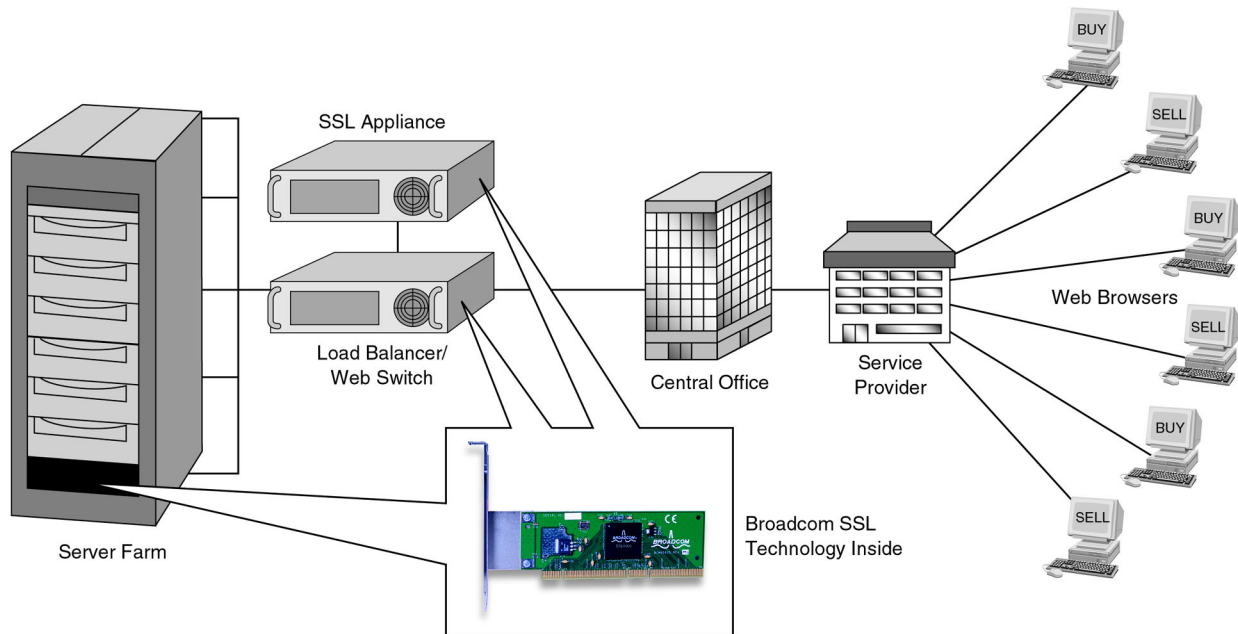
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Broadcom's **SSL4000** accelerator adapter is a complete high-performance SSL accelerator designed to accelerate the public-key cryptographic functions of SSL, thereby freeing the host CPU. This results in a dramatic improvement in the overall performance of the host system, drastically reducing CPU utilization and enabling additional CPU bandwidth for other value-added services and features.

The **SSL4000**'s PCI interface makes it a perfect solution for all cost-sensitive security applications, providing price/performance benefits. Multiple **SSL4000**s can be used together for even higher performance.

The **SSL4000** offers extensive software and systems support for popular operating systems including:
- Microsoft Windows® 2000
- Linux®

The **SSL4000** 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 **SSL4000** allows e-commerce devices to achieve sustained throughput of 4000 connections per second, nearly a 2000% increase in performance over SW-based e-commerce devices (733 Mhz Pentium® III, Windows IIS).

The **SSL4000** is complete with SNMP MIB network management capabilities. System diagnostics and configuration management are also provided with the **SSL4000**.

The **SSL4000** 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, 60 mm (2 5/16 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: 5W
- PCI clock 66-MHz maximum

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