

## CryptoNetX™ SSL1600 ACCELERATOR ADAPTER

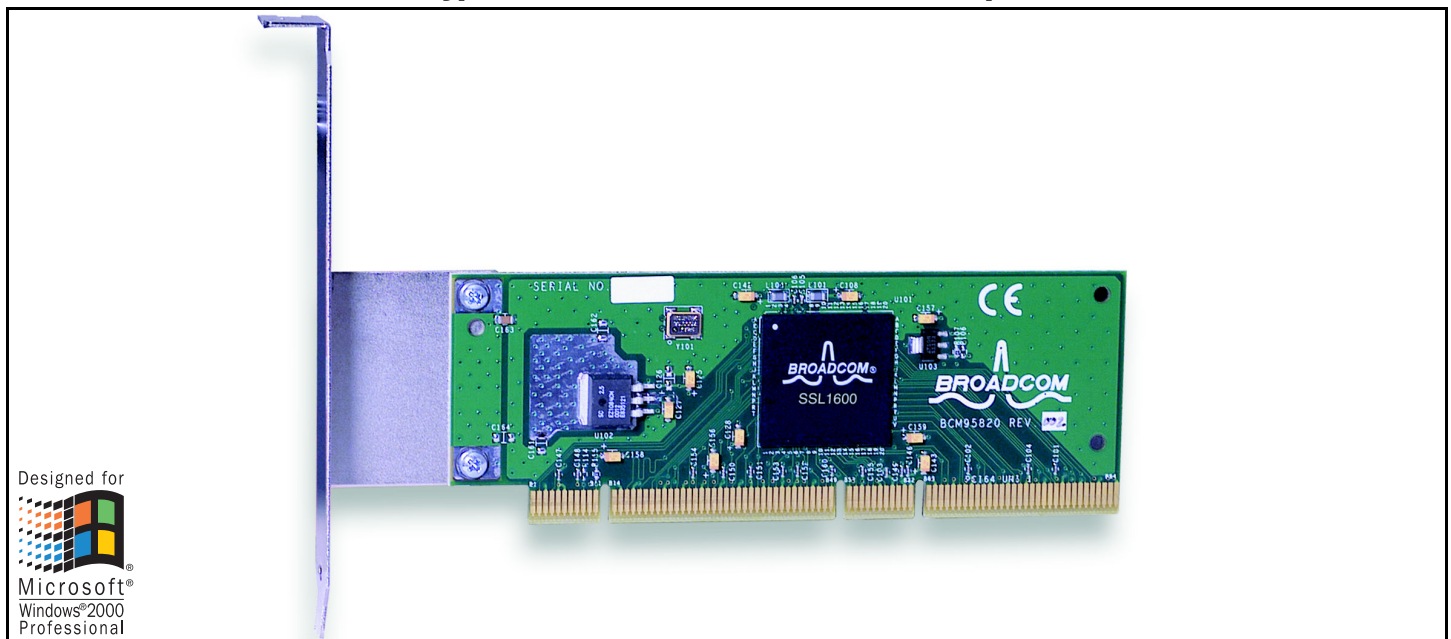
### FEATURES

- 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
  - 1600 1024-bit RSA private key signings per second
  - HW support for 2048-bit keys
  - Extensive support for all SSL and TLS modes
- 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

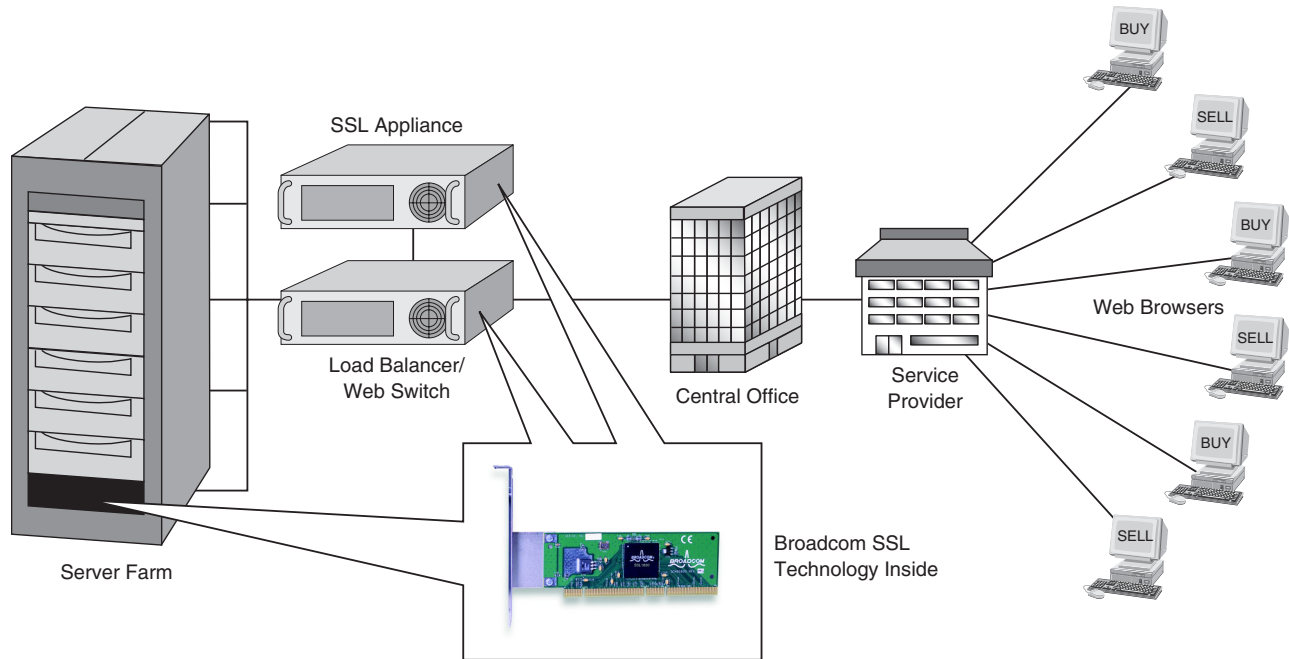
- Reduces the delay associated with SSL handshake and processing and vastly improves the speed at which web pages can be served.
  - Accelerates SSL protocol used in all web browsers.
    - Standard in Internet Explorer and Netscape Navigator.
    - Uses RSA encryption for compute-intensive operations.
- 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™ SSL1600 Accelerator Adapter



Designed for  
  
 Microsoft®  
 Windows®2000  
 Professional

## OVERVIEW



Broadcom's **SSL1600** 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 **SSL1600**'s PCI interface makes it a perfect solution for all cost-sensitive security applications, providing price/performance benefits. Multiple **SSL1600** devices can be used together for even higher performance.

The **SSL1600** offers extensive software and systems support for popular operating systems including:

- Microsoft Windows® 2000
- Linux®

The **SSL1600** 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 **SSL1600** allows e-commerce devices to achieve sustained throughput of 1600 connections per second, an 800% increase in performance over software-based e-commerce devices (733-MHz Pentium® III, Windows IIS).

The **SSL1600** is complete with SNMP MIB network management capabilities. System diagnostics and configuration management are also provided with the **SSL1600**.

The **SSL1600** 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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