

MODELS

Compaq AXL200 Accelerator PCI Card

The performance solution for secure application servers; supports more than 200 SSL connections per second

Features at a Glance

- Overcomes the performance bottleneck of SSL-secured applications
- Adds a dedicated coprocessor to the server, offloading cycle-consuming exponentiation
- Provides a much lower cost per SSL connection through the power of parallel processing
- Multiple cards provide linear, scalable performance
- Meets PCI 2.1 specifications for fast and easy installation
- Plugs into a Windows NT and Tru64™ UNIX system running NES 3.5, 3.6 or Windows 2000 running IIS5
- Available for use worldwide

The performance bottleneck in SSL-secured application servers

Secure Sockets Layer (SSL) is a cryptographic protocol that protects the digital communications between a browser and a server. SSL is the de facto standard for Internet security today and is found in software in millions of browsers and application servers. It is a crucial element of many Internet applications such as home banking, online trading, consumer e-commerce, intranets and extranets. As secure servers handle more and more SSL traffic, a performance bottleneck can occur, which can severely affect customer satisfaction. The SSL protocol supports a "handshake" between a browser and a server that establishes which cryptographic algorithms will be used for that session. This handshake requires the server to perform a compute-intensive exponentiation of a cryptographic key. The server's CPUs perform cryptographic processing with no cycles left for business processing. A successful application may have new customers waiting to connect to the server. Customers may become frustrated and go elsewhere.

The Compaq AXL200 Accelerator PCI Card solves the performance bottleneck

The immediate recourse to the performance bottleneck is to add another application processor. This is expensive and may require that additional memory be installed. The operations and management of the server will become more complex. The preferred alternative is to offload all exponentiation processing to a special-purpose peripheral, leaving the general-purpose processor free to run the business application. The Compaq AXL200 Accelerator PCI Card brings the power of parallel processing to bear on the performance bottleneck of secure applications. It meets the PCI 2.1 specification and provides for easy installation and use. The AXL200 PCI offloads security processing overhead and CPU utilization devoted to exponentiation drops to near zero. For less than the cost of another general-purpose processor, the AXL200 PCI Accelerator Card frees the server to run the business application.

The Compaq AXL200 Accelerator PCI Card ensures that a secure server grows with the business

As a secure application serves more customers, the AXL200 Accelerator PCI Card continues to alleviate the performance bottleneck caused by the compute-intensive exponentiation. The AXL200 Accelerator PCI Card can support more than 200 SSL connections per second. The AXL200 PCI optimizes parallel exponentiators on the PCI card to ensure that the secure application server can grow with the needs of the business. This parallel architecture is more cost-effective in alleviating the performance bottleneck of secure applications than any alternative method.

When performance of secure servers is important, the Compaq AXL200 Accelerator PCI Card is the solution

For more information visit www.compaq.com/security or www.atalla.com.

SPECIFICATIONS

Performance	Up to 260 SSL connections/second with NES 3.6 on NT4 Up to 178 SSL connections/second with IIS 5 on Windows 2000 Up to 220 SSL connections /second with NES 3.6 on Tru64 UNIX	
Physical Characteristics	PCI 2.1 compliant, 32 bit, 33 MHz	May require installation on the primary PCI bus
	Length	6.875 in/17.73 cm
	Width	3.525 in/9.09 cm
	Height (primary side)	0.57 in/14.48 mm
	Height (back side)	0.105 in/2.67 mm
Typical Power Consumption	6.25W (1.25 A x 5 V)	
Certification/Compliance/Safety	UL, CSA, TUV	

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