

## Accelerator Boards

# NITROX® SSL Accelerator Board for Server Off-Load

## Product Brief

### OVERVIEW

Cavium Networks offers accelerator boards for server off-load, providing market leading SSL acceleration for the IT Manager/End-User. These boards enhance processing performance by up to 10-15x over typical non-accelerated Web servers and free up server processing cycles, reduce the requirement for additional servers and software, and lower overall security infrastructure costs.

The SSL offload Accelerator Board family includes CN1620-400-NHB-E-G and CN1620-400-NHB4-E-G and are ideal for the following applications:

- Secure Web Servers
- Secure Exchange Servers
- Load Balancers

The Accelerator Boards and accompanying software enable Enterprises to provide secure access to their customers and partners in an extremely cost efficient manner. These cost efficient Accelerator Boards allow customers to design their system architecture to handle bursts in customer traffic with much better response times than any alternative. These boards can plug into PCI-Express slots in Servers and are very easy to install. They come with Windows Server 2008 R2, or Red Hat Enterprise Linux support.

### FEATURES

High performance SSL offload processing

Supports market leading SSL TPS

- CN1620-400-NHB4-E-G: 65K RSA 1024b TPS
- CN1620-400-NHB-E-G: 18K RSA 1024b TPS

Supports higher performance

- CN1620-400-NHB4-E-G - 6 Gbps IPSEC/SSL throughput
- CN1620-400-NHB-E-G - 3.2 Gbps IPSEC/SSL throughput

Highly scalable family of 3 accelerator boards

Plug and Play capability

### BENEFITS

Saves CPU cycles for other applications and enables cost efficient solution design

Support large number of user connections/sec at a very low cost per connection

Provides low cost, secure access for customers and partners

Meets ever increasing performance requirements with scalable software architecture

Compatible with Windows running IIS and Red Hat Enterprise Linux running Apache

### PRODUCT SPECIFICATION

Industry standard PCI-E interface

- Standard half height PCI-E x8  
CN1620-400-NHB4-E-G
- Standard half height PCI-E x4  
CN1620-400-NHB-E-G

Operating Environment

- Operating temperature 0 – 55C

FCC Class A certified, CE compatibility

### SOFTWARE

Windows 2008 R2 Server Family: Hardware acceleration for CryptoAPI (CAPI) via the ModExp offload function

Red Hat Enterprise Linux v5: Complete OpenSSL engine offload support for Apache based Web servers



CN1620-400-NHB4



CN1620-400-NHB