StreamWise™ NCA2000 Network Content Accelerator Development Platform

Product Brief

The NCA2000 PCI-X card enables network security and content processing vendors to enter the market quickly with multi-Gbps, silicon-enabled products with no investment in hardware R&D.

The NCA2000 Development Platform is a turn-key system for the rapid development of application software for NCA2000-enabled products.

Application Firewall | Web Security Proxy | SSL Accelerator | Firewall/VPN | Intrusion Detection/Prevention | Content Switch

NCA2000 PCI-X Card Family

The NCA2000 PCI-X card family from Seaway Networks brings an unprecedented level of performance to 1U/2U rack-mount PC-based appliances by providing 2 Gbps of advanced layer 2-7 processing. With four NCA2000 models available, cutomers can choose the product that offers the features required by their particular application.

The NCA2000 delivers advanced packet processing, stream switching, content processing and application offload to enable a 10-20 fold improvement in system performance. By offloading layer 2-7 datapath processing onto the NCA2000 card, the system's host processor can be dedicated to application OAM and control path processing. Rather than developing costly custom hardware to achieve their performance and feature goals, equipment vendors in network security and other network content processing applications can now focus on developing advanced software and services that bring value to their customers.

Powered by Seaway's award-winning SW5000 Network Content Processor, the NCA2000 PCI-X card provides a rich set of layer 2-7 processing capabilities which enable performance and feature differentiation in a wide range of security and content-based applications.

For more details, please consult the StreamWise™ NCA2000 Network Content Accelerator Product Brief available from Seaway Networks.

NCA2000 Models	Stream Recovery and TCP Proxy	Content Processing and Application Acceleration	Cryptographic Acceleration
NCA2000-L4	✓	–	–
NCA2000-L4C	✓	–	✓
NCA2000-L7	✓	✓	–
NCA2000-L7C	✓	✓	✓

NCA2000 Development Platform

The NCA2000 PCI-X Card Development Platform is a turn-key, self-contained system for the development, testing, validation and optimization of software for network security and other content processing applications.

The platform hardware consists of the NCA2000 PCI-X card housed in a popular, standard 1U rack-mount server chassis that has been pre-qualified for mechanical, thermal, power and functional compatibilities. In addition, to assist in development and debugging, a specialized serial port arrangement is provided for direct console access to the processors on the card. The system server board and the NCA2000 card are populated with an appropriate amount of memory suitable for most applications.

The Platform is preloaded and preconfigured with the necessary system software as well as the tools required for application software development and testing.

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Accelerated Time to Market

The NCA2000 Development Platform is representative of an NCA2000-enabled network security or content processing product. As a result, the Platform enables system developers to start immediately on their design and later directly transfer their design work to the end product.

The platform also offers system developers a stable and effective means to evaluate the NCA2000 Network Content Accelerator Card.

Server Specifications

- 1U chassis
- 64bit 100/133 MHz PCI-X bus
- Intel Xeon 2.8 or 3.06 GHz processor
- 40 or 80 GB Hard Disk
- CD-ROM/Floppy Drive
- 1GB memory

Software

- Host Operating System: Linux
- Software Development Kit: SW5000 System Software: Host and Content Processor API Libraries and Drivers, Packet Processor Firmware, reference applications
- Software Development Environment: GNU tool chain (compiler, linker, debugger) packaged by Seaway for the convenience of customers

NCA2000 PCI-X Card

- 64bit/133MHz
- Two 1000Base-T (copper) Ethernet interfaces
- 2GB 133MHz DDR SDRAM Central Stream Memory, mainly for buffers (max. 4GB)
- 1GB 133MHz DDR SDRAM Processor Memory, mainly for tables and code (max. 2GB)
- Serial port for direct console access to processor(s) on card
- Choice of four NCA2000 card options. Please see NCA2000 Model Table and StreamWise™ NCA2000 Network Content Accelerator Product Brief for details

Documentation

Software documentation is pre-installed.

Custom Configurations

While the standard development platform described above has been designed to suit most applications, Seaway would be pleased to discuss the delivery of custom configurations more optimized for specific customer requirements.

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