Interface Masters

T E C H N O L O G I E S

Innovative Network Solutions

Niagara 2120-1010
# Niagara 2120-15XX

Gigabit Rate SSL/IPsec Accelerator

Based on Cavium CN1010, CN1505, CN1510, CN1515 & CN1520

Overview

Niagara 2120 is built on Cavium's technology and Interface Masters' sterling design and customer service.

Niagara 2120 is optimized to support x4 PCI Express bus at speeds of up to 2.5 Gb/s.

Designed for users that demand performance, solid reliability and small form while utilizing Cavium's Nitrox IPsec and SSL acceleration technology.
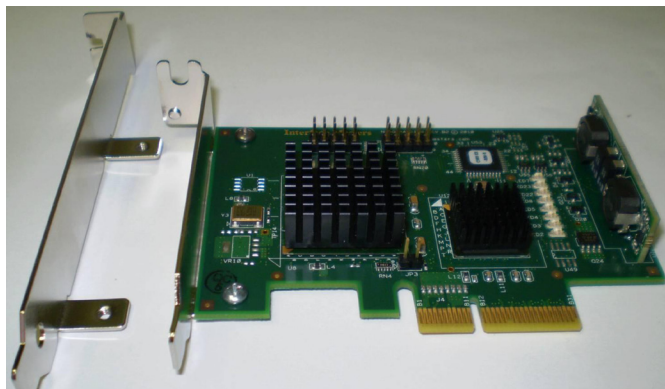
Features

- Low profile PCI-e form factor
- Multiple protocols
  - » IPSEC/IKE
  - » SSL/TLS

- High performance bulk data encryption
  - » 1 to 10Gbps IPSec packet processing
  - » 1 to 20Gbps SSL record processing

- High performance Public Key operations
  - » 10K to 40K 1024bit RSA's/sec
  - » 18K to 60K DH/sec (180-bit modulus)

- Multi-algorithm support
  - » DES/3DES, AES (128, 192, 256), ARC4
  - » MD5/HMAC-MD5, SHA1/HMAC-SHA1
  - » DH(groups 1,2,5), RSA (to 4096 bits)

Block Diagram
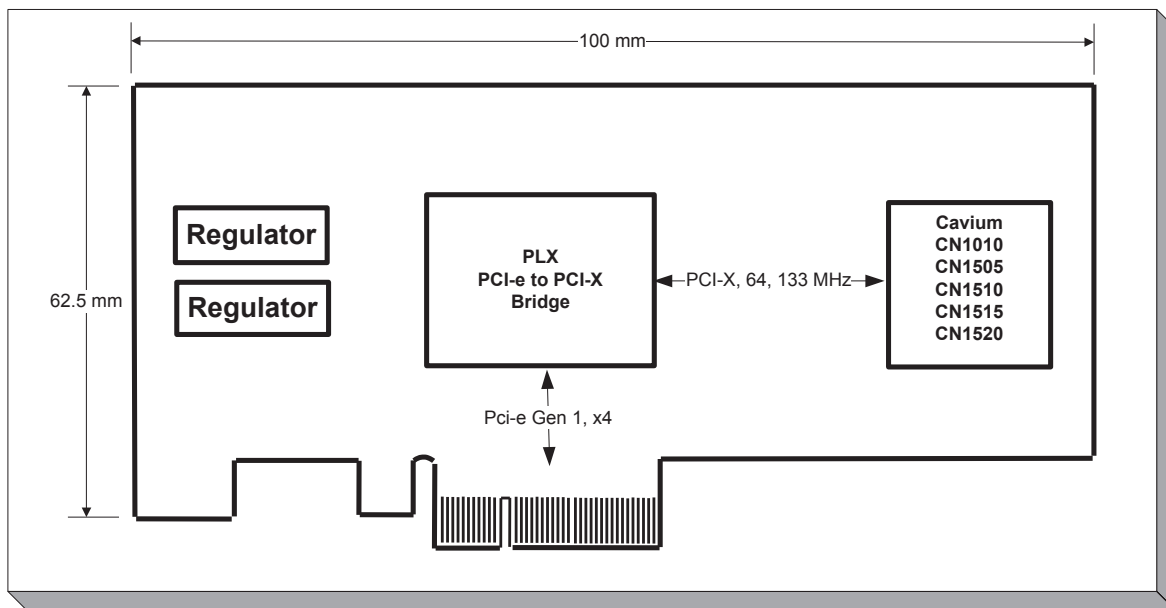
Environmental

Operating Humidity	0%–90%, non-condensing
Operating Temperature	0°C – 50°C (32°F - 122°F)
Storage Temperature	-20°C – 65°C (-4°F – 149°F)
Max Power	TBA

Dimensions

	mm	inches
Length	100.01	3.937
Height	62.6	2.464

Ordering Part Numbers

Part Number	Description
Niagara 2120-1010	Gigabit Rate SSL/IPsec accelerator based on Cavium CN1010
Niagara 2120-1505	Gigabit Rate SSL/IPsec accelerator based on Cavium CN1505
Niagara 2120-1510	Gigabit Rate SSL/IPsec accelerator based on Cavium CN1510
Niagara 2120-1515	Gigabit Rate SSL/IPsec accelerator based on Cavium CN1515
Niagara 2120-1520	Gigabit Rate SSL/IPsec accelerator based on Cavium CN1520

Product Line

- External Bypass Systems/Switches 1Gb and 10Gb

- External 1GE and 10GE Aggregation TAP system

- Special Server Adaptors/NIC cards supporting
  - » Multi Port NIC cards - Copper, Fiber MM and Fiber SM
  - » 10/100, Gigabit and 10 Gigabit - Supporting Fiber SX, LX, SR and LR
  - » NIC cards with Bypass and Security
  - » PCI-Express, PCI-X, PMC and PC104 Plus

- Gigabit and 10GE Embedded Switches

About Us

Interface Masters Technologies is a leading vendor in the Bypass and TAP Networking market, based in the heart of the Silicon Valley. Interface Master's expertise lies in Gigabit and 10 Gigabit Ethernet networking solutions that integrate with monitoring, inline networking, IPS, UTM, Load Balancing, WAN acceleration, and other mission-critical IT and security appliances. Flagship product lines include specialized 10GE internal server adapter cards, embedded switch boards, and 10 Gigabit external intelligent Network TAP, Bypass and failover systems that increase network monitoring capabilities, network reliability and inline appliance availability. Company Headquarters are located in San Jose, CA with satellite offices in Hong Kong and Germany.

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