Interface Masters
I N C O R P O R A T E D

Niagara 2100PA
eCommerce Processor Board

Niagara 2100PA is a 64 bit, 66 MHz PMC (PCI Mezzanine Card) add on board based on Broadcom BCM5820 eCommerce Processor

Niagara 2100PA is designed for software applications that demand performance, solid reliability and small form.

Niagara 2100PA is designed for high volume production. Interface Masters can develop new hardware per customer requirement in a short time.

FEATURES	
Processor	Broadcom® BCM5820 eCommerce Processor.
Throughput	• 800 RSA transactions per second • 1250 Diffie-Hellman transactions per second • 310 Mbps Ipsec (3DES, MD5/SHA-1) • 200 Mbps ARC4
Secure Socket Layer (SSL) v 3.0	512-bit, 768-bit, 1024-bit, 1536-bit, and 2048-bit RSA public key and private key processing.
Transport Layer Security (TLS)	512-bit, 768-bit, 1024-bit, 1536-bit, and 2048-bit RSA public key and private key processing
IETF IPSec and FIPS Compliant Crypto	3DES CBC encryption and decryption at full speed.
IETF IKE	768-bit, 1024-bit, 1536-bit, and 2048-bit Dif-fie-Hellman key generations for IKE handshake. On-chip true random number generator for private key generation.
PCI bus	64 bit, 66 MHz.
Board Physical Form Factor	64 bit Universal PMC, 2.91" x 3.38"
Software	Free BSD 4.2, Linux, win2000, VxWorks