InterfaceMasters
I N C O R P O R A T E D

Niagara 2100PC-2
eCommerce Processor Board

Niagara 2100PC-2 is a 64 bit, 66 MHz PMC (PCI Mezzanine Card) add on board based on Broadcom BCM5823-200 eCommerce Processor

Niagara 2100PC-2 is designed for software applications that demand performance, solid reliability and small form.

Niagara 2100PC-2 is designed for high volume production. Interface Masters can develop new hardware per customer requirement in a short time.

FEATURES	
Processor	Broadcom® BCM5823-200 eCommerce Processor
Throughput	• 250 1024-bit RSA transactions per second • 200 Diffie-Hellman transactions per second • 200 Mbps AES-CBC, AES-CTR (up to 256-bit key length) • 200 Mbps DES-CBC, 3DES-CBS • 320 Mbps ARC4 • 300 Mbps HMAC-SHA-1, HMAC-MD5
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	AES CBC, AES CTR, 3DES CBC encryption / decryption and HMAC-MD5/SHA1 authentication.
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, Windows 2000, VxWorks