



Niagara 2340

eCommerce Processor Board

Niagara 2340 is a 64 bit, 66 MHz PCI add on board based on one Broadcom BCM5823-500 and one BCM5821 eCommerce Processors

Niagara 2340 is designed for software applications that demand performance, solid reliability and small form.

Niagara 2340 is designed to fit in any 32-bit or 64 bit PCI slot. Small form factor to fit in ATX chassis or low profile PCs.

Niagara 2340 is designed for high volume production. Interface Masters can develop new hardware per customer requirement in a short time.

| Features | | |
|--------------------------------------|---|---|
| Processors | Broadcom® BCM5821 | Broadcom® BCM5823-500 |
| Throughput | 4000 1024-bit RSA transactions per second. 3000 Diffie-Hellman transactions per second 470 Mbps Ipsec (3DES, HMAC-SHA-1) 600 Mbps ARC4 | Over 500 Mbps sustained in-system bulk throughput <ul style="list-style-type: none"> • DES-CBC, 3DES-CBC • AES-CBC, AES-CTR (up to 256-bit key lengths) • HMAC-SHA-1, HMAC-MD5 • Single pass encryption and authentication 550 1024-bit RSA transactions per second 400 Diffie-Hellman transactions per second |
| 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 / decryption and HMAC-MD5/SHA1 authentication. | 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. | |
| Bracket | Choice of two brackets for standard PCI and Low profile PCI | |
| Board Size | 64 bit Universal PCI, 2.5" x 6.5" | |
| Software | Free BSD 4.2, Linux, Windows 2000, VxWorks | |

<http://www.interfacemasters.com>

2381 Zanker Rd., Suite 130

San Jose, CA 95131

Phone: 1-408-456-2545 Ext. 14

Information Subject to change without notice

Rev 1.0

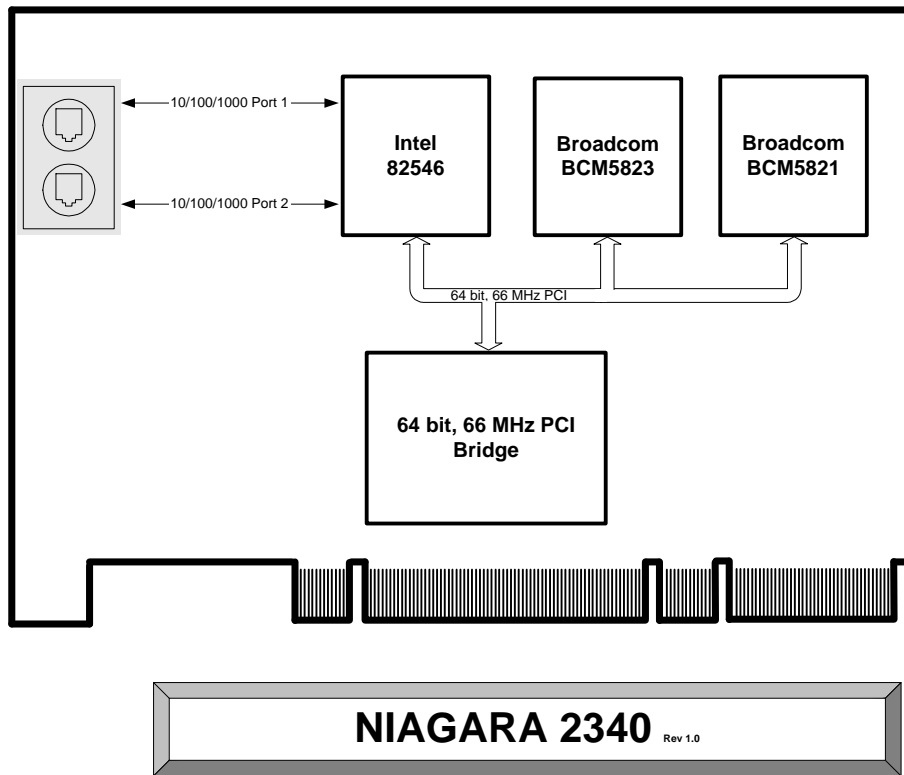


Figure 1 Block Diagram

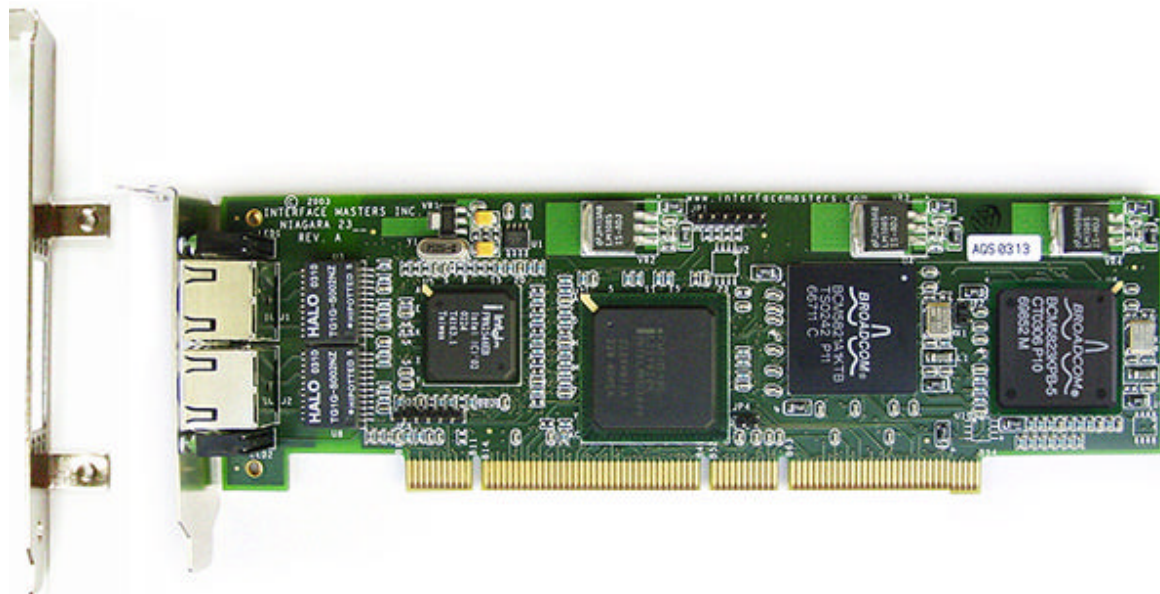


Figure 2 Picture