

### Overview

### Models

Option Kit - P/N 266997-B21

**NOTE:** Also available pre-configured on select Desktop Products.

### Introduction

The Broadcom® NetXtreme™ Based 10/100/1000 Management Gb Adapter is a high performance, PCI v2.2 32-bit, 33/66 MHz Ethernet LAN adapter that dramatically improves network response time and reduces customer support costs. The adapter supports 10BASE-T, 100BASE-TX and 1000BASE-T LAN protocols and provides 10/100 Mbps connectivity through two pairs of standard CAT-5 cable up to 100 meters in distance, and 1000 Mbs connectivity through four pairs of standard CAT-5/CAT-5E cable up to 100 meters in distance. It conforms to the IEEE 802.3ab 1000 Base-T standard. The Broadcom NetXtreme Based 10/100/1000 Management Gb Adapter contains factory-enabled logic to enable Wake On Lan (WOL) and is totally software configurable with no jumpers or switches. These features combined with the high-speed network connection capability and reduction of local support time result in a greater return on investment for network ownership.

### Key Benefits

- 802.3u auto-negotiation and full support for both half-duplex and full-duplex operation at 10/100 speeds
- 802.3u auto-negotiation to 1000 Mbps as well as support for full-duplex flow control
- Enables remote power-up with WOL
- Allows remote network management with Desktop Management Interface (DMI) 2.0
- Complies with PCI v2.2 specification
- Integrated 10/100/1000BASE-T transceiver supports automatic MDI crossover function and auto-negotiation with Next Page capability
- Supports PXE and RPL which allow remote upgrades and software installations
- Supports link aggregation – 802.3ad GEC/FEC, and Smart Load Balancing™
- Failover – Smart Load Balancing allow heterogeneous, mixed speed failover
- Virtual LANs – 802.1q VLAN Tagging
- Adaptive power management
- Backwards compatible to existing 10/100 network infrastructure
- Quality Link Indicator LED
- Remote cable management and diagnostics software for diagnostics and fault isolation
- Integrated Cable Testing – link quality, length, pair skew, pair polarity, pair swap

### Performance

- Dual high-speed on-chip RISC processors
- Full-duplex capability increases performance for demanding desktop applications
- Gigabit Media Independent Interface (GMII) as specified in IEEE 802.3ab standard for supporting 10/100/1000BASE-T transceivers
- High performance, low overhead SW/HW interface
- Integrated 96Kb packet Frame Buffer Memory
- 9K Jumbo Frame Support
- Support for major operating systems and network operating systems
- TCP, IP, UDP checksum, TCP segmentation, CPU task offload, adaptive interrupts
- Adaptive interrupts for low CPU utilization

### Compatibility

The Broadcom NetXtreme Based 10/100/1000 Management Gb Adapter is PCI 2.2 compliant and compatible with most Compaq Evoä Desktop D300 and Evo Desktop D500 series and Evo Professional Workstation computers.

### Service and Support

The Broadcom NetXtreme Based 10/100/1000 Management Gb Adapter has a one-year limited warranty or the remainder of the warranty of the Compaq product in which it is installed. Technical support is available seven days a week, 24 hours a day by phone, as well as online support forums. Certain restrictions and exclusions apply.

### Technical Specifications

<b>Connector</b>	RJ-45
<b>Controller</b>	Broadcom 5702 PCI LAN Controller
<b>Memory</b>	Integrated 96Kb frame buffer memory
<b>Data rates supported</b>	10/100/1000 Mbps
<b>Compliance</b>	IEEE 802.1A, 802.1P, 802.1P, 802.1Q, 802.2, 802.3, 802.3AB and 802.3u compliant, 802.3x flow control
<b>Bus architecture</b>	PCI 2.2
<b>Data path width</b>	32-bit, 33/66 MHz bus interface
<b>Data transfer mode</b>	Bus-master DMA
<b>Hardware certifications</b>	FCC, B, CE, TUV- cTUVus Mark Canada and United States, TUV- GS Mark for European Union
<b>Power requirement</b>	1.48 watts @ +3.3V AUX supply with 5V tolerance
<b>Boot ROM support</b>	Yes
<b>Network transfer rate</b>	10Base-T (half-duplex) 10 Mbps 10Base-T (full-duplex) 20 Mbps 100Base-TX (half-duplex) 100 Mbps 100Base-TX (full-duplex) 200 Mbps 1000Base-T, 1000Mbps
<b>Environmental</b>	<b>Operating temperature</b> 32° to 131° F (0° to 55° C) <b>Operating humidity</b> 85% at 131° F (55° C)
<b>Dimensions</b>	4.721 x 2.0 x 0.08 in (12.02 x 5.09 x 1.9 cm)
<b>Operating system driver support</b>	Microsoft® Windows® NT™ 4.0, Microsoft Windows 98, Microsoft 2000, Microsoft XP, Linux® 2.2, Linux 2.4
<b>Management capabilities</b>	ACPI, WOL and DMI 2.0, PXE 2.0, WfM 2.0, Broadcom mgmt utility
<b>Kit contents</b>	Broadcom 5702, CD containing NetXtreme Based 10/100/1000 Management Gb Adapter NIC drivers, quick install guide, product warranty statement

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