

### Overview

### Models

Compaq NC3123 Fast Ethernet Adapter PCI, 10/100 WOL	174830-B21 Single 174830-B22 5-Pack
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The Compaq NC3123 Fast Ethernet Adapter provides high-performance and feature-rich functionality on both 10BASE-T and 100BASE-TX networks.

#### Fast Ethernet Server Adapters

NC3134 Fast Ethernet NIC 64 PCI Dual Base 10/100	138603-B21
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#### Gigabit Server Adapters

NC7131 Gigabit Server Adapter PCI, 64/66, 10/100/1000-T	158575-B21
NC6136 Gigabit Server Adapter PCI, 64/66, 1000-SX	203539-B21

#### Optional Upgrade Modules for use with the NC3134

NC6133 1000 LX Upgrade Module	338456-B24
NC6132 1000X SX Upgrade Module	338456-B23
NC3135 Dual 10/100 Upgrade Module	138604-B21
NC3133 100 FX Upgrade Module	338456-B25

### Introduction

Based on Intel's 82559 communications processor, the NC3123 server adapter incorporates a variety of features for faster throughput than previous 10/100 adapters, increasing flexibility and reducing support costs. The NC3123 delivers industry-standard drivers that are compatible with other Compaq NC series Fast Ethernet adapters.

## Performance

### High-Performance and Flexibility for Today's Businesses

Full-duplex support allows the NC3123 to transmit and receive data simultaneously at rates up to 20 Mbps for Ethernet and 200 Mbps for Fast Ethernet. Performance is further enhanced with 6 KB of buffer memory, which makes for low CPU utilization at high throughputs. Auto-sensing capabilities enable it to automatically negotiate between 10 and 100 Mbps to achieve the highest common speed on the network.

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### Port Bonding

Transmit Load Balancing (TLB) and Switch-Assisted Load Balancing (FEC/GEC/802.3ad static-mode configuration only) are two port-bonding methods supported by the NC3123. TLB provides both failover and balancing of transmit traffic across all adapters for increased performance. For even higher performance, Switch-Assisted Load Balancing (SLB) provides port failover and balancing of both transmit and receive traffic across all adapters when connected to a switch that supports this feature.

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### Bus-mastering

This controller uses bus-mastering technology to maximize throughput and minimize CPU utilization.

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### *Ease of Use*

**Plug and Play**

The NC3123 features a robust Plug-and-Play capability and PCI 2.2 support for conflict-free auto configuration. With SmartStart support, adapter installation is easily integrated into the setup of the operating system and machine.

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**Common Driver Support**

The NC3123 drivers can be used for all Compaq 10 or 100 Mbps NC31xx series network adapters. No driver change is required when moving from 10 to 100 Mbps. Common drivers provide consistency, easy management and support, and save money and time.

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**World Class Compaq Reliability**

Designed with quality and investment protection in mind, the NC3123 Fast Ethernet Adapter meets all of Compaq's demanding design and manufacturing standards. Surface-mount technology, ASIC-based hardware, state-of-the-art manufacturing facilities, a top-notch quality inspection, and testing provide the reliability and quality you expect from a Compaq product.

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**Conformance to Industry Standards**

The NC3123 is fully compatible with Windows 2000 and Windows NT. This product supports ACPI (Advance Configuration Power Interface), which can reduce power consumption, and is Novell NetWare certified.

## Security/Reliability

**Network Fault Tolerance (NFT)** The Network Fault Tolerance feature of the NC3123 ensures that the server can always keep an active link. After installing a second, compatible adapter, if the primary network connection fails, the second, backup adapter will automatically take over, retaining the network connection. The NC3123 can be configured to fail over to any NC31xx, NC61xx, or NC71xx adapter by using the latest drivers.

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**PCI Hot Plug** PCI Hot Plug support enables the network controller to be replaced or added to a PCI Hot Plug compatible server without powering down the system. This feature provides increased system availability and non-stop serviceability in business-critical computing environments.

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**Diagnostic LED Indicators** LEDs indicate link, speed, and network activity for "at-a-glance" troubleshooting.

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### Network Management

#### Standards-based

The NC3123 supports the following Compaq Management tools and industry network management standards to work with a broad spectrum of software utilities:

- Compaq Insight Manager
- Compaq Insight Manager XE
- SNMP
- DMI 2.0
- Web-Based Enterprise Management (WBEM)
- Unattended Install

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#### Server Integration

Compaq's SmartStart configuration utility includes setup support for the NC3123 so that the adapter can be configured as part of the SmartStart configuration process. Compaq Insight Manager can recognize the NC3123 individually or in port bonded teams, and can collect and report SNMP statistics on the server adapter events. The Compaq Network Management System can also collect and report SNMP statistics on the NC3123.

Integrated Management Log (IML) support is provided by the NC3123 for critical event logging on Compaq servers.

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#### Wake on LAN

The Compaq NC3123 Fast Ethernet Server Adapter provides two popular methods of Wake on LAN support: using a 3-pin header or through the PCI bus. A system that supports Wake on LAN can remain available to a system administrator during its normal downtime. Once the machine is awakened, the system administrator can remotely control, audit, debug, or manage the machine.

### Technical Specifications

<b>Compliance</b>	PCI 2.2 and 2.1 IEEE 802.3, 802.3u
<b>General Specifications</b>	Intel 82559 Communication Processor Wake on LAN (WOL) 3-pin header or PCI 2.2 10/100 Mbps 32-bit/33-MHz bus mastering Full- and half-duplex RJ-45 connector Onboard memory - 6 KB
<b>Operating System Support</b>	Microsoft Windows 2000 Microsoft Windows NT 4.0 Microsoft Windows NT 3.51 Novell NetWare 5.x Server Novell NetWare 4.x Server Novell NetWare 3.x Server SCO UnixWare 7.x SCO OpenServer 5.x SCO UnixWare 2.1 MS-DOS Client drivers for unattended install OS/2 Warp Server
<b>Cable Support</b>	10BASE-T Categories 3, 4, or 5 UTP (2 or 4 pair); up to 328 feet (100 metres) 100BASE-TX Category 5 UTP (2 pair); up to 328 feet (100 meters)
<b>Power and Environmental Specifications</b>	Operating Temperature 50° to 131°F/10° to 55°C Humidity up to 85% (non-condensing) Non-operating Temperature -4° to 149°F/-20° to 65°C Humidity up to 85% (non-condensing) Power Requirements 212mA @ +5V DC, 1.06 Watts Emissions Standard FCC Class B Safety Compliance CE Mark
<b>Kit Contents</b>	NC3123 Fast Ethernet NIC, 10/100 PCI WOL cable for PCI 2.1 WOL systems CD-ROM: software and documentation Quick Install Card Quality Statement Product Warranty Statement

## Technical Specifications

Software Feature Support by Operating System	FEATURE	Windows 2000	Windows NT 4.0	Linux 32-bit	UnixWare 7.x	Open Server 5.x	NetWare 3.12, 3.2 Server	NetWare 4.11 Server	NetWare 5.0 Server
	TLB	*	*					*	*
	SLB	*	*					*	*
	NFT	*	*		*	*		*	*
	PCI Hot-Plug	*(1)	*(1)					*	*
	Configuration Utility	*	*				*	*	*
	DMI 2.0	*	*				*	*	*
	SNMP	*	*	*			*	*	*
	Unattended Install	*	*				*	*	*
	SmartStart		*	*			*	*	*
	WBEM	*	*	*	*	*	*	*	*
	Compaq Insight Manager Compaq Insight Manager XE	*	*	*	*	*	*	*	*
	IML	*	*	*	*	*	*	*	*

\* Windows 2000: Hot Plug add/replace; Windows NT 4.0: Hot Plug replace only

### Warranty

**Maximum:** The remaining warranty of the Compaq server product in which it is installed (to a maximum of a three-year limited warranty).

**Minimum:** One-year, on-site limited warranty.

**NOTE:** Certain restrictions and exclusions apply. In North America, call 1-800-OK-COMPAQ; outside of North America, please contact your customer service center.

For additional information about Compaq and its products, refer to the Compaq web site at <http://www.compaq.com>.

For further information on Compaq networking products, contact Compaq Sales at 1-800-544-5255 or the Compaq Technical Support Center (post sales) at 1-800-652-6672. For customer support and information about Compaq and its products, call 1-800-OK-COMPAQ.

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