

MODELS

Compaq NC6134 Gigabit NIC 64 PCI, 1000 SX

174818-B21

With the NC6134 server adapter, Compaq broadens its gigabit offerings to three 1000 Mbps adapters supporting high availability server features such as PCI Hot Plug, Network Fault Tolerance, and Transmit Load Balancing.

Fast Ethernet Server Adapters:

NC3134 Fast Ethernet NIC 64 PCI Dual Base 10/100

138603-B21

NC3123 PCI, 10/100 WOL

174830-B21

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 or NC3131:

NC6133 1000 LX Upgrade Module

338456-B24

NC6132 1000 SX Upgrade Module

338456-B23

NC3135 Dual 10/100 Upgrade Module

138604-B21

NC3133 100 FX Upgrade Module

338456-B25

OVERVIEW

The NC6134 broadens Compaq's Gigabit adapter offerings by providing a single port 1000 SX connection for 32- and 64-bit PCI slots.

PERFORMANCE

32-/64-bit Bus-mastering

The NC6134 offers the highest data transfer method available between a network and a server for high performance and low CPU utilization. The NC6134 operates in 32- or 64-bit PCI slots and uses bus-mastering technology to maximize throughput and minimize CPU utilization.

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 NC6134. 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.

Jumbo Frames

Jumbo Frames (also known as Extended Frames) offer a 9K byte Maximum Transmission Unit (MTU), which is six times the size of traditional Ethernet frames. Like all Compaq Gigabit server adapters, the NC6134, supports jumbo frames as a way to achieve higher throughput and better CPU utilization when deploy in a network infrastructure that supports them. Jumbo frames are particularly useful for database transfers and tape backups.

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EASE OF USE

Plug and Play

Fully compliant with the 2.1 PCI specification, this NIC automatically configures its I/O address and interrupt (IRQ) settings for easy installation.

SECURITY/RELIABILITY

Network Fault Tolerance (NFT)

The Network Fault Tolerance feature of the NC6134 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 NC6134 can be configured to fail over to any NC31xx, NC61xx, or C71xx adapter by using the latest drivers.

PCI Hot Plug

The NC6134 includes PCI Hot Plug support, which enables it 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.

NETWORK MANAGEMENT

Standards-based

- The NC6134 supports the following Compaq Management tools and industry network management standards.
- *Compaq Insight Manager™*
- Compaq Insight Manager XE
- SNMP
- DMI 2.0
- Web-Based Enterprise Management (WBEM)

Server Integration

Compaq's *SmartStart™* configuration utility includes setup support for the NC6134 so the NIC can be configured as part of the SmartStart configuration process. Compaq Insight Manager can recognize the NC6134 individually or in port bonded teams, and can collect and report SNMP statistics on the NIC events. The Compaq Network Management System (CNMS) can also collect and report SNMP statistics on the NC6134.

Integrated Management Log (IML) support is provided by the NC6134 for critical event logging on Compaq servers.

Configuration Utilities

Each NC6134 ships with a suite of OS-tailored configuration utilities that allow the user to run initial diagnostics and configure adapter teams for Network Fault Tolerance, Transmit Load Balancing, or Switch-Assisted Load Balancing (FEC/GEC/802.3ad static-mode configuration only) in the Windows 2000 and Windows NT operating systems.

Diagnostic LED Indicators

LEDs show link integrity and network activity for easy troubleshooting.

SPECIFICATIONS

Compliance	IEEE 802.3z compliant 1000 Mbps Ethernet specification PCI 2.1
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General Specifications	Communications Processor	Intel 82542
		Full-duplex
	On-board memory	64 KB
	Data path	32 and 64 bit/33 MHz
	Interrupt levels	INTA
	Bus architecture	PCI bus-mastering
	Connectors	SC
	Wavelength	SX = 850nm
	Distance	up to 1,804 ft/550 m

SPECIFICATIONS *(continued)*

General Specifications <i>(continued)</i>	Wiring	Multi-mode fiber (62.5µm/50µm)
	Dimensions (LxW)	7 x 2.75 in/18 x 7.2 cm
	64-bit addresses for systems with more than 4 GB of physical memory	
	64-bit PCI host interface compliant with PCI 2.1	
	Command usage optimization for advanced PCI commands (MWI and memory reads)	
	Software controlled global reset bit (resets everything except PCI configuration registers)	

Power and Environmental Specifications	Operating	Temperature	32° to 131° F/0° to 55° C
		Humidity	10% to 90%
	Non-operating	Temperature	-85° to 185° F/-65° to 85° C
		Humidity	5% to 95%
	Power requirement	1025 mA @ 5V maximum	
	Emissions standards	FCC Class B	
Safety compliance	CE Mark		

Operating System Support	Windows 2000
	Windows NT 4.0
	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
	OS/2 Warp Server

Kit Contents	NC6134 Hardware
	CD-ROM: software and documentation
	Quick Install Card
	Product Quality Statement
	Product Warranty Statement

Software Feature Support by Operating System		Windows 2000	Windows NT 3.51	Windows NT 4.0	Linux 32-bit	UnixWare v2.x	UnixWare 7.x	Open Server 5.x	NetWare 3.12, 3.2 Server	NetWare 4.11 Server	NetWare 5.0 Server
	FEATURE										
	TLB	•		•						•	•
	SLB	•		•						•	•
	NFT	•		•		•	•			•	•
	PCI Hot Plug	•*		•*						•	•
	Configuration Utility	•		•							
	DMI 2.0	•	•	•					•	•	•
	SNMP	•	•	•	•				•	•	•
	Unattended Install	•		•					•	•	•
	SmartStart	•		•	•				•	•	•
	WBEM	•	•	•	•	•	•	•	•	•	•
	Compaq Insight Manager	•	•	•	•	•	•	•	•	•	•
	Compaq Insight Manager XE	•	•	•	•	•	•	•	•	•	•
	IML	•		•	•	•	•	•			

*Windows 2000; Hot Plug add/replace; NT4.0; Hot Plug replace only

SPECIFICATIONS *(continued)*

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. Call 1-800-OK-COMPAQ.

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 1-800-386-2172. For customer support and information about Compaq and its products, call 1-800-OK-COMPAQ.