

MODELS

Compaq NC3131 Fast Ethernet Adapter 64 PCI Dual Base 10/100

338456-B21

With this Fast Ethernet Adapter and the optional upgrade modules, Compaq has the only industry-standard, flexible transition path from Ethernet to Fast Ethernet to Bonded Fast Ethernet to Gigabit.

Optional Upgrade Modules for use with 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

NC3132 Fast Ethernet Dual 10/100 Upgrade Module

338456-B22

Fast Ethernet Server Adapters:

NC3134 Fast Ethernet NIC 64 PCI Dual Base 10/100

138603-B21

NC3123 PCI, 10/100 WO

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

OVERVIEW

The NC3131 is a modular network adapter that provides a scalable transition path from Ethernet to Fast Ethernet to Bonded Fast Ethernet to Gigabit network connections. The Compaq NC3131 Fast Ethernet Adapter includes two 10/100BASE-TX ports with optional upgrade modules for two additional 10/100BASE-TX ports, a single 100FX port or a Gigabit Ethernet port (SX or LX).

The NC3131 provides a cost-effective transition for server adapter upgrades. Its modular design enables additional fault-tolerant redundancy and the ability to upgrade to higher network performance without having to replace the base adapter.

PERFORMANCE

64-bit Bus

Efficient data transfer between the network and PC is essential for high-performance and low CPU utilization. The NC3131 includes a 32/64-bit PCI Universal Connector to work in either 32- or 64-bit bus slots.

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 NC3131. 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.

Bus-mastering

The NC3131 uses bus-mastering technology to maximize throughput and minimize CPU utilization.

COMPAQ

EASE OF USE

Plug and Play

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

Common Driver Support

The NC3131 drivers can be used for all Compaq 10 or 100 Mbps NC 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.

Auto-negotiation

The NC3131 senses for 10 or 100 Mbps and half- or full-duplex and automatically configures to the highest common network connection speed between the adapter and hub or switch port.

SECURITY/RELIABILITY

Network Fault Tolerance (NFT)

The Network Fault Tolerance feature of the NC3131 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 NC3131 can be configured to fail over to any NC31xx, NC61xx, or NC71xx adapter by using the latest drivers.

PCI Hot Plug

The NC3131 includes PCI Hot Plug support that enables PCI network controllers to be replaced or added to a 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 NC3131 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

Server Integration

Compaq's *SmartStart™* configuration utility includes setup support for the NC3131 so that the adapter can be configured as part of the SmartStart configuration process. Compaq Insight Manager can recognize the NC3131 individually or in port bonded teams, and can collect and report SNMP statistics on the adapter events. The Compaq Network Management System can also collect and report SNMP statistics on the NC3131.

Integrated Management Log (IML) support is provided by the NC3131 for critical event logging on Compaq servers.

Configuration Utilities

Each NC3131 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

For each port, LEDs show link integrity, network speed, and network activity at a glance for easy troubleshooting.

SPECIFICATIONS

General Specifications

Dual port 10/100BASE-TX base card
Both ports IEEE 802.3/802.3u 10BASE-T and 100BASE-TX compatible
32-/64-bit PCI bus-master interface
Base card upgradable to additional two ports of 10/100BASE-TX or Gigabit Ethernet SX/LX
EEPROM support for configuration and customization feature section
Single RJ-45 connector for each port
Cable support – Cat. 3, 4, 5 UTP for 10 Mbps and Cat. 5 UTP for 100 Mbps
Support for IEEE 802.3u Auto-Negotiation
Full- or half-duplex capable at 10 or 100 Mbps on both ports

Power and Environmental Specifications

Operating

Temperature 32° to 131°F/0° to 55°C
Humidity 10% to 90% (relative)

Non-operating

Temperature -85° to 185°F/-65° to 85°C
Humidity 5% to 95% (relative)

Power requirement 1050mA @ 5V maximum

Emissions Standards FCC Class B
FCC Class B

Safety Compliant CE Mark

Dimensions (LxW)

7.4 x 5 in/18.8 x 12.7 cm

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
IMS-DOS Client for unattended install
OS/2 Warp Server

Kit Contents

NC3131 hardware
Loop back cable
CD-ROM: software and documentation
Quick Install card
Product warranty statement

SPECIFICATIONS *(continued)*

Software Feature Support by Operating System

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