

QUICKSPECS

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

MODELS

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Fast Ethernet NIC
64 PCI Dual Base 10/100
338456-B21

With this Fast Ethernet NIC and the optional upgrade modules, Compaq is the first to introduce an industry-standard, flexible transition path from Ethernet to Fast Ethernet to Bonded Fast Ethernet to Gigabit.

Optional Upgrade Modules

Fast Ethernet
NC3132: Dual 10/100
Upgrade Module
338456-B22

NC3133: 100 FX Upgrade
Module
338456-B25

Gigabit
NC6132: 1000 SX Upgrade
Module
338456-B23

NC6133: 1000 LX Upgrade
Module
338456-B24

Fast Ethernet NIC Family
NC3120: PCI, 10/100
317600-B21

NC3123: PCI, 10/100 WOL
174830-B21

NC3122: PCI Dual 10/100
317450-B21

Gigabit Ethernet NIC Family
NC6134: 1000 SX 64 PCI
Gigabit NIC
174818-B21

Overview

Compaq introduces the industry's first modular network interface controller that provides a scalable transition path from Ethernet to Fast Ethernet to Bonded Fast Ethernet to Gigabit network connections. The Compaq NC3131 Fast Ethernet NIC includes two 10/100 Base-TX ports with optional upgrade modules for two additional 10/100 Base-TX ports or a Gigabit port.

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

EASE OF USE

Plug and Play

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

Common Driver Support

The NC3131 operating system drivers can be used for all Compaq Intel-based 10 or 100 Mbps network connections. 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 NIC and hub or switch port.

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 Bonding¹

Adaptive Load Balancing (ALB) and Cisco's Fast EtherChannel are two port bonding methods supported by the NC3131. ALB provides both failover and balancing of transmit traffic across NICs for increased performance. For even higher performance, Cisco's Fast EtherChannel provides port failover and balancing of transmit and receive traffic across all NICs.

Bus-mastering

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

SECURITY/RELIABILITY

Network Fault Tolerance (NFT)

This feature enables the NIC to keep an active connection if a switch or hub link fails by automatically switching to a backup NIC.

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.

Warranty

Limited, lifetime warranty²

NETWORK MANAGEMENT

Standards-based

The NC3131 supports the following industry network management standards to work with a broad spectrum of software utilities:

- 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 NIC 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 NIC 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.

CPOSET+

The CPOSET+ enhanced installation utility allows the user to run initial diagnostics and configure NIC teams for ALB or other high-availability options.

Diagnostic LED Indicators

For each port, LED Indicators 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
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 max
Emissions standards	FCC Class A FCC Class B
Safety compliance	CE Mark

Dimensions (LxW) 7.4 x 5 in/18.8 x 12.7 cm

SPECIFICATIONS *(continued)*

Operating System Support

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
Microsoft Windows 2000
Microsoft Windows 98
Microsoft Windows 95
NetWare DOS Client
MS DOS Client
OS/2 Warp Server

Operating System Support

Microsoft Windows NT 3.51 and 4.0
SCO UnixWare 7.x 32-bit
SCO UnixWare v2.x
NetWare Server 3.12, 4.1x, and 5.x

Kit Contents

Open Server 5.x
NIC hardware
Loop back cable
CD-ROM software
Read This First card
Quick Install card
Product warranty statement
Reference guide

Software Feature Support by Operating System

Feature	Windows NT 3.51	Windows NT 4.0	UnixWare v2.x	UnixWare 7.x	Open Server5.x	NetWare 3.12, 3.2 Server	NetWare 4.11 Server	NetWare 5.0 Server
ALB		.					•	•
FEC		.					•	•
NFT		.					•	•
PCI Hot Plug		. *					•	•
CPOSET+		.						
DMI 2.0	.	.				•	•	•
SNMP	.	.				•	•	•
Unattended Install		.						
SmartStart		.				•	•	•
WBEM	•	•	•	•
Insight Mgr.	•	•	•	•
CNMS	•	•	•	•
IML		.	.	.	•			

*Hot Plug Replace only

COMPATIBILITY

Workstations

Compaq Professional Workstation SP700

Servers

Compaq ProLiant 8500
Compaq ProLiant 8000
Compaq ProLiant 7000 Xeon™
Compaq ProLiant 6500 Xeon
Compaq ProLiant 6000 Xeon
Compaq ProLiant 5500R Xeon
Compaq ProLiant 5500 Xeon
Compaq ProLiant 3000R 6/450
Compaq ProLiant 3000 6/450
Compaq ProLiant 1850R
Compaq ProLiant 1600R (100 MHz)
Compaq ProLiant 1600 (100 MHz)
Compaq ProLiant 800 6/350E, 6/400, 6/450 MHz
Compaq ProLiant 400

¹ For further information on Compaq networking products, contact Compaq Networks and Access Communications Division Sales at 1-800-544-5255 or the Compaq Networking 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.

² Certain restrictions and exclusions apply. Contact 1-800-OK-COMPAQ for details. In Canada consult the Product Information Center at 1-800-567-1616 for details.