

Overview

Models

Compaq NC3135 Fast Ethernet Module Dual 10/100 Upgrade for the NC3134 138604-B21

With this Fast Ethernet upgrade module and Gigabit upgrade modules, Compaq is the only provider of an industry-standard, scalable transition path from Ethernet to Fast Ethernet to Bonded Fast Ethernet to Gigabit.

Optional Upgrade Modules:

NC6133 1000 LX Upgrade Module	338456-B24
NC6132 1000 SX Upgrade Module	338456-B23
NC3133 100 FX Upgrade Module	338456-B25
NC3132 Dual 10/100 Upgrade Module	338456-B22

Fast Ethernet Server Adapters:

NC3134 Fast Ethernet Server Adapter 64, PCI, Dual Base 10/100	138603-B21
NC3131 Fast Ethernet Server Adapter 64, PCI, Dual Base 10/100	338456-B21
NC3123 Fast Ethernet Server Adapter PCI, 10/100 Wake on Lan	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

Introduction

The Compaq NC3135 Fast Ethernet Module provides two additional 10/100BASE-TX ports for the NC3134 or NC3131 Fast Ethernet server adapter. The upgrade module provides a scalable transition path from Ethernet to Fast Ethernet to Bonded Fast Ethernet.

The NC3135 contributes additional redundancy and bandwidth to the server without having to change the server adapter or the operating system driver.

Performance

64-bit/66-MHz Bus Support

The NC3135 uses the NC3134 base card connector, which is a 32-/64-bit PCI Universal Connector for operation in 32- or 64-bit PCI slots, and it supports both 33- and 66-MHz bus speeds.

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 NC7131. 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.

Performance Enhancements

Interrupt Coalescence and receive checksum offload capabilities lower the CPU utilization of the NC3134 when it runs in a Windows 2000 environment.

Bus-mastering

The NC3135 uses bus-mastering technology to maximize throughput and minimize CPU utilization.

QuickSpecs

Compaq NC3135 Fast Ethernet Module Dual 10/100 Upgrade Module for NC3131 and NC3134

Overview

Ease of Use

Plug and Play

The NC3135 plugs into the NC3134 or NC3131 Fast Ethernet Server Adapter without requiring any tools. Fully compliant with the 2.2 PCI specification, the NC3135 upgrade module automatically configures its I/O address and interrupt settings for easy installation.

Extensive Driver Support

The NC3135 uses the same operating system drivers as the NC3134 and no driver change is required when moving from 10 to 100 Mbps. In addition, these same drivers can be used for all Compaq Intel-based 10 or 100 Mbps server adapters. Common drivers provide consistency, easy management, and support to save money and time.

Auto-negotiation

The NC3135 senses for 10 or 100 Mbps and half- or full-duplex and automatically configures to the highest network connection speed between the adapter and hub or switch port.

Security/Reliability

Network Fault Tolerance (NFT)

The Network Fault Tolerance feature of the NC3135 ensures that the server can always keep an active link. Using either of the ports on the base adapter or after installing a second, compatible adapter, if the primary network connection fails for any reason, the second, backup port or adapter will automatically take over, retaining the network connection.

PCI Hot Plug

The NC3135 includes PCI Hot Plug support that enables PCI networking 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 NC3135 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)
- Unattended Install

Server Integration

Compaq's SmartStart configuration utility includes setup support for the NC3135 server adapter so that it can be configured as part of the SmartStart configuration process in Compaq servers. Compaq Insight Manager can recognize the NC3135 individually or in port bonded teams, and can collect and report SNMP statistics on adapter events. The Compaq Network Management System (CNMS) can also collect and report SNMP statistics on the NC3135. Integrated Management Log (IML) support is provided by the NC3135 for critical event logging on Compaq servers.

Configuration Utilities

Each NC3135 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, bi-colored LED Indicators show link integrity, network speed, and network activity "at-a-glance" for easy troubleshooting.

QuickSpecs

Compaq NC3135 Fast Ethernet Module Dual 10/100 Upgrade Module for NC3131 and NC3134

Technical Specifications

General Specifications	Both ports IEEE 802.3/802.3u 10BASE-T and 100BASE-TX compatible		
	Single RJ-45 connector for each port		
	Support for IEEE 802.3u Auto-Negotiation		
	Full- or half-duplex capable at 10 or 100 Mbps on both ports IEEE802.3x flow control support		
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	375mA @ 5VDC	
	Emissions standards	FCC Class A	
		FCC Class B	
	Safety compliance	CE Mark	
Dimensions (L x W)	5.7 x 3.9 in/14.5 x 9.9 cm		
Operating System Support	Windows 2000		
	Windows NT 4.0		
	Novell NetWare 5.x Server		
	Novell NetWare 4.x Server		
	Novell NetWare 3.x Server		
	SCO UnixWare 7.x		
	SCO OpenServer 5.x		
	NetWare DOS Client for unattended installation MS-DOS Client for unattended installation OS/2 Warp Server		
Kit Contents	NC3135 hardware		
	Loop back cable		
	CD-ROM: software and documentation		
	Quick Install Guide		
	Product warranty statement		

QuickSpecs

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	*	*	*	*	*	*		

(1) 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.

© Copyright 2003 Hewlett-Packard Development Company, L.P.

The information contained herein is subject to change without notice.

Windows is a US registered trademark of Microsoft Corporation.

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.