

Overview

Models

Intel Gigabit CT Desktop NIC

FH969AA

Introduction

The Intel Gigabit CT Desktop NIC provides a complete end-to-end Gigabit solution from the server to the switch infrastructure and down to the desktop and workstation. Overall network reliability is improved by using Gigabit Ethernet.

Just as networks migrated from 10-Mbit to 100-Mbit and gained a 10-fold improvement, the same will be true when moving from 100-Mbit to Gigabit. By alleviating congestion and removing bottlenecks, the network simply performs better. Gigabit Ethernet's dramatic increase in popularity is based on its scalable performance, flexibility, ease of implementation and lowered costs approaching 10/100 Ethernet. As the trend for bandwidth-intensive applications continues, the need for high-performance connectivity solutions will fuel the Gigabit transition.

By bringing Gigabit to the Desktop, many benefits are achieved for network administrators and for end users. Deploying Gigabit to the desktop is no longer an unattainable feat; it is a reality that is being achieved due to three items - affordability, ease of deployment, and performance benefits.

Key Benefits

- End-to-end Gigabit solution
 - Better network performance by alleviate congestion and removing bottlenecks
 - High-performance connectivity solution for your LAN
 - Interrupt moderation - significantly reduces CPU utilization and increases throughput
 - ACPI, WOL, PXE - allows lower power consumption, remote wake and remote booting
 - Advanced Cable diagnostics - dynamically tests and reports network problems (interrupts, error rate, cable length) and automatically compensates for cable issues
 - PCI-E v1.0a compliant
 - Optimized transmit and receive queues
 - Support for ACPI WOL (wake on LAN), Magic Packet, and OOB WOL.
 - A large 48Kbyte per port On-Chip memory
 - Jumbo Frames up to 16KB supports faster performance when the rest of the network/subnet also supports Jumbo Frames
 - Statistic counters for SNMP and RMON (802.3z, clause 30)
 - Multiple transmit and receive descriptor queues
 - Half and Full Duplex operation (10/100)
 - TCP, UDP and IP checksum offloads
 - TCP segmentation capability compatible with NT5.x offloading features
 - Remote cable management with diagnostics and fault isolation
 - Supports Advanced Network Services (ANS) Teaming. This feature lets you take advantage of multiple Intel network adapters in a system by grouping them together. ANS teaming can use features like fault tolerance and load balancing to increase throughput and reliability.
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Compatibility

The Intel Gigabit CT Desktop NIC is PCI-E 1.0a compliant and compatible with the HP Compaq 6000 Pro MT, HP Compaq 6000 Pro SFF, HP Compaq 6005 Pro MT, HP Compaq 6005 Pro SFF, HP Compaq 6200 Pro MT, HP Compaq 6200 Pro SFF, HP Compaq 6300 Pro MT, HP Compaq 6300 Pro SFF, HP Compaq 8200 Elite SFF, HP Compaq 8200 Elite CMT, HP Compaq 8200 Elite MT, HP Compaq 8300 Elite CMT, HP Compaq 8300 Elite MT, HP Compaq 8300 Elite SFF, and HP rp5800 Retail System.

NOTE: Please check this product's web page on HP.com for current compatibility information.

NOTE: Not all models available in all regions.

Service and Support

Your Option Limited Warranty is a one (1) year (HP Option Limited Warranty Period) parts replacement warranty on any HP-branded or Compaq-branded options (HP Options). If your HP Option is installed in an HP Hardware Product, HP may provide warranty service either for the HP Option Limited Warranty Period or the remaining Limited Warranty Period of the HP Hardware Product in which the HP Option is being installed, whichever period is the longer but not to exceed three (3) years from the date you purchased the HP Option.

Technical Specifications

Connector	RJ-45
Controller	Intel WG82574L Gigabit Ethernet Controller
Memory	Integrated Dual 48K configurable transmit receive FIFO Buffers
Data rates supported	10/100/1000 Mbps
Compliance	IEEE 802.1P, 802.1Q, 802.2, 802.3, 802.3AB and 802.3u compliant, 802.3x flow control
Bus architecture	PCI-E 1.0a
Data path width	X1, 250 MB/s, Bi-directional interface
Data transfer mode	Bus-master DMA
Hardware certifications	FCC, B, CE, TUV- cTUVus Mark Canada and United States, TUV- GS Mark for European Union
Power requirement	Aux 3.3V, 3.0 Watts in 1000base-T and 2.0 Watts in 100Base-T
Boot ROM support	Yes
Network transfer rate	10BASE-T (half-duplex) 10 Mbps 10BASE-T (full-duplex) 20 Mbps 100BASE-TX (half-duplex) 100 Mbps 100BASE-TX (full-duplex) 200 Mbps 1000BASE-T (full-duplex) 2000 Mbps
Environmental	Operating temperature 32° to 131°F (0° to 55° C) Operating humidity 85% at 131° F (55° C)
Dimensions	12.1 x 5.7 x 2.0 cm (4.75 x 2.25 x 0.8 in)
Operating system driver support	Windows 8 Pro*, Windows 8*, Windows 7 Professional 32-bit and 64-bit, Windows Vista Business 64, Windows Vista Business 32, Windows XP Professional, Windows XP x64. Red Hat Enterprise Linux 4 (RHEL4.8 or newer)*, Red Hat Enterprise Linux 5 (RHEL5.3 or newer), Red Hat Enterprise Linux 6, SUSE Linux Enterprise Desktop (SLED) 11 RHEL 4 and 5, SLED 10, are not supported on the Z220 CMT/SFF *NOTE: Windows 8 ready with download of new drivers.
Management capabilities	WOL , PXE, DMI, WFM 2.0
Kit contents	Intel Gigabit CT Desktop NIC, low profile bracket, CD containing Intel PROset II NIC drivers, quick install guide, product warranty statement

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