

# QuickSpecs

## Intel Pro 1000 PT PCI Express Gigabit NIC

### Overview

### Models

Intel Pro 1000 PT PCIe Gigabit NIC Card

EH352AA

### Introduction

The Intel Pro 1000 PT PCIe Gigabit NIC Card 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.
- 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.



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### Compatibility

The Intel Pro 1000 PT PCIe Gigabit NIC Card is PCI-E 1.0a compliant and compatible with all HP Compaq Business Desktops (except ultra-slim desktops) as well as HP xw4300, xw4600, xw6200, xw6600, xw8200, xw8600 and xw9300 workstations.

**NOTE:** Not all models available in all regions.

**NOTE:** For customers who do not already have a PCIe Riser board installed in their dc7700 USDT for PCIe support, (EU054AA) USDT PCIe Riser Board AMO kit must be ordered for PCIe card support.

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### 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.



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### Technical Specifications

Connector	RJ-45
Controller	Intel 82572EI 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	<b>Operating temperature</b> 32° to 131°F (0° to 55° C) <b>Operating humidity</b> 85% at 131° F (55° C)
Dimensions	6.4 x 2.6 x 0.8 in (16.3 x 6.6 x 1.9 cm)
Operating system driver support	Windows Vista Business 64*, Windows Vista Business 32*, Windows Vista Home Basic 32*, Windows 2000, Windows XP Professional or Windows XP Home 32*. Red Hat Enterprise Linux (RHEL) WS4**, 5 Desktop/Workstation Novell SLED 10 & SLED 11 No driver is required for this device. Native support is provided by the operating system. * Certain Windows Vista product features require advanced or additional hardware. Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit: <a href="http://www.windowsvista.com/upgradeadvisor">http://www.windowsvista.com/upgradeadvisor</a> . For Windows Vista system requirements, visit: <a href="http://www.windowsvista.com/systemrequirements">http://www.windowsvista.com/systemrequirements</a> . ** RHEL WS4 not supported on Z200/Z200SFF
Management capabilities	ASF, WOL, PXE, DMI, WFM 2.0.
Kit contents	Intel Pro 1000 PT PCI Express Gigabit NIC Card, low profile bracket, CD containing Intel PROset II NIC drivers, quick install guide, product warranty statement

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