PRODUCT BRIEF Intel® Gigabit CT Desktop Adapter Network Connectivity

PCIE-8231

Gigabit CT Desktop Adapter

Bringing PCI Express* Gigabit Performance to the Desktop



Connectivity You Can Count On

For PCs with PCI Express* (PCIe*) slots, the Intel® Gigabit CT Desktop Adapter offers the newest technology for maximizing system performance and increasing end-user productivity. Specifically, the Intel Gigabit CT Desktop Adapter uses auto-negotiation to ensure the adapter runs at the highest available network speed (10, 100, or 1000 Mbps), and maintains full bandwidth capacity with the dedicated bandwidth of a PCle input/output (I/O) bus to provide connectivity you can count on. Based on the low-power Intel® 82574L Gigabit Ethernet Controller, this desktop adapter offers optimal performance in a low-cost, low-power, compact profile. Teaming support and an array of other advanced features enable customers to use this adapter as an entry-level server adapter as well.

Enhancing Desktop Performance Enhances Network Performance

Fast servers and server connections are important for high network performance. However, server speed cannot overcome the drag of slow desktop performance. When a desktop PC initiates a transaction with the network server, the server quickly performs its portion of the transaction, but must wait for the desktop PC to complete its part of the transaction. The slower the PC, the longer the server must wait for transaction completion before moving to the next transaction. With PCIe Gb performance to the desktop, transactions on the PC side complete significantly faster, allowing the network to service more transactions faster.

PCI Express Makes Gigabit Ethernet Even Faster

PCI Express is the third-generation I/O standard with performance that supercedes the previous PCI and PCI-X* slot standards. The key to PCIe performance is its higher dedicated I/O bandwidth. Unlike the PCI bus, which shares its I/O resources with all devices on the bus, PCIe dedicates its I/O to a single device. The Intel Gigabit CT Desktop Adapter allows you to take advantage of this dedicated I/O by combining Gigabit Ethernet with PCI Express to provide high-performance network connectivity for desktops with PCI Express slots. Make the Intel Gigabit CT Desktop Adapter your choice for applications utilizing rich media content such as video streaming, web applications, music, and gaming.

Quick and Easy Installation

Like all Intel[®] Network Adapters, the Intel Gigabit CT Desktop Adapter is supported by Intel[®] PROSet Utility for Microsoft^{*} Device Manager and Intel[®] PRO intelligent install. Intel PROSet simplifies adapter installation and gives you point-andclick power for configuring and managing all of your Intel Network Connections



Intel® CT Desktop Adapter Features and Benefits

Features	Benefits		
Intel® 82574L Gigabit Ethernet Controller	High performance and reliability; low power		
Interrupt moderation	Delivers increased performance while significantly reducing CPU usage		
PCI Express* x1 slot compatible	Designed for high performance on PCI Express desktop architecture while maintaining compatibility with PCI applications		
Compatible with Fast Ethernet and Ethernet	Reduces deployment and training costs and enables easy, quick migration to Gigabit Ethernet		
10/100/1000 Mbps auto-negotiation	Automatically compatible with Ethernet, Fast Ethernet, and Gigabit Ethernet networks		
Support for most network operating systems	Enables widespread deployment		
Advanced configuration and power interface (ACPI); Wake on LAN* (WoL); Preboot Execution Environment (PXE)	Enables low-power consumption, remote wake, and remote booting		
Remote Management Support	Reduces support costs with remote management based on industry-wide standards		
Intel® PROSet Utility for Microsoft* Device Manager	Provides point-and-click power over individual adapters, advanced adapter features, connection teaming, and virtual local area network (VLAN) configuration		
Advanced cable diagnostics	Dynamically tests and reports network problems (error rate, cable length) and automatically compensates or cable issues (cross-over cable, wrong pin-out/polarity)		
Intel backing	Backed by an Intel® limited lifetime warranty, 90-day, money-back guarantee (U.S. and Canada), and worldwide support		
Optimized queues: 2 Transmit (Tx) and 2 Receive (Rx) Efficient packet prioritization		
MSI-X support	Minimizes the overhead of interrupts		
	 Allows load balancing of interrupt handling between different cores/CPUs 		

Order Codes

PCIE-8231

Companion Products

Consider these Intel[®] products in your server and network planning:

- Intel® 10 Gigabit Server Adapters for PCI and PCI Express Interfaces
- Intel[®] PRO/1000 Server Adapters
- Copper or fiber-optic network connectivity, up to four ports per card
- Solutions for PCI Express, PCI-X*, and PCI interfaces
- Intel[®] PRO/1000 Desktop Adapters for PCI Express and PCI interfaces
- Other Intel® Desktop and Server Adapters
- Intel[®] Xeon[®] Processors
- Intel[®] Server Boards



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	SLES* 9 SP4			11.92 cm (4.696 in)	
FreeBSD*7.0 Height of end bracket 12 cm (4.725 in)	SLES* 10 SP1		Width	5.53 cm (2.181 in)	
	FreeBSD* 7.0		Height of end bracket	12 cm (4.725 in)	

