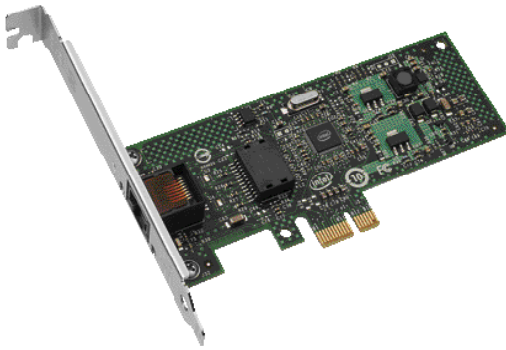


Intel® Gigabit CT Desktop Adapter

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 PCIe 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-and-click 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 for 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	<ul style="list-style-type: none">▪ Minimizes the overhead of interrupts▪ Allows load balancing of interrupt handling between different cores/CPU's

Order Codes

Single Unit: EXPI9301CT
Bulk Pack: EXPI9301CTBLK
(order 20, get 20)²

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

Customer Support

Intel® Customer Support Services offers a broad selection of programs including phone support and warranty service. For more information, contact us at support.intel.com/support/network/.

Service and availability may vary by country.

For Product Information

To speak to a customer service representative regarding Intel products, please call 1-800-538-3373 (U.S. and Canada) or visit support.intel.com/support/9089.htm for the telephone number in your area. For additional product information, visit www.intel.com/go/ethernet.

Specifications

General		Network Operating Systems (NOS) Software Support (cont.)	
Product Codes	<ul style="list-style-type: none"> EXPI9301CT EXPI9301CTBLK (Order 20, get 20) 	DOS*	
Connectorst	<ul style="list-style-type: none"> RJ45 	DOSDI*	
IEEE standards/network topology	<ul style="list-style-type: none"> 10/100/1000BASE-T 	SCO OpenServer 6/Unixware* 7.1.x	
Wiring	<ul style="list-style-type: none"> Category-5 UTP, 4-pair 	Novell Netware* 6.5	
Platform Feature	<ul style="list-style-type: none"> User benefit as single-line bullets 	Xen*	
Platform Feature	<ul style="list-style-type: none"> User benefit as single-line bullets 	FreeBSD* 5.x or later	
Platform Feature	<ul style="list-style-type: none"> User benefit as single-line bullets 	ESX* 3.x* support (for VMware)	
Adapter Product Features		Intel Backing	
Intel* PROSet Utility for easy configuration and management		Limited lifetime warranty	
RoHS1		90-day, money-back guarantee (U.S. and Canada)	
Plug and play specification support	Standard	Advanced Software Features	
Auto-negotiation, full-duplex capable		Test switch configuration	Tested with major switch original equipment manufacturers (OEMs)
Integrated media access control (MAC) and physical layer (PHY)		TCP checksum offload	Transition control protocol (TCP), user diagram protocol (UDP), Internet protocol (IP)
Cable distance	100m Category-5 for 1000/100 Mbps; Category-3 for 10 Mbps	IEEE 802.1p*, Quality of Service (QoS) Support	
Ships with full-height bracket installed, low-profile bracket added in package		IEEE 802.1q*, VLAN Support	
Receive-side scaling (RSS)		TCP segmentation/large send offload	
9 KB jumbo frames		Teaming support	
Network Management		Interrupt moderation	
Wired for Management (WfM) baseline v2.0 enabled for servers		Tx/Rx IP	
DMI 2.0 support and Windows Management Instrumentation (WMI)		Technical Features	
Instrumentation (WMI) and SNMP-Remote Installation Services (RIS)		Data rate supported per port	10, 100, and 1000 Mbps
ACPI* 1.0 power management		Bus type	PCI Express 1.1 (2.5 GT/s)
Wake on LAN* support over PCI Express*		Bus width	x1 lane PCI Express operable in x1, x4, x8, x16 slots
PXE 2.0 enabled through boot read-only memory (ROM)		Bus speed (x1, encoded rate)	2.5 Gbps uni-directional; 5 Gbps bi-directional
Network Operating Systems (NOS) Software Support		Interrupt levels	INTA, MSI, MSI-X
Windows* 2000		IEEE support	802.3z*
Windows* Server 2003		Hardware certifications	FCC B, UL, CE, VCCI, BSMI, CTICK, MIC
Windows* Server 2008		Controller-processor	Intel* 82574L
Windows Professional XP* SP3		Typical power consumption	1.9 W
Windows Vista* SP1		Operating temperature	0° C to 55° C (32° F to 131° F)
Linux* RHEL 4.6		Storage temperature	-40° C to 70° C (-40° F to 158° F)
Linux* Kernel version 2.6.24		Storage humidity	90% non-condensing relative humidity at 35° C
Linux* Kernel version 2.4.36.2		LED Indicators	LINK/ACTIVITY LED: off=NO LINK; on=LINK; blinking=ACTIVITY; SPEED LED: off=10 Mb; green=100 Mb; yellow=1000 Mb
RHEL* 5.1		Physical Dimensions	
SLES* 9 SP4		Length	11.92 cm (4.696 in)
SLES* 10 SP1		Width	5.53 cm (2.181 in)
FreeBSD* 7.0		Height of end bracket	12 cm (4.725 in)

For more information on the full line of Intel® Network Adapters for PCI Express*, please visit
<http://www.intel.com/products/ethernet/overview.htm>

¹ Lead and other materials banned in RoHS Directive are either: a) below all applicable substance thresholds in the EU or, b) an approved exemption applies.

² One driver CD per BLK SKU

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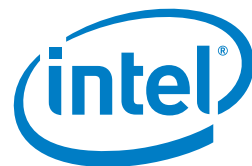
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- Техническая поддержка проекта;
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