

NIC-9201CT | PCIe Gigabit Ethernet Single RJ45 Port Network Interface Card - Datasheet



PCIe Gigabit Ethernet Single RJ45 Port Network Interface Card, PCI Express x1 Intel 82574 Chipset Desktop Network Adapter.

Connectivity You Can Count On

For PCs with PCI Express (PCIe) slots, the NIC-9201CT Desktop RJ45 NIC Card offers the newest technology for maximizing system performance and increasing end-user productivity. Specifically, the Intel Gigabit CT Desktop RJ45 NIC Card uses auto-negotiation to ensure the adapter runs at the highest available network speed (10,100, or 1000 Mbps), and it maintains full bandwidth capacity with the dedicated bandwidth of a PCI Express input/output (I/O) bus to provide connectivity you can count on. Based on the low-power Intel 82574L Gigabit Ethernet Controller, this desktop RJ45 NIC card offers optimal performance in a low-cost, low-power, compact profile. Teaming support and an array of other advanced features enable customers to utilize this adapter as an entry-level server adapter as well.



Enhancing Desktop 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 PCI Express Gigabit 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

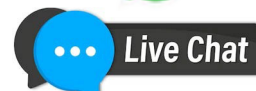
PCI Express is the third-generation I/O standard with performance that supersedes the previous PCI and PCI-X slot standards. The key to PCIe performance is its higher dedicated I/O bandwidth. Unlike the PCI bus, which shares its I/O resources with all devices on the bus, PCIe dedicates its I/O to a single device. The NIC-9201CT 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.



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Quick and Easy Installation

The NIC-9201CT Desktop RJ45 NIC Card 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.

Features

- RJ45 NIC Card Based Intel 82574L Gigabit Ethernet Controller
- Interrupt moderation
- PCI Express x1 slot compatible
- Compatible with Fast Ethernet and Ethernet
- 10/100/1000 Mbps auto-negotiation
- Support for most network operating systems
- Advanced configuration and power interface (ACPI); Wake on LAN (WoL); Preboot Execution Environment (PXE)
- RJ45 NIC Card Support Remote Management
- Intel PROSet Utility for Microsoft Device Manager
- Advanced cable diagnostics
- Intel backing
- Optimized queues: 2 Transmit (Tx) and 2 Receive (Rx)
- MSI-X support

Specifications

General

- Product code: NIC-9201CT
- Connectors:RJ-45
- IEEE standards/network topology:10/100/1000BASE-T
- Wiring: Category-5 UTP, 4-pair

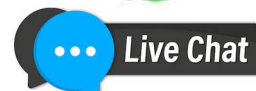
Adapter Product Features

- Intel PROSet Utility for easy configuration and management
- ROHS

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- Plug and play specification support: Standard
- Auto-negotiation, full-duplex capable
- Integrated media access control (MAC) and physical layer (PHY)
- Cable distance: 100m Category-5 for 1000/100 Mbps
- Category-3 for 10 Mbps
- 9 KB jumbo frames
- Ships with full-height bracket installed, low-profile bracket added in package

Network Management

- Wired for Management (WfM) baseline v2.0
- DMI 2.0 support and Windows Management
- Instrumentation (WMI) and SNMP-Remote Installation Services (RIS)
- ACPI 1.0 power management
- Wake on LAN support over PCI Express
- PXE 2.0 enabled through boot read-only memory (ROM)

Advanced Software Features

- Test switch configuration: Tested with major switch original equipment manufacturers (OEMs)
- TCP checksum offload C transition control protocol (TCP), user diagram protocol (UDP), Internet protocol (IP)
- IEEE 802.1p, Intel(R) Priority Packet 8
- TCP segmentation/large send offload
- Teaming support
- Interrupt moderation

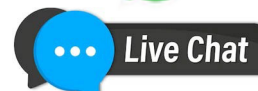
Technical Features

- Data rate supported per port: 10, 100, and 1000 Mbps
- Bus type: PCI Express 1.1 (2.5 GT/s)
- Bus width: x1 lane PCI Express operable in x1, x4, x8, x16 slots
- Bus speed (x1, encoded rate): 2.5 Gbps uni-directional; 5 Gbps bi-directional
- Interrupt levels: INTA, MSI, MSI-X
- IEEE support: 802.3z
- Controller-processor: Intel 82574L

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- Typical power consumption:1.9W
- Operating temperature: 0 to 55 Centigrade
- Storage temperature: -40 to 70 Centigrade
- Storage humidity: 90% non-condensing relative humidity at 35 Centigrade
- LED Indicators: LINK/ACTIVITY LED: off=NO LINK; on=LINK; blinking=ACTIVITY
- SPEED LED: off=10 Mb; green=100 Mb; yellow=1000 Mb

Network Operating Systems (NOS) Software Support

- Windows 2000
- Windows Server 2003
- Windows Server 2008
- Windows XP (Service Pack 2) [Service Pack 3 is to be released mid-year]
- Windows Vista (Service Pack 1)
- Linux RHEL 4.6
- Linux Kernel version2.6.24
- Linux Kernel version2.4.36.2
- RHEL 5.1
- SLES 9 SP4
- SLES 10 SP1
- FreeBSD 7.0
- DOS
- DOSODI
- SCO OpenServer 6/Unixware 7.1.x
- Novell Netware 6.5
- Xen
- FreeBSD 5.x or later
- ESX 3.x support (for VMware)



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