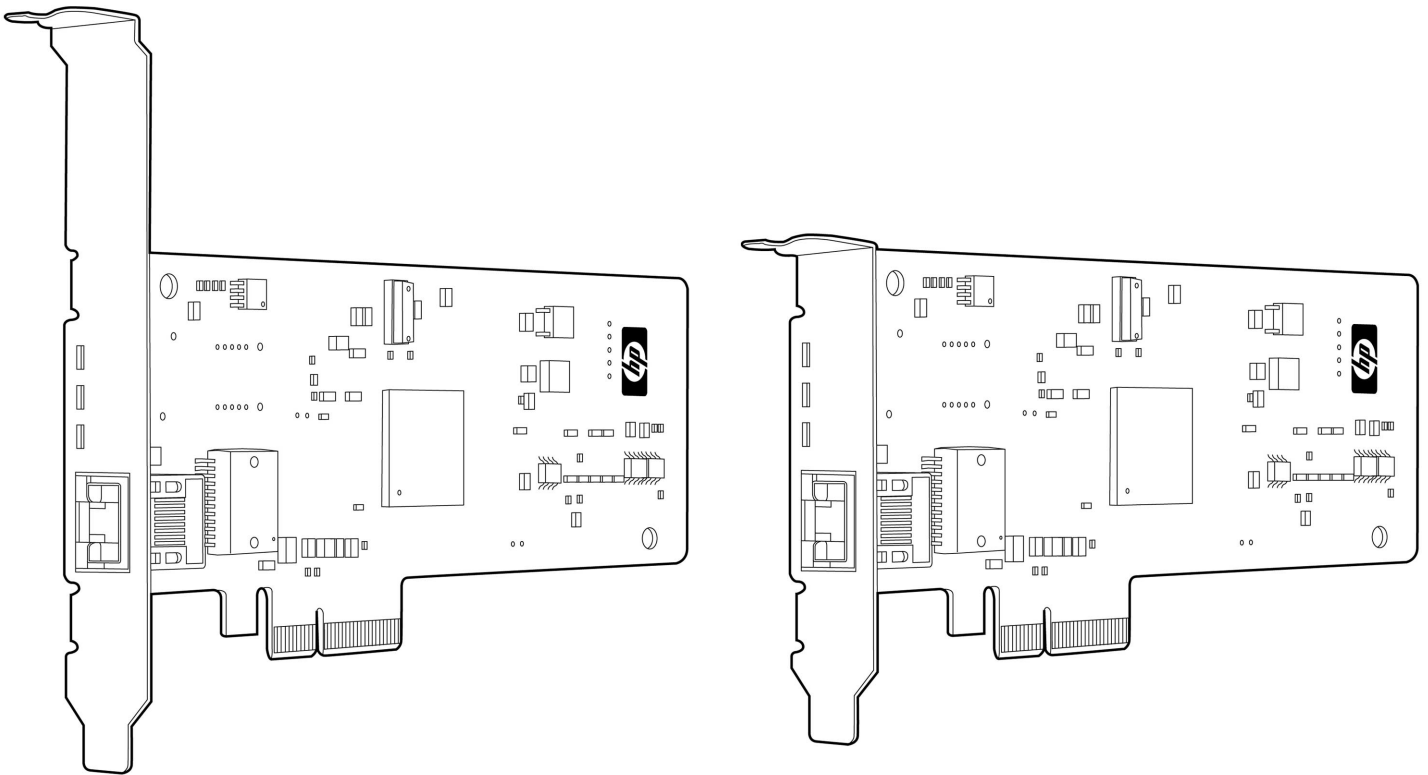


Overview

The HP NC373T is a high performance PCI Express Gigabit Ethernet multifunction network adapter for either standard or low profile (half height) slots in ProLiant servers running in a twisted pair (copper) network environment.

In addition to delivering standard Gigabit Ethernet networking, the NC373T supports TOE (TCP/IP Offload Engine) for Windows only and Internet Small Computer System Interface (iSCSI), over a single network connection making it a multifunction Ethernet server adapter.

Besides its multifunction capabilities, the NC373T ships with all the advanced server features that ProLiant customers have come to expect, such as support for failover and load balancing, Pre-Boot Execution Environment (PXE), large send offload capability, multiple VLAN tagging, and auto-negotiated 10/100/1000Mbps Ethernet speeds.



Models

HP NC373T PCI-E Multifunction Gigabit Server Adapter

394791-B21

Kit Contents

- NC373T PCI Express Multifunction Gigabit Server Adapter (standard height bracket attached) in an anti-static bag
- Low profile bracket (included)
- Product warranty statement and Quick Install Card (QIC)

Compatibility

Compatibility

Servers

ProLiant DL (rack-optimized):

- HP ProLiant DL120 G5
- HP ProLiant DL120 G6
- HP ProLiant DL120 G7
- HP ProLiant DL140 G2
- HP ProLiant DL140 G3
- HP ProLiant DL145 G2
- HP ProLiant DL145 G3
- HP ProLiant DL160 G5
- HP ProLiant DL160 G6
- HP ProLiant DL160se G6
- HP ProLiant DL165 G5
- HP ProLiant DL165 G6
- HP ProLiant DL165 G7
- HP ProLiant DL170h G6
- HP ProLiant DL180
- HP ProLiant DL180 G5
- HP ProLiant DL180 G6
- HP ProLiant DL185 G5
- HP ProLiant DL320 G3
- HP ProLiant DL320 G4
- HP ProLiant DL320 G5
- HP ProLiant DL320 G5p
- HP ProLiant DL320 G6
- HP ProLiant DL320s
- HP ProLiant DL360 G4p
- HP ProLiant DL360 G5
- HP ProLiant DL360 G6
- HP ProLiant DL360 G7
- HP ProLiant DL365
- HP ProLiant DL365 G5
- HP ProLiant DL370 G6
- HP ProLiant DL380 G4
- HP ProLiant DL380 G4 Packaged Cluster
- HP ProLiant DL380 G5
- HP ProLiant DL380 G6
- HP ProLiant DL380 G7
- HP ProLiant DL385 G2
- HP ProLiant DL385 G5
- HP ProLiant DL385 G5p
- HP ProLiant DL385 G6
- HP ProLiant DL385 G7
- HP ProLiant DL580 G3
- HP ProLiant DL580 G4
- HP ProLiant DL580 G5
- HP ProLiant DL580 G7
- HP ProLiant DL585 G2
- HP ProLiant DL585 G5

Compatibility

- HP ProLiant DL585 G6
- HP ProLiant DL585 G7
- HP ProLiant DL785 G5
- HP ProLiant DL785 G6

ProLiant ML (expansion-optimized):

- HP ProLiant ML110 G5
- HP ProLiant ML110 G6
- HP ProLiant ML110 G7
- HP ProLiant ML115 G5
- HP ProLiant ML115 G6
- HP ProLiant ML150 G5
- HP ProLiant ML150 G6
- HP ProLiant ML310 G5
- HP ProLiant ML310 G5p
- HP ProLiant ML330 G6
- HP ProLiant ML350 G4p
- HP ProLiant ML350 G5
- HP ProLiant ML350 G6
- HP ProLiant ML370 G4
- HP ProLiant ML370 G5
- HP ProLiant ML370 G6
- HP ProLiant ML570 G3
- HP ProLiant ML570 G4

ProLiant SL (scalable line):

- HP ProLiant SL160s G6
- HP ProLiant SL160z G6
- HP ProLiant SL165s G7
- HP ProLiant SL165z G6
- HP ProLiant SL165z G7
- HP ProLiant SL170s G6
- HP ProLiant SL170z G6
- HP ProLiant SL2x170z G6
- HP ProLiant SL390s G7

NOTE: This is a list of supported servers. Some may be discontinued and others added.

Standard Features

Performance

Gigabit Ethernet Throughput

10/100/1000Mbps Ethernet transfer rate delivers outstanding network performance that improves response time and removes bottlenecks across the entire network.

TCP/IP Offloading (for Windows only)

TCP/IP Offload Engine (TOE) for Windows only moves the processing of data in the TCP protocol stack from the server CPU to the network card, freeing CPU cycles for other duties. The NC373T supports TOE when Windows TOE Chimney, a part of Scalable Networking Pack available directly from Microsoft, is installed. With TOE, network communications are improved, and server efficiency is increased.

Accelerated iSCSI

Accelerated iSCSI allows the NC373T to multi-function as both as a network adapter and as a storage host bus adapter (HBA), thereby providing access to storage platforms and to servers over a single connection. Additionally, the NC373T offloads the iSCSI software to the hardware for improved performance. Accelerated iSCSI on 1GbE multifunction server adapters purchased as options ships as a standard feature, at no additional charge.

Load Balancing

Transmit Load Balancing (TLB) and Switch-Assisted Load Balancing (SLB) are two advanced features used to build a bigger pipe for improved networking bandwidth. These port bonding techniques enable users to use up to eight adapter ports in a ProLiant server and aggregate their throughput up to a theoretical maximum of 16 Gigabits per second full-duplex transmission. The NC373T can be configured with other NC-series Ethernet server adapter teams supported on ProLiant servers.

Checksum and Segmentation Offloads, and Interrupt Coalescing

When running as a standard Gigabit adapter, the NC373T features TCP Checksum Offloads as well as TCP Segmentation Offloads and Interrupt Coalescence. These features reduce the load on the CPU for overall improved system response. Interrupt Coalescence is a feature that groups multiple packets and issues a single interrupt to the host. This process improves host efficiency.

Scalability and Reliability

Network Fault Tolerance (NFT)

Network Fault Tolerance, sometimes called "failover" or "NIC redundancy," allows for the installation of multiple NC373T server adapters or other network adapters so that the active device can be backed up by a redundant adapter to improve availability. The HP teaming utility also allows users to specify that when a failed adapter is fixed and replaced, the original adapter resumes its function as the primary network connection.

Management Support

Like all HP server adapters, the NC373T ships with drivers and agents that can be managed from all versions of HP Systems Insight Manager, as well as using any management application that supports SNMP.

Server Integration

HP Systems Insight Manager can recognize the NC373T individually or in port-bonded teams, and can collect and report SNMP statistics on the adapter events. Additionally, Integrated Management Log (IML) support is provided by the NC373T for critical event logging on HP servers.

Standard Features

Configuration Utilities

Each NC373T ships with a set of utilities that allow the user to:

- Enable initial diagnostics within Windows, Linux, and DOS operating systems.
 - Configure network adapter teaming in a Windows environment. The Windows adapter teaming configuration utility includes a patented teaming GUI for Microsoft Windows 2000 and 2003 operating systems. Support for scripted installations of teams in a Microsoft Windows environment allow for unattended OS installations.
-

LED Indicator

Bracket LED indicators show link integrity, network activity, and network speed for easy troubleshooting.

Warranty**Warranty**

Additional information regarding worldwide limited warranty and technical support is available at:
<http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html>

Service and Support

Service and Support

HP Care Pack Services: Packaged server and storage services for increased uptime, productivity and ROI

When you buy HP server and storage products and solutions, it's also a good time to think about what levels of support you may need. Our portfolio of service options reduce deployment and management worries while helping you get the most out of your server and storage investments. We take a holistic approach to your environment, bridging servers, blades, storage, software and network infrastructures with our packaged HP Care Pack Services for servers and storage.

Protect your business beyond warranty

When it comes to robustness and reliability, standard computing equipment warranties have matured along with technology. Good news that can also create problems stemming from depending on standard warranties designed to only protect against product defects and some downtime causes. Using a standard approach to warranty uplifts, such as HP Care Pack Services, helps reduce downtime risks and provides operational consistency for mission-critical and standard business computing.

HP Care Pack Services: Upgrading or extending standard server and storage warranties cost effectively

HP Care Pack Services offer a standard reactive hardware and software support services suite sold separately, or combined with our Support Plus and Support Plus 24 services. The portfolio also provides a combination of integrated proactive and reactive services, such as Proactive 24 Service and Critical Service. In addition with HP Proactive Select, you can acquire the specific proactive constancy and technical services. HP Proactive Select menu offers a broad set of service options that you can mix and match depending on your specific requirements. Proactive service options include offers for server, storage, network, SAN device, software, environment and education services.

HP server and storage lifecycle support services offers a full spectrum of customer care—from technology support to complex migrations to complete managed services. HP Factory Express provides customization, integration and deployment services for turnkey solutions. HP Education Services offer flexible, comprehensive training on to help your IT staff get the most out of your server and storage investments. HP Financial solutions extend innovative financing and cost-effective asset management programs—from purchase to equipment retirement.

Learn more: www.hp.com/services/servers and www.hp.com/services/storage

NOTE: Care Pack Services availability may vary by product and country.

HP Care Pack Services are sold by HP and HP Authorized Service Partners:

- Services for customers purchasing from HP or an enterprise reseller are quoted using HP order configuration tools.
- Customers purchasing from a commercial reseller can find HP Care Pack Services at <http://www.hp.com/go/lookuptool>

Service and Support

Recommended HP Care Pack Services for optimal satisfaction with your HP product**Recommended Services** **Hardware Options Support**

HP Care Packs provide support for all HP-branded hardware options qualified for inclusion in your server or storage solution. Any additional HP-qualified options installed within the server are covered at the same service level and for the same period as the server and no additional cost.

- Help improve or maintain system uptime
- Convenient onsite support
- Committed response time

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EEE>

3-Year HP Hardware Support Onsite Service, 4-hour response, 24x7

Provides you with rapid remote support and if required an HP authorized representative who will arrive on site any time and day of the year to begin hardware maintenance service within 4 hours of the service request being logged.

This service provides a trained HP service specialist to perform an installation that meets HP quality standards, for:

- Help improve or maintain system uptime
- Convenient onsite support
- Committed response time

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EEE>

HP Installation and Startup of HP ProLiant Servers

Provides for the installation of your new HP ProLiant server and operating system to assist you in bringing your new HP ProLiant server and operating system into operation in a timely and professional manner.

This service provides a trained HP service specialist to perform an installation that meets HP quality standards, for:

- Delivery of the service at a mutually scheduled time convenient to your organization
- Availability of an HP service specialist to answer basic questions during the onsite delivery of this service
- Custom installation as detailed in "Delivery specifications" or in a Statement of Work (SOW)
- Verification prior to installation that all service prerequisites are met

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5982?7572ENN>

Service and Support

Optional HP Care Pack Services that will enhance your HP product experience**Optional Services****3-Year HP Hardware Support Onsite Call-to-Repair (CTR) Service, 6- or 24-hour**

As an alternative to our recommended support level, for customers who need committed call-to-repair for server hardware.

Provides your IT manager with a team of support specialists who will quickly begin troubleshooting the system to help return the hardware to operating condition within 6 or 24 hours of the initial service request to the HP Global Solution Center.

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EN.pdf>

3-Year HP Support Plus 24

As an alternative to our recommended support level, for customers who need access to responsive 24x7 hardware and software support plus software updates on HP and selected third party products:

For a higher return on your server and storage technology, our 3-year combined reactive support service delivers integrated onsite hardware/software support services available 24x7x365, including access to HP technical resources, 4-hour response onsite hardware support and software updates.

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-6638EEE>

HP Proactive Select Service

Customer needs on demand access to consulting, technical proactive services and education courses

Provides a flexible way to purchase HP best-in-class consultancy and technical services. You can buy Proactive Select Service Credits when you purchase your hardware and then use the credits over the next 12 months.

<http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA2-3842ENN>

eSupport

HP eSupport is a portfolio of technology-based services that assist you with managing your business environment - from the desktop to the data center.

Support Portal

The HP support portal provides one-stop access to the information, tools and services you need to manage the daily operations of your IT environment.

Features include:

- Access to self-solve tools (including search technical knowledge base)
- Efficient logging and tracking of support cases
- Collaboration with other business and IT professionals
- Download of patches and drivers
- Access to diagnostic tools
- Proactive notification of relevant information

Access to certain features of the support portal requires an HP service agreement. To access the support portal, visit: <http://www.hp.com/support>

Service and Support

HP Insight Remote Support software delivers secure remote support for your HP Servers and Storage, 24 X 7, so you can spend less time solving problems and more time focused on your business. You can have your systems remotely monitored for hardware failure using secure technology that's been proven at thousands of companies around the world. In many cases, you can avoid problems before they occur.

Customer Technical Training

In today's cost-conscious business environment, IT professionals, developers, consultants and users face an interesting challenge: how to keep up with the latest technologies and expand important skills while delivering profitable results on current projects. To help address this challenge, HP offers innovative training solutions that help keep you up-to-date on virtualization, server, storage, Insight Control, Citrix, Microsoft® and open source/Linux-related topics-while spending less time away from business-critical activities.

HP Services Awards

HP Technology Services continues to be recognized for service and support excellence by customers, partners, industry organizations and publications around the world. Recent honors and award reflect our services team's dedications, technical expertise, professionalism and uncompromising commitment to customer satisfaction.

Additional Services Information

To learn more on HP ProLiant servers, HP BladeSystem servers and HP storage products, please contact your HP sales representative or HP Authorized Channel Partner. Or visit: www.hp.com/services/proliant or www.hp.com/services/bladesystem or <http://www.hp.com/services/storage>

Related Options

Gigabit Server Adapters	HP NC112T PCI Express Gigabit Server Adapter	503746-B21
	HP NC360T PCI-E Dual Port Gigabit Server Adapter	412648-B21
	HP NC364T PCI-E Quad Port Gigabit Server Adapter	435508-B21
	HP NC365T 4-port Ethernet Server Adapter	593722-B21
	HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter	394793-B21
	HP NC375T PCI Express Quad Port Gigabit Server Adapter	538696-B21
	HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter	458492-B21
	HP Ethernet 1Gb 4-port 331T Adapter	647594-B21
	HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
HP Ethernet 1Gb 2-port 361T Adapter	652497-B21	

10 Gigabit Server Adapters

NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.

HP NC522SFP Dual Port 10GbE Gigabit Server Adapter	468332-B21
HP NC523SFP 10Gb 2-port Server Adapter	593717-B21
HP NC524SFP Dual Port 10GbE Module	489892-B21
NOTE: NC524SFP is available only on DL370 G6, ML370 G6, DL580 G7, DL585 G7, and DL980 G7.	
HP NC550SFP Dual Port 10GbE Server Adapter	581201-B21
HP NC552SFP 10Gb 2-port Ethernet Server Adapter	614203-B21
HP Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
HP Ethernet 10Gb 2-port 530T Adapter	656596-B21
HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
HP Ethernet 10Gb 2-port 561T Adapter	716591-B21
HP Ethernet 10Gb 2-port 570SFP+ Adapter	718904-B21

FlexibleLOM Adapters

NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.

Ethernet Adapters

HP Ethernet 1Gb 4-port 331FLR Adapter	629135-B21
HP Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter	647581-B21
HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21
HP Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21
HP Ethernet 10Gb 2-port 570FLR-SFP+ Adapter	717491-B21

FlexFabric Adapters

HP FlexFabric 10Gb 2-port 526FLR SFP+ Adapter	629138-B21
HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
HP FlexFabric 10Gb 2-port 554FLR-SFP+ Adapter	629142-B21

NOTE: Please see the QuickSpecs for Technical Specifications and additional information: www.hp.com/go/ProLiantNICs

Technical Specifications

Compliance	IEEE 802.3, 802.3u, 802.3ab, 802.3x, Dynamic 802.3ad, 802.3p, 802.1Q PCI Express ver 1.0a		
General Specifications	Communications Processor	Broadcom 5708	
	On-board memory	92KB	
	Data rate	10/100/1000 Mbps, Half- and full-duplex	
	Data path	Four lane (x4) PCI Express compatible with x1, x4, x8, and x16 PCI Express slots	
	Connector	RJ45	
	Distance and cabling	100m (328ft) CAT 5 or better	
	Dimensions (LxW)	6.6 x 2.5 in (16.8x 6.4 cm) without brackets	
Power and Environmental Specifications	Operating	Temperature	32° to 131° F (0° to 55° C)
		Humidity	10% to 90% non-condensing
	Non-operating	Temperature	-40° to 185° F (-40° to 85° C)
		Humidity	5% to 95% non-condensing
	Power requirement	Operating Voltage: 3.3V +/- 5% Maximum: 2A @ 3.3V(DC)	
	Emissions Classifications	FCC Class B	
Agency Approvals	USA	FCC (CFR 47 part 15) and UL 60950	
	Canada	ICES-003 and CSA60950	
	Japan	VCCI	
	Korea	MIC (RRL), EMC Registration	
	Australia	ACA, AS/NZS3548/EN55022:1998, EN55024:1998	
	EU	EN55022:1998 (CISPR 22), EN55024:1998, and IEC60950:1999 (EN60950:2000)	
Operating system support	Standard Gigabit Ethernet	<ul style="list-style-type: none"> ● Microsoft Windows Server 2008, Standard and Enterprise ● Microsoft Windows HPC Server 2008 ● Microsoft Windows Small Business Server 2011 ● Microsoft Windows Hyper-V ● Microsoft certified miniport and teaming drivers ● Red Hat Enterprise Linux ● SUSE Linux Enterprise Server ● NDIS 2 for DOS unattended operating system install (43K or less in size) ● SCO OpenServer 6.0.0 ● SCO UnixWare 7.1.3 ● SCO UnixWare 7.1.4 ● Solaris 10 ● VMware ESX4.1/ ESXi 4.1, ESX M/N 5.0 ● Citrix XenServer XS 6.0 	
	TCP/IP Offload	<ul style="list-style-type: none"> ● Windows Server 2008 Enterprise 	
		<p>NOTE: For more Linux OS support & certification information, please visit our the ProLiant & BladeSystem Server Linux matrix: http://h18004.www1.hp.com/products/servers/linux/hplinuxcert.html</p>	

 Technical Specifications

(for Windows only)

- Windows Server 2008 x64 Enterprise
- Microsoft® Windows Server 2003, Standard and Enterprise
- Microsoft Windows Server 2003 x64 edition, Standard and Enterprise
- Microsoft certified miniport and teaming drivers (Supported only with the availability of "TOE Chimney" in Microsoft's Scalable Networking Pack.)

Accelerated iSCSI

- Windows Server 2008 Enterprise
 - Windows Server 2008 x64 Enterprise
 - Microsoft Windows Server 2003, Standard, and Enterprise
 - Microsoft Windows Server 2003 x64 edition,, Standard and Enterprise
 - Microsoft certified miniport and teaming drivers
-

Environment-friendly Products and Approach**End-of-life Management and Recycling**

Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to <http://www.hp.com/go/green>. To recycle your product, please go to: <http://www.hp.com/go/green> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/green>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

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