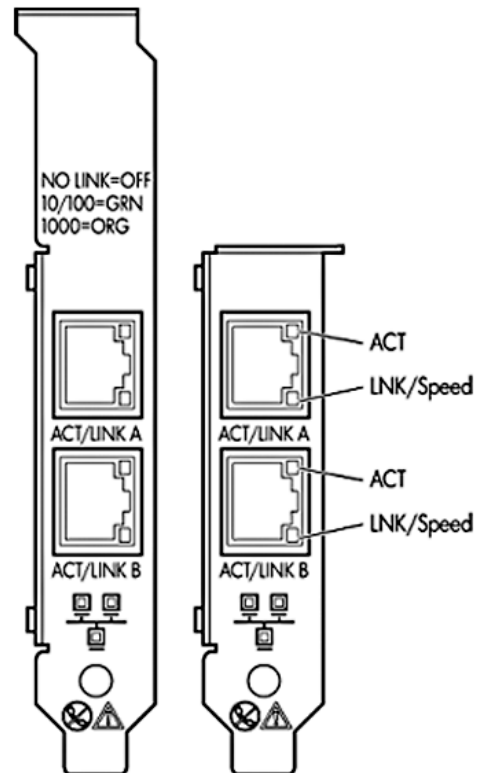
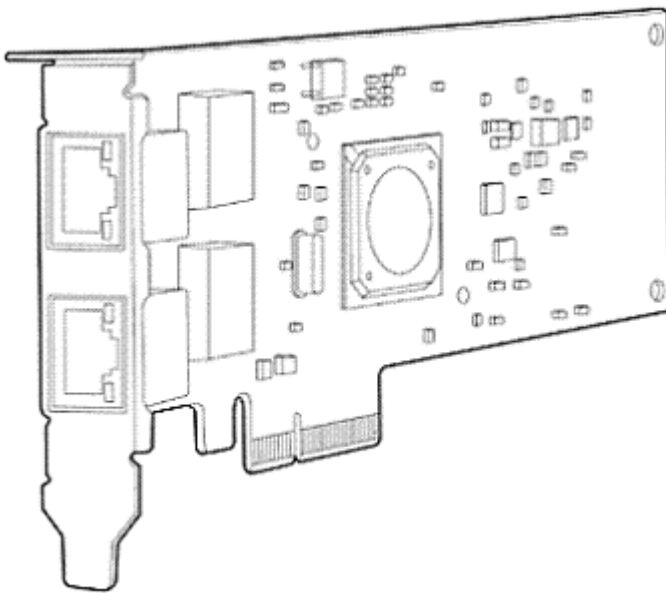


### Overview

HP NC382T is a high performance PCI Express (PCIe) Dual Port, copper, multifunction Gigabit Server Adapter for the discerning ProLiant customer used to optimum performance. It is the latest addition to the best selling line of HP dual port NICs, which enable customers to save valuable I/O slots. It makes use of the latest Broadcom 5709 silicon and is suitable for both standard and low profile slots. It will be a supported option on most ProLiant DL and ML servers at a highly competitive price.

Being a multifunction NIC it supports TOE (TCP/IP Offload Engine) for Windows and Internet Small Computer System Interface (iSCSI). Besides this it is also laden with features that ProLiant customers have come to expect like support for failover and load balancing, Wake on LAN, Pre-Boot Execution Environment (PXE), large send offload capability, multiple VLAN tagging, and auto-negotiated 10/100/1000Mbps Ethernet speeds.



### Models

HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter

458492-B21

### Kit Contents

- HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter in an anti-static bag
- Full height and half height brackets, the full height is pre-installed on the card
- Quick install card
- Product warranty statement
- Drivers, user guide, and utilities via: <http://www.hp.com/cgi-bin/hpsupport/index.pl>

### Compatibility

#### Compatibility

##### Servers

##### ProLiant DL (rack-optimized):

- HP ProLiant DL120 G6
- HP ProLiant DL120 G7
- HP ProLiant DL160 G5
- HP ProLiant DL160 G5p
- HP ProLiant DL160 G6
- HP ProLiant DL165 G5
- HP ProLiant DL165 G5p
- HP ProLiant DL165 G6
- HP ProLiant DL165 G7
- HP ProLiant DL170e G6
- HP ProLiant DL170h G6
- HP ProLiant DL180 G6
- HP ProLiant DL185 G5
- HP ProLiant DL320 G6
- HP ProLiant DL360 G6
- HP ProLiant DL360 G7
- HP ProLiant DL365 G5
- HP ProLiant DL370 G6
- HP ProLiant DL380 G6
- HP ProLiant DL380 G7
- HP ProLiant DL385 G5
- HP ProLiant DL385 G5p
- HP ProLiant DL385 G6
- HP ProLiant DL385 G7
- HP ProLiant DL580 G5
- HP ProLiant DL580 G7
- HP ProLiant DL585 G5
- HP ProLiant DL585 G6
- HP ProLiant DL585 G7
- HP ProLiant DL785 G5
- HP ProLiant DL785 G6
- HP ProLiant DL980 G7

##### ProLiant ML (expansion-optimized):

- HP ProLiant ML110 G6
- HP ProLiant ML110 G7
- HP ProLiant ML150 G6
- HP ProLiant ML330 G6
- HP ProLiant ML350 G6
- HP ProLiant ML370 G6

##### ProLiant SL (scalable line):

- HP ProLiant SL160s G6
- HP ProLiant SL160z G6
- HP ProLiant SL165s G7

### Compatibility

- HP ProLiant SL165z G6
- HP ProLiant SL165z G7
- HP ProLiant SL170z G6
- HP ProLiant SL2x170z G6
- HP ProLiant SL390s G7

**NOTE:** This is a list of supported servers. Some may be discontinued.

### 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.

**NOTE:** Port enumeration on the NC382T is from the top down, i.e. the port near the top of the adapter is port #1 and the port closest to the gold teeth is port #2

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##### TCP/IP Protocol Offloading

TCP/IP Offload Engine (TOE) for Windows 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 NC382T supports TOE when Windows TOE Chimney is installed. With TOE, network communications are improved, and server efficiency is increased.

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##### Accelerated iSCSI

Accelerated iSCSI allows the NC382T to multi-function both as a network adapter and as a storage host bus adapter, thereby providing access to storage boxes and to servers over a single connection. Additionally, the NC382T 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. Accelerated iSCSI is not supported on RHEL 6.1 & 6.2 and SLES 11 SP1.

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##### 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 install up to two NC382T adapters in a ProLiant server and aggregate their throughput up to a theoretical maximum of four Gigabits per second full-duplex transmission. The NC382T can be configured to work with other NC-series Ethernet server adapter teams supported on ProLiant servers.

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##### Checksum and Segmentation Offloads and Interrupt Coalescing

The NC382T 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.

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#### Scalability and Reliability

##### Tri-Speed Support

Because the NC382T supports 10Mbps Ethernet and 100Mbps Fast Ethernet in addition to Gigabit Ethernet, users are guaranteed end-to-end protocol support across their enterprise. Like all HP server adapters, the NC382T adheres to industry open standards, insuring that it will perform seamlessly with any network devices that also support IEEE standards.

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##### Network Fault Tolerance (NFT)

Network Fault Tolerance, sometimes called "failover" or "NIC redundancy", allows for the installation of multiple NC382T 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.

### Standard Features

#### Network Management

**Auto-negotiation**

The NC382T automatically senses the speed of the device to which it is attached. It also automatically configures for half or full duplex, depending on the duplex mode of the switch, hub, or router at the other end of the cable.

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**Management Support**

Like all HP server adapters, the NC382T 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.

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**Server Integration**

HP Systems Insight Manager can recognize the NC382T 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 NC382T for critical event logging on HP servers.

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**Configuration Utilities**

Each NC382T 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 2008 and 2003 operating systems. Support for scripted installations of teams in a Microsoft Windows environment allow for unattended OS installations.
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**LED Indicators**

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

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#### 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](http://www.hp.com/services/servers) and [www.hp.com/services/storage](http://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>

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##### 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

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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.

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#### **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.

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#### **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.

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#### **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](http://www.hp.com/services/proliant) or [www.hp.com/services/bladepystem](http://www.hp.com/services/bladepystem) or <http://www.hp.com/services/storage>

### Related Options

|                                |                                                          |            |
|--------------------------------|----------------------------------------------------------|------------|
| <b>Gigabit Server Adapters</b> | 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 NC373T PCI-E Multifunction Gigabit Server Adapter     | 394791-B21 |
|                                | HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter | 394793-B21 |
|                                | HP NC375T PCI Express Quad Port Gigabit Server Adapter   | 538696-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.

**NOTE:** Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately.

|                                                                                                  |            |
|--------------------------------------------------------------------------------------------------|------------|
| 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 |
| <b>NOTE:</b> 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 |

### FlexibleLOM 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 FlexFabric 10Gb 2-port 554FLR-SFP+ Adapter                                                                                                                              | 629142-B21 |
| <b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information: <a href="http://www.hp.com/go/ProLiantNICs">www.hp.com/go/ProLiantNICs</a> |            |

### Technical Specifications

|                                               |                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Compliance</b>                             | IEEE802.3, 802.3u, 802.3ab, 802.3x, 802.3ad, 802.1p, 802.1q<br>x4 PCI Express v1.1 compliant<br>x4 PCI Express 2.0 v1.0 ready |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>General Specifications</b>                 | <b>Communications Processors</b>                                                                                              | Broadcom 5709                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                               | <b>On-board memory</b>                                                                                                        | 192KB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                               | <b>Data rate</b>                                                                                                              | 10/100/1000 Mbps, Half- and full-duplex                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                               | <b>Data path</b>                                                                                                              | Four lane (x4) PCI Express compatible with x1, x4, x8, and x16 PCI Express slots                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                               | <b>Interrupt levels</b>                                                                                                       | Automatically configured                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                               | <b>Connectors</b>                                                                                                             | RJ-45 (two)<br><b>NOTE:</b> Port enumeration on NC382T is top down i.e. the port nearest to the top of the adapter is port #1 and the port near the gold teeth is port 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                               | <b>Distance</b>                                                                                                               | Up to 328 ft (100 m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                               | <b>Wiring</b>                                                                                                                 | Category 5 or better UTP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                               | <b>Dimensions (L x W)</b>                                                                                                     | 6.60 x 2.71 in (16.765 x 6.89 cm) without bracket                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Power and Environmental Specifications</b> | <b>Operating</b>                                                                                                              | Temperature 32° to 131° F (0° to 55° C)<br>Humidity 10% to 90% non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                               | <b>Non-operating</b>                                                                                                          | Temperature -40° to 185° F (-40° to 85° C)<br>Humidity 5% to 95% non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                               | <b>Power requirement</b>                                                                                                      | Operating Voltage: +3.3V +/-5%<br>Maximum: 1.1A @ 3.3V(DC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                               | <b>Emissions Classifications</b>                                                                                              | FCC Class B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                               | <b>Agency Approvals</b>                                                                                                       | USA FCC (CFR 47 part 15) and UL 60950<br>Canada ICES-003 and CSA60950<br>Japan VCCI<br>Korea MIC (RRL), EMC Registration<br>Australia ACA, AS/NZS3548/EN55022:1998, EN55024:1998<br>EU EN55022:1998 (CISPR 22), EN55024:1998, and IEC60950:1999 (EN60950:2000)                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Operating System Support</b>               | <b>Standard Gigabit Ethernet</b>                                                                                              | <ul style="list-style-type: none"> <li>● Microsoft Windows Server 2008 (32 and x64)</li> <li>● Microsoft Windows HPC Server 2008</li> <li>● Microsoft Windows Server 2003 and R2</li> <li>● Microsoft Windows Server 2003 Web Edition</li> <li>● Microsoft Windows Server 2003 Small Business Server</li> <li>● Microsoft certified miniport and teaming drivers</li> <li>● Microsoft Windows 2003 Standard (32 and x64)</li> <li>● Microsoft Windows 2003 Enterprise (32 and x64)</li> <li>● Red Hat Enterprise Linux</li> <li>● SUSE Linux Enterprise Server</li> <li>● Microsoft scalable Networking Pack (32 &amp; 64)</li> <li>● MS Virtual Server</li> <li>● Solaris 10</li> <li>● VMware ESX Server</li> </ul> |

### Technical Specifications

- NDIS 2 for DOS unattended operating system install (40K or less in size)
- NetWare 6.5
- Netware OES (6.5)

**NOTE:** For more Linux OS support & certification information, please visit the ProLiant & BladeSystem Server Linux matrix:

<http://h18004.www1.hp.com/products/servers/linux/hplinuxcert.html>

#### TCP/IP Offload

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

#### 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

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#### 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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