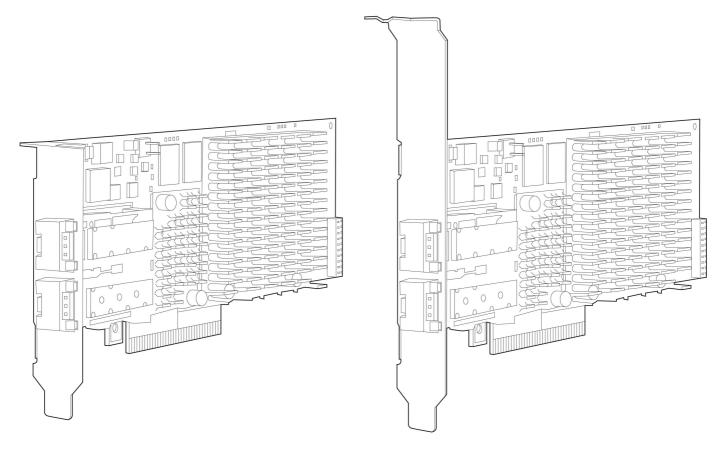
Overview

The NC552SFP is an eight lane (x8) PCI Express (PCIe) 10 Gigabit network solution offering optimal throughput. This PCI Express Gen 2 adapter ships with two SFP+ (Small Form-factor Pluggable) cages suitable for connecting to Direct Attach Cable (DAC) or an SR fiber module supporting fiber optic cabling.

The NC552SFP ships with advanced server features that suits ProLiant customers expectations, such as support for TCP checksum and segmentation, Large Send and Large Receive offload capability, VLAN tagging, 9K jumbo frames, IPv4 and IPv6, teaming for failover and load balancing, and TCP/IP Offload for Windows. The NC552SFP is easy to install and configure, and can be used in either standard or low profile slots.



NC522SFP - Low profile bracket

NC522SFP - Standard bracket

Models

HP NC522SFP Dual Port 10GbE Gigabit Server Adapter

468332-B21

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.



Overview

Kit Contents

- HP NC522SFP Dual Port 10GbE Server Adapter
- Full height bracket (installed on card)
- Low-profile bracket
- Quick install card
- User documentation and driver download information
- Product warranty statement



Compatibility

Compatibility

Servers

ProLiant DL (rack-optimized):

- HP ProLiant DL160 G5
- HP ProLiant DL160 G5p
- HP ProLiant DL160 G6
- HP ProLiant DL160se G6
- HP ProLiant DL165 G5
- HP ProLiant DL165 G5p
- HP ProLiant DL165 G6
- HP ProLiant DL165 G7
- HP ProLiant DL170h G6
- HP ProLiant DL180 G5
- HP ProLiant DL180 G6
- HP ProLiant DL185 G5
- HP ProLiant DL320 G6
- HP ProLiant DL360 G5
- HP ProLiant DL360 G6
- HP ProLiant DL360 G7
- HP ProLiant DL365 G5
- HP ProLiant DL370 G6
- HP ProLiant DL380 G5
- HP ProLiant DL380 G6
- HP ProLiant DL380 G7
- 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

ProLiant ML (expansion-optimized):

- HP ProLiant ML330 G6
- HP ProLiant ML350 G5
- HP ProLiant ML350 G6
- HP ProLiant ML370 G5
- HP ProLiant ML370 G6

ProLiant SL (scalable line):

- HP ProLiant SL160s G6
- HP ProLiant SL160z G6
- HP ProLiant SL165s G7
- HP ProLiant SL165z G6
- HP ProLiant SL165z G7



Compatibility

- 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.



Standard Features

Performance

Dual-port 10 Gigabit Ethernet Throughput

The 20,000 Mbps full duplex Ethernet transfer rate per port (40 Gbps aggregate full duplex) delivers outstanding network performance that improves response time and removes bottlenecks for the next generation data center. 10 Gigabit Ethernet bandwidth is ideal for high performance computing, database clusters, iSCSI storage, storage backups, grid systems, virtualization, server and I/O consolidation, fabric consolidation, and more.

PCI Express Interface

HP was an early champion of PCI Express bus technology and has played a key role in the development and industry adoption of the PCI Express specification. The NC522SFP is designed with an eight lane (x8) PCI Express bus based on the PCIe v2.0 standard. The adapter is backward compatible with four lane (x4) PCI Express automatically auto-sensing between x8 and x4 slots.

Jumbo Frames

Jumbo frames (also known as extended frames) permit a 9,000 byte transmission unit (MTU). The NC522SFP adapter supports 9KB jumbo frames as a way to achieve higher throughput and better CPU utilization. Jumbo frames are particularly useful for database transfers and tape backups.

TCP Stateless Offloading

For overall improved system response, the NC522SFP adapter supports standard TCP/IP offloading techniques including:

- TCP/IP checksum offload (TCO) moves the TCP and IP checksum offloading from the CPU to the network adapter.
- Large Send Offload (LSO) or TCP Segmentation Offload (TSO) allows the TCP segmentation to be handled by the adapter rather than the CPU.

Interrupt Coalescing

Interrupt coalescing (interrupt moderation) groups multiple packets, thereby reducing the number of interrupts sent to the host. This process optimizes host efficiency, leaving the CPU available for other duties.

802.1p QoS Tagging

IEEE quality of service (QoS) 802.1p tagging allows the adapter to mark or tag frames with a priority level across a QoS-aware network for improved traffic flow.

Network Management

Management Support

Like all HP ProLiant server adapters, the NC522SFP adapter ships with agents that can be managed from HP Systems Insight Manager or other management application that support SNMP.

Server Integration

The NC522SFP adapter is a validated, tested, and qualified solution that is optimized for HP ProLiant servers. This approach provides a more robust and reliable networking solution than offerings from other venders and provides users with a single point of contact for both their servers and their network adapters.

LED Indicators

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



Standard Features

Warranty Warranty

Maximum: The remaining warranty of the HP product in which it is installed (to a maximum three-year, limited warranty).

Minimum: One year limited 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



HP NC522SFP Dual Port 10GbE Server Adapter

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/hps/storage



Related Options

netated options		
Direct Attach Cable	HP BladeSystem c-Class Small Form-Factor Pluggable .5m 10GbE Copper Cable HP BladeSystem c-Class Small Form-Factor Pluggable 1m 10GbE Copper Cable HP BladeSystem c-Class Small Form-Factor Pluggable 3m 10GbE Copper Cable HP BladeSystem c-Class Small Form-Factor Pluggable 5m 10GbE Copper Cable HP BladeSystem c-Class Small Form-Factor Pluggable 7m 10GbE Copper Cable NOTE: Direct Attach Cable (DAC) must be purchased separately for copper environments.	487649-B21 487652-B21 487655-B21 537963-B21 487658-B21
Fiber Optic Modules	HP BladeSystem c-Class 10Gb Short Range Small Form-Factor Pluggable Option HP BladeSystem c-Class 10Gb Long Range Small Form-Factor Pluggable Option HP BladeSystem c-Class 10Gb Long Range Mode Small Form-Factor Pluggable Option NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments.	455883-B21 455886-B21 455889-B21
Fiber Optic Cables	HP 2M LC-SC Cable Kit (2Gb to 1Gb) 5M LC-SC Cable Kit (2Gb to 1Gb) HP 15M LC-SC Cable Kit (2Gb to 1Gb) HP 2m LC-LC FC Cable Kit 5m LC-LC FC Cable Kit HP 15m LC-LC FC Cable Kit HP 30m LC-LC FC Cable Kit HP 50m LC-LC FC Cable Kit HP 50m LC-LC FC Cable Kit HP LC to LC Multi-mode 0M3 2-Fiber 0.5m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode 0M3 2-Fiber 1.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode 0M3 2-Fiber 5.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode 0M3 2-Fiber 15.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode 0M3 2-Fiber 30.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode 0M3 2-Fiber 50.0m 1-Pack Fiber Optic Cable HP LC to LC Multi-mode 0M3 2-Fiber 50.0m 1-Pack Fiber Optic Cable NOTE: Fiber transceivers and cables must be purchased separately for fiber-optic environments. NOTE: For additional information on 10Gb cable specifications go to: http://www.hewlett-packard.com/rnd/pdfs/10gig_cabling_technical_brief.pdf	221691-B21 221691-B23 221692-B21 221692-B22 221692-B23 221692-B26 221692-B27 AJ833A AJ834A AJ836A AJ837A AJ838A AJ838A
Additional Supported Cables (Plug into HPN5900)	HP X240 10G SFP+ to SFP+ 0.65m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable HP X240 10G SFP+ to SFP+ 7m Direct Attach Copper Cable HP X240 QSFP+ 4x10G SFP+ 1m DAC Cable HP X240 QSFP+ 4x10G SFP+ 3m DAC Cable HP X240 QSFP+ 4x10G SFP+ 5m DAC Cable	JD095C JD096C JD097C JG081C JC784C JG329A JG330A JG331A



HP NC522SFP Dual Port 10GbE Server Adapter

Additional Supported Cables HP X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable J9281B (Plug into HPN6600) HP X242 10G SFP+ to SFP+ 3m Direct Attach Copper Cable J9283B HP X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable J9286B Gigabit Server Adapters HP NC12T 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 NC373T PCI-E Multifunction Gigabit Server Adapter 394791-B21 HP NC373T PCI-E Multifunction Gigabit Server Adapter 394791-B21 HP NC373T PCI Express Quad Port Gigabit Server Adapter 394791-B21 458492-B21 HP NC375T PCI Express Dual Port Multifunction Gigabit Server Adapter 458492-B21 HP REthernet 1Gb 4-port 331T Adapter 647594-B21 HP Ethernet 1Gb 2-port 331T Adapter 652497-B21 10 Gigabit Server NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. NOTE: NC524SFP Dual Port 10GbE Module 489892-B21 NOTE: NC524SFP Dual Port 10GbE Server Adapter 593717-B21 489892-B21 NOTE: NC524SFP Dual Port 10GbE Server Adapter 581201-B21 HP NC550SFP Dual Port 530SFP Adapter 5	Related Options		
(Plug into HPN6600) HP X242 10G SFP+ to SFP+ 7m Direct Attach Copper Cable J9286B Gigabit Server Adapters HP XC112T 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 NC364T PCI-E Quad Port Gigabit Server Adapter 593722-B21 HP NC373T PCI-E Multifunction Gigabit Server Adapter 394791-B21 HP NC373T PCI-E Multifunction Gigabit Server Adapter 394791-B21 HP NC373T PCI-E Multifunction 1000SX Gigabit Server Adapter 394791-B21 HP NC375T PCI Express Quad Port Gigabit Server Adapter 538696-B21 HP NC375T PCI Express Quad Port Gigabit Server Adapter 458492-B21 HP NC375T PCI Express Quad Port Multifunction Gigabit Server Adapter 647594-B21 HP Ethernet 1Gb 4-port 331T Adapter 647594-B21 HP Ethernet 1Gb 2-port 332T Adapter 647594-B21 HP Ethernet 1Gb 2-port 361T Adapter 652497-B21 10 Gigabit Server Adapter NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. HP NC523SFP 10Gb 2-port Server Adapter 593717-B21 HP NC524SFP Dual Port 10GbE Module 489892-B21 NOTE: NC524SFP Dual Port 10GbE Module 489892-B21 NOTE: NC524SFP Dual Port 10GbE Server Adapter 581201-B21 HP NC550SFP Dual Port 10GbE Server Adapter 581201-B21 HP NC550SFP Dual Port 10GbE Server Adapter 66529-B21 HP NC550SFP Dual Port 10GbE Server Adapter 66529-B21 HP Ethernet 10Gb 2-port 530SFP Adapter 66529-B21 HP Ethernet 10Gb 2-port 560SFP+ Adapter 66529-B2	Additional Supported	HP X242 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281B
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HP NC364T PCI-E Quad Port Gigabit Server Adapter 593722-821 HP NC365T 4-port Ethernet Server Adapter 593722-821 HP NC373T PCI-E Multifunction Gigabit Server Adapter 394791-821 HP NC373T PCI-E Multifunction 1000SX Gigabit Svr Adapter 394793-821 HP NC375T PCI Express Quad Port Gigabit Server Adapter 538696-821 HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter 458492-821 HP Ethernet 1Gb 4-port 331T Adapter 647594-821 HP Ethernet 1Gb 2-port 331T Adapter 652497-821 HP Ethernet 1Gb 2-port 361T Adapter 652497-821 10 Gigabit Server Adapter 652497-821 NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. 593717-821 HP NC523SFP 10Gb 2-port Server Adapter 593717-821 HP NC524SFP Dual Port 10GbE Module 489892-821 NOTE: NC524SFP is available only on DL370 G6, ML370 G6, DL580 G7, DL585 G7, and DL980 G7. HP NC552SFP 10Gb 2-port Ethernet Server Adapter 581201-821 HP NC552SFP 10Gb 2-port Ethernet Server Adapter 652503-821 HP Ethernet 10Gb 2-port 530SFP Adapter 652503-821 HP Ethernet 10Gb 2-port 530T Adapter 655596-821 HP Ethernet 10Gb 2-port 560SFP+ Adapter 665249-821 HP Ethernet 10Gb 2-port 560SFP+ Adapter 665249-821 HP Ethernet 10Gb 2-port 560SFP+ Adapter 665249-821 HP Ethernet 10Gb 2-port 561T Adapter 716591-821	Gigabit Server Adapters	HP NC112T PCI Express Gigabit Server Adapter	503746-B21
HP NC365T 4-port Ethernet Server Adapter HP NC373T PCI-E Multifunction Gigabit Server Adapter HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter HP NC373F PCI Express Quad Port Gigabit Server Adapter HP NC375T PCI Express Quad Port Gigabit Server Adapter HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 332T Adapter 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 NC523SFP 10Gb 2-port Server Adapter HP NC523SFP 10Gb 2-port Server Adapter HP NC524SFP Dual Port 10GbE Module NOTE: NC524SFP is available only on DL370 G6, ML370 G6, DL580 G7, DL585 G7, and DL980 G7. HP NC552SFP 10Gb 2-port Ethernet Server Adapter HP NC552SFP 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530FP Adapter G52503-B21 HP Ethernet 10Gb 2-port 530FP Adapter G65249-B21 HP Ethernet 10Gb 2-port 560SFP+ Adapter G65249-B21 HP Ethernet 10Gb 2-port 561T Adapter G65249-B21 HP Ethernet 10Gb 2-port 561T Adapter G65249-B21 HP Ethernet 10Gb 2-port 561T Adapter HP Ethernet 10Gb 2-port 561T Adapter		HP NC360T PCI-E Dual Port Gigabit Server Adapter	412648-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 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 adapters NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. HP NC523SFP 10Gb 2-port Server Adapter 489892-B21 NOTE: NC524SFP bia available only on DL370 G6, ML370 G6, DL580 G7, DL585 G7, and DL980 G7. HP NC550SFP Dual Port 10GbE Server Adapter HP NC552SFP 10Gb 2-port Ethernet Server Adapter HP NC552SFP 10Gb 2-port Ethernet Server Adapter HP Ethernet 10Gb 2-port 530SFP Adapter 652503-B21 HP Ethernet 10Gb 2-port 530SFP Adapter 652503-B21 HP Ethernet 10Gb 2-port 560SFP+ Adapter 665249-B21 HP Ethernet 10Gb 2-port 560SFP+ Adapter 716591-B21		HP NC364T PCI-E Quad Port Gigabit Server Adapter	435508-B21
HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter HP NC375T PCI Express Quad Port Gigabit Server Adapter HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 361T Adapter MOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. HP NC523SFP 10Gb 2-port Server Adapter HP NC524SFP Dual Port 10GbE Module NOTE: NC524SFP Dual Port 10GbE Module NOTE: NC524SFP Dual Port 10GbE Server Adapter HP NC550SFP Dual Port 10GbE Server Adapter HP NC550SFP Dual Port 10GbE Server Adapter HP NC552SFP 10Gb 2-port Ethernet Server Adapter HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter 716591-B21		HP NC365T 4-port Ethernet Server Adapter	593722-B21
HP NC375T PCI Express Quad Port Gigabit Server Adapter HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 361T Adapter 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 NC523SFP 10Gb 2-port Server Adapter HP NC524SFP Dual Port 10GbE Module NOTE: NC524SFP is available only on DL370 G6, ML370 G6, DL580 G7, DL585 G7, and DL980 G7. HP NC550SFP Dual Port 10GbE Server Adapter HP NC552SFP 10Gb 2-port Ethernet Server Adapter HP NC552SFP 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter G52503-B21 HP Ethernet 10Gb 2-port 560SFP+ Adapter G56596-B21 HP Ethernet 10Gb 2-port 561T Adapter G65249-B21 HP Ethernet 10Gb 2-port 561T Adapter		HP NC373T PCI-E Multifunction Gigabit Server Adapter	394791-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 Adapter 652497-B21 10 Gigabit Server NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. 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 550T Adapter 656596-B21 HP Ethernet 10Gb 2-port 560SFP+ Adapter 656249-B21 HP Ethernet 10Gb 2-port 561T Adapter 716591-B21		HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter	394793-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 Adapter 652497-B21 10 Gigabit Server Adapter 7593717-B21 HP NC523SFP 10Gb 2-port Server Adapter 7593717-B21 HP NC524SFP Dual Port 10GbE Module 789892-B21 NOTE: NC524SFP is available only on DL370 G6, ML370 G6, DL580 G7, DL585 G7, and DL980 G7. HP NC552SFP 10Gb 2-port Ethernet Server Adapter 7581201-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 NC375T PCI Express Quad Port Gigabit Server Adapter	538696-B21
HP Ethernet 1Gb 2-port 332T Adapter 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 NC523SFP 10Gb 2-port Server Adapter HP NC524SFP Dual Port 10GbE Module NOTE: NC524SFP is available only on DL370 G6, ML370 G6, DL580 G7, DL585 G7, and DL980 G7. HP NC550SFP Dual Port 10GbE Server Adapter HP NC550SFP Dual Port 10GbE Server Adapter HP NC552SFP 10Gb 2-port Ethernet Server Adapter HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter HP Ethernet 10Gb 2-port 561T Adapter HP Ethernet 10Gb 2-port 561T Adapter		HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter	458492-B21
HP Ethernet 1Gb 2-port 361T Adapter NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. 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 1Gb 4-port 331T Adapter	647594-B21
NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapters Adapters NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. HP NC523SFP 10Gb 2-port Server Adapter HP NC524SFP Dual Port 10GbE Module NOTE: NC524SFP is available only on DL370 G6, ML370 G6, DL580 G7, DL585 G7, and DL980 G7. HP NC550SFP Dual Port 10GbE Server Adapter HP NC552SFP 10Gb 2-port Ethernet Server Adapter HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter T16591-B21 HP Ethernet 10Gb 2-port 561T Adapter T16591-B21		HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
Adapters Adapter. HP NC523SFP 10Gb 2-port Server Adapter HP NC524SFP Dual Port 10GbE Module NOTE: NC524SFP is available only on DL370 G6, ML370 G6, DL580 G7, DL585 G7, and DL980 G7. HP NC550SFP Dual Port 10GbE Server Adapter HP NC550SFP 10Gb 2-port Ethernet Server Adapter HP NC552SFP 10Gb 2-port Ethernet Server Adapter HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter 716591-821		HP Ethernet 1Gb 2-port 361T Adapter	652497-B21
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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 NC524SFP Dual Port 10GbE Module	489892-B21
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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 NC550SFP Dual Port 10GbE Server Adapter	581201-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 NC552SFP 10Gb 2-port Ethernet Server Adapter	614203-B21
HP Ethernet 10Gb 2-port 560SFP+ Adapter665249-B21HP Ethernet 10Gb 2-port 561T Adapter716591-B21		HP Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
HP Ethernet 10Gb 2-port 561T Adapter 716591-B21		HP Ethernet 10Gb 2-port 530T Adapter	656596-B21
·		HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
HP Ethernet 10Gb 2-port 570SFP+ Adapter 718904-B21		HP Ethernet 10Gb 2-port 561T Adapter	716591-B21
		HP Ethernet 10Gb 2-port 570SFP+ Adapter	718904-B21



Related Options

FlexibleLOM Adapters

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

Ethernet Adapters

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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

NOTE: Please see the QuickSpecs for Technical Specifications and additional

information: www.hp.com/go/ProLiantNICs

HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter

HP FlexFabric 10Gb 2-port 554FLR-SFP+ Adapter



700751-B21

629142-B21

Technical Specifications

Compliance IEEE 802.3ae,802.3ad, 802.1p, 802.1Q 802.3x 802.3z

Safety UL, Canada UL, EN 60950

Emissions FCC Class A, VCCI Class A, BSMI Class A, CISPR 22 Class A, ACA Class A, EN55022

Class A, EN55024-1, ICES-003 Class A, MIC Class A

Other PCIe v2.0

RoHS compliance 6 of 6

IPv4, IPv6 CE ACPI 1.1a

Microsoft WHQL (Windows Hardware Quality Labs)

Server Design Guide version 3.0 (SDG 3.0)

General Specifications Controller NETXEN NX3031

Onboard memory 256MB

Data rate 10,000 Mbps per port, (40 Gbps aggregate full duplex, dual ports) **Data Path** 8 Lane (x8) PCI Express, compatible with x4 and x8 bus widths

Dimensions (LxW) 6.6 x 2.7 in (16.7 x 6.8 cm) without bracket

Power and Environmental Operating

Specifications

Operating Temperature 32° to 131° F (0° to 55° C)

Humidity 10% to 90% non-condensing

Non-operating Temperature -85° to 185° F (-65° to 85° C)

Humidity 5% to 95%

Power 2.03A @ 12V

Operating System Support Microsoft Windows Server 2008, Server 2008R2, and HPC Server 2008, 32 and 64-bit

Microsoft Windows Small Business Server 2011

Microsoft Windows Server 2008, Server 2008R2, and HPC Server 2008, 32 and 64-bit

Microsoft Windows Server Hyper-V

Red Hat Enterprise Linux SUSE Linux Enterprise Server

SLES 9, 10, 11 Solaris 10

VMware 3.5, 4.0, 4.1 and 5.0 Solaris 10 5/09, 10/09

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



Technical Specifications

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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