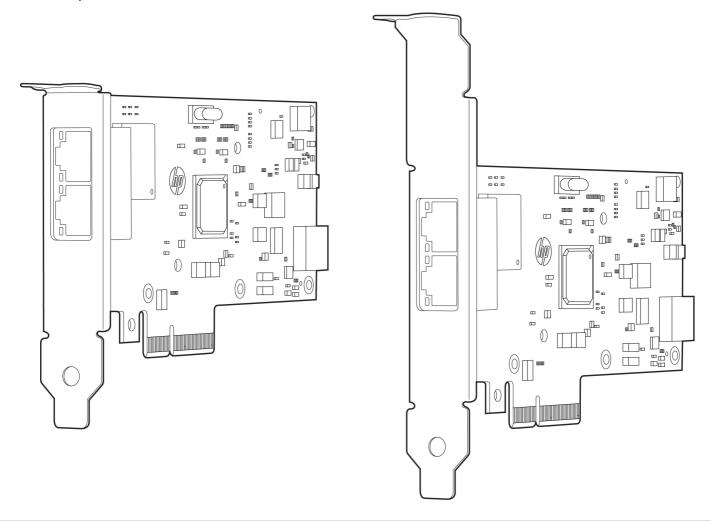
Overview

The HP 361T offers two high-performing 1GbE PCIe Gen 2.1 connections in a low cost, low power, halogen-free design. Based on the new fully integrated (bridgeless) Intel® Ethernet I350 Controller, it introduces new levels of performance and power management technologies for HP ProLiant Gen8 DL/ML/SL servers and select G7 servers.

It can be used with a full height or low profile bracket, and can operate at three different data rates (10/100/1000 Mbps). The HP 361T is positioned as the follow-on to the HP NC360T.



Models

HP Ethernet 1Gb 2-port 361T Adapter

652497-B21

Kit Contents

- HP Ethernet 1Gb 2-port 361T Adapter PCA with a standard height bracket attached to it (the low profile bracket is included in the clamshell that the PCA ships in)
- Product Warranty statement and the Quick Install Card (QIC).



Compatibility

Server Support

ProLiant DL (rack-optimized):

- HP ProLiant DL160 Gen8
- HP ProLiant DL165 G7
- HP ProLiant DL320e Gen8
- HP ProLiant DL320e Gen8 v2
- HP ProLiant DL360e Gen8
- HP ProLiant DL360p Gen8
- HP ProLiant DL380e Gen8
- HP ProLiant DL380p Gen8
- HP ProLiant DL385p Gen8
- HP ProLiant DL560 Gen8
- HP ProLiant DL580 G7
- HP ProLiant DL585 G7
- HP ProLiant DL980 G7

ProLiant ML (expansion-optimized):

- HP ProLiant ML310e Gen8
- HP ProLiant ML310e Gen8 v2
- HP ProLiant ML350e Gen8
- HP ProLiant ML350e Gen8 v2
- HP ProLiant ML350p Gen8

ProLiant SL (scalable line):

- HP ProLiant SL210t Gen8
- HP ProLiant SL230s Gen8
- HP ProLiant SL250s Gen8
- HP ProLiant SL270s Gen8

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



Standard Features

Features

Product Highlights

- Two Gigabit Ethernet Ports
- Supported on HP ProLiant Gen8 & Select G7 Rack & Tower servers
- Intel® Ethernet I350 controller
- Designed with server needs in mind:
 - O IEEE 802.1p, 802.1Q, 802.3, 802.3ad, and 802.3x
 - O EEE, EFI/uEFI support
 - ProLiant Teaming including Network Fault Tolerance, Transmit Load Balancing, and Switch-Assisted Load Balancing
 - 9.5K Jumbo frames
 - DMA Coalescing
 - IEEE 1588 (Precision Time Stamping) & 802.1AS (Hardware enabled Time Synchronization)
 - TCP/IP checksum offload (TCO) and large send offload (LSO)
 - O PXE
 - O Intel® Integrated I/O and Data Direct I/O for increased performance and reduced latency
 - Virtualization with VMDq
 - IPv6 packet transmit and receive (excluding all offload capabilities); IPv6 aware SNMPv1 agent for Windows

Performance

Gigabit Throughput Combined with Legacy Ethernet Support

10/100/1000 Mbps Ethernet transfer rate delivers outstanding network performance that improves response time and removes bottlenecks. Because the HP 361T supports both 10Mbps Ethernet and 100Mbps Fast Ethernet in addition to Gigabit Ethernet, users are guaranteed end-to-end protocol support across their enterprise.

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 HP 361T features a high performance Intel® Ethernet Controller I350 and offers a four lane (x4) PCI Express bus based on the PCIe v2.1 standard, yielding faster transmissions with lower CPU utilization than earlier solutions.

Load Balancing

Transmit Load Balancing (TLB) and Switch-assisted Load Balancing (SLB) are two advanced features that customers can use to build a bigger pipe for improved networking bandwidth. These port bonding techniques enable users to install up to four dual-port HP 361T adapters (total of 8 ports) in a HP ProLiant server and aggregate their throughput up to a theoretical maximum of 16 Gigabits per second full-duplex transmissions.

Jumbo Frames

Jumbo Frames (also known as Extended Frames) offer a 9.5K byte Maximum Transmission Unit (MTU), which is approximately six times the size of traditional Ethernet frames. Like all HP ProLiant server adapters, the HP 361Tsupports jumbo frames as a way to achieve higher throughput and better CPU utilization when deployed in a network infrastructure that supports them. Jumbo frames are particularly useful for database transfers and tape backups.



Standard Features

Optimized for **Virtualization**

I/O Virtualization support for Intel's Virtual Machine Device Queues (VMDq), VMware NetQueue and Microsoft VMQ help meet the performance demands of consolidated virtual workloads.

Compliant with Single-Root I/O Virtualization (SR-IOV), accommodating multiple Virtual Machines (VMs) to share single PCIe resources. The device is capable of SR-IOV, and requires Firmware, Software and OS support

IEEE 1588 & 802.1AS

Hardware assist for IEEE 1588 and IEEE 802.1AS time synchronization implementations for time sensitive applications.

Power Management Technologies

The 361T supports latest power management technologies such as Energy Efficient Ethernet & DMA coalescing:

- Energy Efficient Ethernet: Compliant with IEEE 802.3az, featuring advanced power savings features throttles power usage with network load activity.
- DMA Coalescing: Supports DMA Coalescing, the incoming data packets and interrupts associated with these DMA calls are intelligently batched to keep the system devices in lower power states.

Data Direct I/O

Intel® Integrated I/O with New on HP ProLiant Gen8 servers, Intel® Integrated I/O features reduces memory access from I/O on local socket which speeds up CPU data transfer and accelerates inbound and outbound traffic flows. Together, Integrated I/O and Data Direct I/O technologies reduce system power, increases I/O performance and reduced I/O latency.

PXE Boot

Support for pre-boot execution environment (PXE) enables automatic deployment of computing resources remotely from anywhere. It allows a new or existing server to boot over the network and download software, including the operating system, from a management/ deployment server at another location on the network. Additionally, PXE enables decentralized software distribution and remote troubleshooting and repairs.

Linux boot via PXE or BOOTP, Windows Deployment Services, or UEFI which allows networked computer to boot using a program code image supplied by a remote server. It complies with the Pre-boot eXecution Environment (PXE) Version 2.1 specification.

HP Sea of Sensors 3D

Support for HP Sea of Sensors 3D Technology which is a collection of 32 sensors that automatically track thermal activity - heat - across the server. When temperatures get too high, sensors can kick on fans and make other adjustments to reduce energy usage. What makes it better is the upgrade from all six fans kicking on at one time to a new system where only one kicks on - the one in proximity of the area that started heating up - thus reducing the amount of energy used for cooling.



Standard Features

Scalability and Reliability

Dual Ports

Two Gigabit ports allow users to save slots in situations where their servers are slot-constrained. HP has long been an advocate of dual port adapters for servers; the HP 361T is the latest best-of-breed dual port devices for HP ProLiant servers.

NOTE: Port enumeration on the HP 361T 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

(NFT)

Network Fault Tolerance Network Fault Tolerance, sometimes called "failover" or "NIC Redundancy," allows for the installation of multiple server adapters so that the active device can be backed up by a redundant adapter to improve availability. HP's 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.

Distance capabilities

The HP 361T supports cable runs up to 100 meters (328 feet).

Network Management

Auto-negotiation

The HP 361T automatically senses and configures itself to 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.

Wake-on-LAN

The HP 361T provides Wake-on-LAN (WOL) support through the PCI Express bus. A system that supports Wake on LAN can remain available to a systems administrator during its normal downtime. Once the machine is awakened, the systems administrator can remotely control, audit, debug, or manage the machine.

Management Support

Like all HP ProLiant server adapters, the HP 361T ships with drivers and agents that can be managed from all versions of Systems Insight Manager. Additionally, it supports any management application that supports SNMP.

Server Integration

The SmartStart configuration utility includes setup support for the HP 361T so that the adapter can be configured as part of the SmartStart configuration process. Insight Manager can recognize the 361T individually or in a port-bonded team, and it can collect and report SNMP statistics on the adapter events. Integrated Management Log (IML) support is provided by the 361T for critical event logging on HP ProLiant servers.

Configuration Utilities

Each HP 361T ships with a suite of operating system-tailored configuration utilities that allow the user to enable initial diagnostics and configure adapter teaming. This includes a patented teaming GUI for Microsoft Windows operating systems. Additionally, support for scripted installations of teams in a Microsoft Windows environment allow for unattended OS installations

LED Indicators

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



Standard Features

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.

See Internet address http://www.hp.com for overall information on HP.



Service and Support

Service and Support

HP Technology Services

HP Technology Services offers you technical consultants and support expertise to solve your most complex infrastructure problems. We help keep your business running, boost availability, and avoid downtime.

Protect your business beyond warranty with HP Care Pack Services

When you buy HP Options, it's also a good time to think about what level of service you may need. HP Care Pack services provide total care and support expertise with committed response choices designed to meet your IT and business need.

HP Foundation Care services deliver scalable support-packages for HP industry-standard servers and software. You can choose the type and level of service that is most suitable for your business needs. New to this portfolio is HP Collaborative Support. If you are running business critical environments, HP offers Proactive Care or Critical Advantage. These services help you deliver high levels of application availability through proactive service management and advanced technical response.

Here is the support service recommendation from the Foundation Care and Proactive Care portfolio. For customized support service solution, HP can work with you to tailor a service solution for your unique support requirements using broader services portfolio of Foundation Care and Proactive Care.

Recommended HP Care Pack Services for optimal satisfaction with your HP product

Recommended Services

3-Year HP 24x7 4 hour Response, Proactive Care

Helps optimize your systems and delivers high levels of application availability through proactive service management and advanced technical response. A skilled Technical Manager will own your query or issue end to end until resolved, delivering a single point of contact for you

OR

3-Year HP 24x7 4 hour Response, HP Collaborative Support

Provides problem resolution support across the stack of HW, firmware, and HP and 3rd party SW. In case the issue is with 3rd party SW, HP does known issue resolution. If HP cannot solve the issue, it will contact the third-party vendor and create a problem incident on your behalf http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA3-8232ENW.pdf

HP Installation of ProLiant Add On Options Service

This easy-to-buy, easy-to-use HP Care Pack service helps ensure that your new HP hardware or software is installed smoothly, efficiently, and with minimal disruption of your IT and business operations



Service and Support

Related HP Care Pack Services to enhance your HP product experience

Related Services

3-Year HP 24x7 4 hour Response, Proactive Care

Helps optimize your systems and delivers high levels of application availability through proactive service management and advanced technical response. A skilled Technical Manager will own your query or issue end to end until resolved, delivering a single point of contact for you

OR

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

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

3-Year HP 6-hour Onsite Call-to-Repair, HP Collaborative Support

Offers customers a single point of contact for server problem diagnosis, hardware problem resolution to return the hardware in operating condition within 6 hours of the initial service request to the HP Global Solution Center, and basic software problem diagnosis, fault isolation, and resolution if available to HP. http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA3-8232ENW.pdf

HP Proactive Select Service

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.pdf

Insight Remote Support

Provides 24 X 7 remote monitoring, proactive notifications, and problem resolution. Learn more http://www.hp.com/go/insightremotesupport

HP Support Center

Personalized online support portal with access to information, tools and experts to support HP business products. Submit support cases online, chat with HP experts, access support resources or collaborate with peers. Learn more http://www.hp.com/go/hpsc

HP's Support Center Mobile App* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.

HP Insight Remote Support and HP Support Center are available at no additional cost with a HP warranty, HP Care Pack or HP contractual support agreement.

*HP' Support Center Mobile App is subject to local availability

Parts and materials

HP will provide HP-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements. Supplies and consumable parts will not be provided as part of this service; standard warranty terms and conditions apply. Parts and components that have exceeded their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual or the technical product data sheet will not be provided, repaired or replaced as part of this service.



Service and Support

Warranty / Service Coverage

For ProLiant servers and storage systems, this service covers HP-branded hardware options qualified for the server, purchased at the same time or afterward, internal to the enclosure, as well as external monitors up to 22" and tower UPS products; these items will be covered at the same service level and for the same coverage period as the server unless the maximum supported lifetime and/or the maximum usage limitation has been exceeded. Coverage of the UPS battery is not included; standard warranty terms and conditions apply.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by HP due to malfunction. It does not apply to any exchange of Disk or SSD/Flash Drives that have not failed. SSD/Flash Drives that are specified by HP as consumable parts and/or that have exceeded maximum supported lifetime and/or the maximum usage limit as set forth in the manufacturer's operating manual or the technical data sheet are not eligible for the defective media retention service feature option.

For more information

To learn more on services for HP ESSN Options, please contact your HP sales representative or HP Authorized Channel Partner. Or visit: http://www.hp.com/services/proliant or www.hp.com/services/bladesystem



Related Options

Gigabit Server Adapters HP NC13CT PCI Express Gigabit Server Adapter 41248-821 HP NC360T PCI-E Qual Port Gigabit Server Adapter 435508-821 HP NC361T PCI-E Qual Port Gigabit Server Adapter 435508-821 HP NC373F PCI-E Multifunction 1000SX Gigabit Server Adapter 394793-821 HP NC373T PCI-E Multifunction Gigabit Server Adapter 394791-821 HP NC373T PCI-E Multifunction Gigabit Server Adapter 39469-821 HP NC373T PCI Express Quad Port Multifunction Gigabit Server Adapter 458492-821 HP NC373T PCI Express Quad Port Multifunction Gigabit Server Adapter 458492-821 HP Ethernet 16b 4-port 331T Adapter 647594-821 HP Ethernet 16b 2-port 332T Adapter 647594-821 HP Ethernet 16b 2-port 332T Adapter 46832-821 HP NC522SFP Dual Port 106bE Gigabit Server Adapter 46832-821 HP NC522SFP Dual Port 106bE Gigabit Server Adapter 489892-821 NOTE: NC52SFP Dual Port 106bE Server Adapter 593717-821 HP NC52SFP Dual Port 106bE Server Adapter 65249-821 HP NC50SFP Dual Port 106bE Server Adapter 65249-821 HP Ethernet 106b 2-port Sa0FP Adapter 652593-821 HP Ethernet 106b 2-port 5405FP Adapter 65249-821 <			
HP NC365T PCI-E Quad Port Gigabit Server Adapter	Gigabit Server Adapters	HP NC112T PCI Express Gigabit Server Adapter	503746-B21
HP NC365T 4-port Ethernet Server Adapter			412648-B21
HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter 394793-B21 HP NC373T PCI-E Multifunction Gigabit Server Adapter 394791-B21 HP NC375T PCI Express Quad Port Gigabit Server Adapter 53869-B21 HP NC375T PCI Express Dual Port Multifunction Gigabit Server Adapter 458492-B21 HP Ethernet 16b 4-port 331T Adapter 647594-B21 HP Ethernet 16b 2-port 332T Adapter 615732-B21 10 Gigabit Server NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. 468332-B21 HP NC522SFP Dual Port 10GbE Gigabit Server Adapter 468332-B21 HP NC522SFP Dual Port 10GbE Module 489892-B21 HP NC522SFP Dual Port 10GbE Module 489892-B21 HP NC522SFP Dual Port 10GbE Module 489892-B21 HP NC525SFP Dual Port 10GbE Server Adapter 593717-B21 HP NC525SFP Dual Port 10GbE Server Adapter 581201-B21 HP NC552SFP Dual Port 10GbE Server Adapter 581201-B21 HP NC552SFP Dual Port 10GbE Server Adapter 652503-B21 HP Ethernet 10Gb 2-port 5307F Adapter 652503-B21 HP Ethernet 10Gb 2-port 5307F Adapter 652503-B21 HP Ethernet 10Gb 2-port 5507FP Adapter 665249-B21 HP Ethernet 10Gb 2-port 5507FP Adapter 716591-B21 HP Ethernet 10Gb 2-port 5507FP Adapter 718904-B21 HP Ethernet 10Gb 2-port 5507FP Adapter 665249-B21 HP Ethernet 10Gb 2-port 550FFP Adapter 665240-B21 HP Ethernet 10Gb 2-port 550FFP Adapter 665240-B21 HP Ethernet 10Gb 2-port 550FFR-FP Adapter 665240-B21 HP Ethernet 10Gb 2-port 550FFR-FP Adapter 665240-B21 HP Ethernet 10Gb 2-port 550FFR-FP Adapter 665243-B21 HP Ethernet 10Gb 2-port 550FFR-FP Adapter 665243-B21 HP Ethernet 10Gb 2-port 550FFR-FP Adapter 700759-B21 HP Ethernet 10Gb 2-port 530FFR-FP Adapter 700759-B21 HP Ethernet 10Gb 2-port 530FFR-FP Adapter 700759-B21 HP Ethernet 10Gb 2-port 530FFR-FP Adapter 700759-B21 HP Expabric 10Gb 2-port 534FR-FPP Adapter 700759-B21 HP FlexFabric 10Gb 2-port 534FR-FPP Adapter 700759-B21 HP FlexFabric 10Gb 2-port 554FR-FFP Adapter 700759-B21 HP FlexFabric 10G		HP NC364T PCI-E Quad Port Gigabit Server Adapter	435508-B21
HP NC373T PCI-E Multifunction Gigabit Server Adapter 394791-821 HP NC373T 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 332T Adapter 615732-821 10 Gigabit Server NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. HP NC522SFP Dual Port 10GbE Gigabit Server Adapter 468332-821 HP NC522SFP Dual Port 10GbE Gigabit Server Adapter 468332-821 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 NC525SFP 10Gb 2-port Ethernet Server Adapter 59320-821 HP NC525SFP Dual Port 10GbE Server Adapter 652503-821 HP Ethernet 10Gb 2-port 550FP Adapter 652503-821 HP Ethernet 10Gb 2-port 550FP Adapter 652503-821 HP Ethernet 10Gb 2-port 550FP Adapter 65596-821 HP Ethernet 10Gb 2-port 550FP Adapter 715591-821 HP Ethernet 10Gb 2-port 570FPP Adapter 718904-821 HP Ethernet 10Gb 2-port 570FPP Adapter 718904-821 HP Ethernet 10Gb 2-port 570FPP Adapter 665240-821 HP Ethernet 10Gb 2-port 570FPP Adapter 665240-821 HP Ethernet 10Gb 2-port 570FPP Adapter 665240-821 HP Ethernet 10Gb 2-port 550FLR Adapter 665240-821 HP Ethernet 10Gb 2-port 550FLR Adapter 665240-821 HP Ethernet 10Gb 2-port 550FLR SFPP Adapter 665240-821 HP Ethernet 10Gb 2-port 550FLR SFPP Adapter 665240-821 HP Ethernet 10Gb 2-port 550FLR SFPP Adapter 717491-821 HP Ethernet 10Gb 2-port 550FLR SFPP A		HP NC365T 4-port Ethernet Server Adapter	593722-B21
HP NC375T PCI Express Dual Port Gigabit Server Adapter		HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter	394793-B21
HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter HP Ethernet 1 Gb 4-port 331T Adapter HP Ethernet 1 Gb 2-port 332T Adapter HP Ethernet 1 Gb 2-port 332T Adapter **NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. HP NC5225FP Dual Port 10 GbE Gigabit Server Adapter HP NC5225FP Dual Port 10 GbE Gigabit Server Adapter HP NC5245FP Dual Port 10 GbE Module MOTE: NC5245FP Dual Port 10 GbE Module NOTE: NC5245FP Dual Port 10 GbE Server Adapter HP NC525FP Dual Port 10 GbE Server Adapter HP NC525FP Dual Port 10 GbE Server Adapter HP NC525FP Dual Port 10 GbE Server Adapter HP NC5525FP Dual Port 10 GbE Server Adapter HP NC5525FP Dual Port 10 GbE Server Adapter HP Ethernet 10 Gb 2-port 500FP Adapter HP Ethe		HP NC373T PCI-E Multifunction Gigabit Server Adapter	394791-B21
HP Ethernet 1Gb 4-port 331T Adapter		HP NC375T PCI Express Quad Port Gigabit Server Adapter	538696-B21
### RETHERMENT LIGHT 2-port 332T Adapter **NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. ### NC522SFP Dual Port 10GbE Gigabit Server Adapter		HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter	458492-B21
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NOTE: NC524SFP is available only on DL370 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 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 550SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter HP Ethernet 10Gb 2-port 570SFP+ Adapter HP Ethernet 10Gb 2-port 570SFP+ Adapter HP Ethernet 10Gb 2-port 570SFP+ Adapter HP Ethernet 16b 4-port 331FLR Adapter HP Ethernet 16b 4-port 36FLR Adapter HP Ethernet 16b 4-port 550FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 570FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 550FLR-SFP+ Adapter		HP NC523SFP 10Gb 2-port Server Adapter	593717-B21
DL980 G7. HP NC550SFP Dual Port 10GbE Server Adapter HP NC552SFP 10Gb 2-port Ethernet Server Adapter HP Ethernet 10Gb 2-port Ethernet Server Adapter HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 550T Adapter HP Ethernet 10Gb 2-port 550SFP+ Adapter HP Ethernet 10Gb 2-port 550T Adapter HP Ethernet 10Gb 2-port 561T Adapter HP Ethernet 10Gb 2-port 570SFP+ Adapter HP Ethernet 10Gb 2-port 331FLR Adapter HP Ethernet 10Gb 2-port 331FLR Adapter HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 550FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 550FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 550FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 534FLR-SFP+ Adapter HP FlexFabric 10Gb 2-port 554FLR-SFP+ Adapter			489892-B21
HP NC552SFP 10Gb 2-port Ethernet Server Adapter 614203-821 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 561T Adapter 716591-821 HP Ethernet 10Gb 2-port 570SFP+ Adapter 716591-821 HP Ethernet 10Gb 2-port 570SFP+ Adapter 718904-821 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 629135-821 HP Ethernet 1Gb 4-port 336FLR Adapter 665240-821 HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter 665240-821 HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter 665243-821 HP Ethernet 10Gb 2-port 561FLR-T Adapter 700699-821 HP Ethernet 10Gb 2-port 570FLR-SFP+ Adapter 777491-821 FlexFabric Adapters HP FlexFabric 10Gb 2-port 533FLR-T Adapter 777491-821 FlexFabric 10Gb 2-port 533FLR-T Adapter 777491-821 HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter 77759-821 HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter 770751-821			
HP Ethernet 10Gb 2-port 530FP Adapter 652503-821 HP Ethernet 10Gb 2-port 560FP+ Adapter 665249-821 HP Ethernet 10Gb 2-port 561T Adapter 716591-821 HP Ethernet 10Gb 2-port 570FP+ Adapter 716591-821 HP Ethernet 10Gb 2-port 570FP+ Adapter 718904-821 FlexibleLOM Adapters NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter. Ethernet Adapters HP Ethernet 16b 4-port 331FLR Adapter 629135-821 HP Ethernet 16b 4-port 366FLR Adapter 665240-821 HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter 665240-821 HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter 665243-821 HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter 700699-821 HP Ethernet 10Gb 2-port 570FLR-SFP+ Adapter 777491-821 FlexFabric Adapters HP FlexFabric 10Gb 2-port 533FLR-T Adapter 700759-821 HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter 700759-821 HP FlexFabric 10Gb 2-port 554FLR-SFP+ Adapter 700759-821 HP FlexFabric 10Gb 2-port 554FLR-SFP+ Adapter 700751-821		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 716591-B21 HP Ethernet 10Gb 2-port 561T Adapter 716591-B21 HP Ethernet 10Gb 2-port 570SFP+ Adapter 718904-B21 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 550FLR-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 533FLR-T Adapter 700759-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 534FLR-SFP+ Adapter 700751-B21 HP FlexFabric 10Gb 2-port 554FLR-SFP+ Adapter 700751-B21		HP NC552SFP 10Gb 2-port Ethernet Server Adapter	614203-B21
HP Ethernet 10Gb 2-port 560SFP+ Adapter 716591-B21 HP Ethernet 10Gb 2-port 570SFP+ Adapter 718904-B21 HP Ethernet 10Gb 2-port 570SFP+ Adapter 718904-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 533FLR-T Adapter 700759-B21 HP FlexFabric 10Gb 2-port 534FLR-SFP+ 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		HP Ethernet 10Gb 2-port 530SFP Adapter	652503-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 336FLR 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 533FLR-T Adapter 700759-B21 HP FlexFabric 10Gb 2-port 534FLR-SFP+ 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		HP Ethernet 10Gb 2-port 530T Adapter	656596-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 HP Ethernet 1Gb 4-port 366FLR Adapter HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 570FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 570FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 570FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter HP FlexFabric 10Gb 2-port 533FLR-T Adapter HP FlexFabric 10Gb 2-port 533FLR-T Adapter HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter HP FlexFabric 10Gb 2-port 554FLR-SFP+ Adapter		HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-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		HP Ethernet 10Gb 2-port 561T Adapter	716591-B21
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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 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	FlexibleLOM Adapters	adapter.	
HP Ethernet 1Gb 4-port 366FLR Adapter HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 561FLR-T Adapter HP Ethernet 10Gb 2-port 570FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 570FLR-SFP+ Adapter FlexFabric Adapters HP FlexFabric 10Gb 2-port 526FLR SFP+ Adapter HP FlexFabric 10Gb 2-port 533FLR-T Adapter HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter HP FlexFabric 10Gb 2-port 554FLR-SFP+ Adapter		•	
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HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter 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		HP Ethernet 1Gb 4-port 366FLR Adapter	665240-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		HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter	647581-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		·	665243-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		HP Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21
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		HP Ethernet 10Gb 2-port 570FLR-SFP+ Adapter	717491-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		FlexFabric Adapters	
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		·	629138-B21
HP FlexFabric 10Gb 2-port 554FLR-SFP+ Adapter 629142-B21 NOTE: Please see the QuickSpecs for Technical Specifications and additional		HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional		·	
		HP FlexFabric 10Gb 2-port 554FLR-SFP+ Adapter	629142-B21
information: www.hp.com/go/ProLiantNICs			
		information: www.hp.com/go/ProLiantNICs	



Technical Specifications

Compliance

- 802.3, 802.3u, 802.3x, 802.3ab, 802.3ad, 802.1p, 802.1Q, 802.3az, IEEE 1588
- PCIe v2.0 standard
- RoHS (6 of 6)
- FCC (U.S. only) Class B
- DOC (Canada) Class B
- CE EN 55024, EN55022 Class B
- VCCI Class II
- UL 1950
- CSA 950
- EN 60950
- CE
- ACPI 1.1a
- Microsoft WHQL (Windows Hardware Quality Labs)

General Specifications

Communications

Intel® Ethernet I350 Controller

Processor

Data rate 10/100/1000 Mbps, Half- and full-duplex

Data path Four lane (x4) PCI Express compatible with x4, x8, and x16 PCI Express slots

Interrupt levels Automatically configured

Cable Connector Two RJ-45 **Bus Connector** PCIe

bus connector PCIE

Distance and

Up to 328 feet/100 m with Category 5 (or better) twisted-pair cabling

Wiring

Card Dimensions (without 5.3 x 2.5 in (13.50cm x 6.4 cm)

brackets) (L x W)

Power and Environmental Operating

Specifications

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

Humidity 10% to 95% non-condensing

Non-operating Temperature -40° to 185° F (-40° to 85° C)

Humidity -5% to 95%

Power requirement 4.1W idle without EEE link partner

3.2W idle with EEE link partner

4.2W maximum

Emissions Standards FCC Class B, VCCI Class B, BSMI Class A, CISPR 22 Class B,

EN 55022 Class B, EN55024-1, ICES-003 Class B, MIC Class B, ACA Class B

Safety Compliant UL, Canada UL, EN60950

Operating System Support

- Microsoft Windows Server 2008
- Microsoft Windows HPC Server 2008
- Red Hat Enterprise Linux 5.7, 6.1
- SUSE Linux Enterprise Server
- Solaris 10
- ESX/ESXi 4.1 & ESXi 5.0
- Citrix Xenserver 6.0
- Microsoft Windows Hyper-V

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

Technical Specifications

Server Linux matrix: http://h18004.www1.hp.com/products/servers/linux/hplinuxcert.html NOTE: For more OS support & certification information, please visit the NIC driver download web pages at this location: http://h18004.www1.hp.com/support/files/networking/us/index.html

Environment-friendly Products and Approach

and Recycling

End-of-life Management 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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