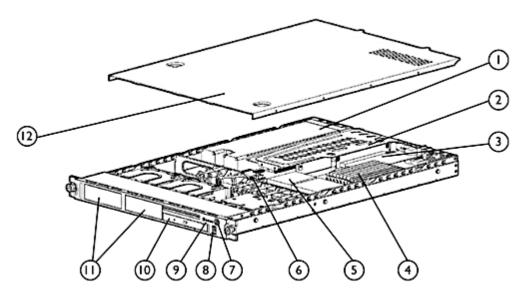
Overview



- 1. 500W power supply
- 2. Full-height, full length 133 MHz PCI-X expansion slot which supports PCI-Express with optional riser board
- 3. Low-profile, half-length 133 MHz PCI-X expansion slot
- 4. Memory DIMM slots
- 5. Intel Xeon Processors (Supports up to 2)
- 6. System fans

- 7. Power on/off
- 8. USB port
- 9. System LEDs
- 10. Optional CD- or DVD-ROM drive
- 11. Two Non-Hot Plug SATA OR SCSI 1" Hard Drive Bays
- 12. Access panel

At A Glance

- Supports 1 or 2 Intel Xeon processors:
 - o 2.8GHz 1MB Level 2 Cache 800MHz front-side bus supporting Hyper-Threading Technology
 - o 3.4GHz 1MB Level 2 Cache 800MHz front-side bus supporting Hyper-Threading Technology
 - o 3.6GHz 2MB Level 2 Cache 800MHz front-side bus supporting Hyper-Threading Technology
- Supports both serial ATA (SATA) and SCSI non-hot plug hard drives
- Includes one full-length and one low-profile 64-bit/133MHz PCI-X slot; PCI Express x8 optional on full-length slot
- IPMI 1.5 support at launch with future support for IPMI 2.0
- HP ProLiant Lights Out 100i Remote Management support standard
- 8 DIMM slots, supporting up 16GB DDR2-400MHz memory
- Optional DVD or CD-ROM drive
- Intel Chipset is E7520
- 1-GB of PC2-3200 DDR2 SDRAM running at 400MHz with Advanced ECC capabilities standard, expandable to 16 GB
- Two integrated Dual Broadcom 10/100/1000 5721 NICs (Wake on LAN and PXE capable)
- Integrated 10/100 NIC dedicated for server management
- Support for up to two 1" SATA/SCSI non-hot plug hard drives
- Two PCI-X 64-bit/133MHz PCI slots operating at 3.3 volts (one full-length, one low-profile)
- Internal storage capacity of up to 500 GB (2 x 250-GB non-hot plug 1" SATA HDDs), or 144GB (2x72GB NHP SCSI HDDs)
- Integrated ATI Rage XL with 8MB SDRAM video
- 500W Power Supply (Non-Hot Plug, autoswitching)
- Four USB ports (two rear, two front)
- Integrated Lights Out 100i
- ROM Setup Utility



Overview

• Protected by HP Services and a worldwide network of resellers and service providers. One-year Next Business Day, on-site limited global warranty. Certain restrictions and exclusions apply. Pre-Failure Notification on processors, memory, and SCSI hard drives. SATA hard drives have a one-year warranty.

Standard Features

Processor

One of the following depending on Model

Intel Xeon 2.8GHz processor with 1MB second level ECC cache standard, 800MHz front-side-bus supporting Hyper-Threading Technology (Supports up to 2 processors)

Intel Xeon 3.4 GHz processor with 1MB second level ECC cache standard, 800MHz front-side-bus supporting Hyper-Threading Technology (Supports up to 2 processors)

Intel Xeon 3.6 GHz processor with 2MB second level ECC cache standard, 800MHz front-side-bus supporting Hyper-Threading Technology (Supports up to 2 processors)

Memory Protection	Advanced ECC capabilities				
Memory	Type	PC2-3200 DDR2 SDRAM	1 running at 400MHz		
	Standard	1 GB (2x512MB)	(2x512MB)		
	Maximum	16 GB (8x2GB)	(8x2GB)		

Network Controller Integrated Dual Broadcom 5721 10/100/1000 NICs (Wake on LAN and PXE capable)

Expansion Slots	Slot #	Bus Speed	Bus #*	Device #**	Hot Plug (Y/N)	Voltage/ Connector	Notes
	1	64-bit/133MHz PCI-X	1	0	Ν	3.3 volts	Full length, full height
	1	X8 PCI Express	5	1	Ν	3.3 volts	Full length, full height
	2	64-bit/133MHz PCI-X	6	3	Ν	3.3 volts	Low-profile

NOTE: For more information regarding PCI-X, please see the following URL: http://www.HP.com/pci-x.

NOTE: All slots can accept universal keyed PCI cards

^{**} Slots are enumerated differently based on OS. MS OS's enumerate from lowest to highest Device ID by bus (starting with the lowest bus).

Storage Controller	Storage Controller Serial ATA (SATA) models offer SATA controller in the chipset; SCSI models will have SCSI c slot (occupies low-profile slot)				
Storage	Diskette Drives DVD-ROM CD-ROM Hard Drives	24x IDE (ATAPI) CD-RC 80 GB, 160GB or 250	DM drive, slim (optional) DM drive (optional) DGB SATA 7200 rpm 1"Drives, or Cor 146GB 10K SCSI Drives (all non-hot plug)		
Maximum Internal Storage	SATA SCSI	500 GB 144 GB	2 x 250 GB 2 x 72.4 GB		

^{*} Default bus assignment. Inserting cards with PCI bridges may alter the actual bus assignment number.

Standard Features

Network RJ-45 (Ethernet) 1-Dedicated for HP ProLiant Lights Out 100i Remote Management

Serial 1
Pointing Device (Mouse) 1
Graphics 1
Keyboard 1

USB 4 (two front, two rear)

NOTE: Please see the following URL for additional information regarding

USB support:

http://h18004.www1.hp.com/products/servers/platforms/usb-support.html.

Network RJ-45 (Ethernet) 2

Graphics Integrated ATI RAGE XL Video Controller with 8MB SDRAM Video Memory

Form Factor Rack Mount (1U)

Industry Standard Compliance ACPI V2.0 Compliant PCI 2.2 Compliant

PXE Support WOL Support

Microsoft® Logo certifications

IPMI 1.5 Compliant at launch with future support for IPMI 2.0

Manageability HP ProLiant Lights Out 100i Remote Management standard

Security Power-on password

Setup password

Server Power Cords One Highline IEC Power cord ships standard (for connection to a Power Distribution Unit)

Power Supply 500 Watts, auto-switching, PFC (Power Factor Correcting)

System Fans 6 - Non-hot plug, Non-redundant system fan shipped standard

Standard Features

OS Support

Microsoft Windows® 2000 Server (32-bit)

Microsoft Windows 2000 Advanced Server (32-bit) Microsoft Windows 2003 Standard Edition (32-bit) Microsoft Windows 2003 Enterprise Edition (32-bit) Microsoft Windows 2003 Web Edition (32-bit)

Microsoft Windows 2003 for Extended Systems Standard Edition (64-bit) Microsoft Windows 2003 for Extended Systems Enterprise Edition (64-bit)

Red Hat Linux AS/ES/WS 3.0 and 4.0 (32- and 64-bit)

SUSE Linux 8 (32-bit)

SUSE Linux 9 (32- and 64-bit)

NOTE: For an up-to-date listing of the latest OS support matrix, please see:

http://www.hp.com/go/supportos

NOTE: For an up-to-date listing of the latest drivers available for the HP ProLiant DL140 G2, please see: http://h18023.www1.hp.com/support/files/server/us/index.html

NOTE: For more complete and up-to-date information on how to buy server operating systems from HP please visit the OS product site at:

http://h18004.www1.hp.com/products/servers/software/OEM.html

NOTE: Drivers may also found on the base media for some Linux OS's. When configuring your server, please consult your base media driver base, or visit HP.com at: http://h18023.www1.hp.com/support/files/server/us/index.html

ProLignt Essentials Foundation Pack Software Essentials Value Packs

Optional ProLiant

Optional software offerings that selectively extend the functionality of an Adaptive Infrastructure to address specific business problems and needs:

- Intelligent Networking Pack detects and analyzes network bottlenecks or broken network linkages and steers traffic to the optimum route based on network conditions.
- Vulnerability and Patch Management Pack identifies and remediates software security vulnerabilities due to missing patches as well operating system configurations that can be exploited by viruses, worms, and other blended threats.

NOTE: Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to http://www.hp.com/servers/proliantessentials or the various ProLiant Essentials Value Pack product QuickSpecs for more

NOTE: For more information regarding ProLiant Essentials Software, please see the following URL: http://www.hp.com/servers/proliantessentials.

Telco Rack Support

Telco Rack Kit:

Support for all 2-post Telco racks requires the use of the standard rack kit and an additional option kit from Rack Solutions.

http://www.racksolutions.com/hp

Standard Features

Factory Express Portfolio for Servers and Storage

HP Factory Express offers configuration, customization, integration and deployment services for HP servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed.

Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HP products supported through Factory Express include a wide array of servers and storage: HP Integrity, HP ProLiant, HP ProLiant Server Blades, HP BladeSystem, HP 9000 servers as well as the MSA1000, VA7xxx, EVA3000 & EVA5000, XP, rackable tape libraries and configurable network switches.

For more information on Factory Express services for your specific server model please contact your sales representative or go to http://www.hp.com/go/factory-express.

Service and Support

This product is covered by a global limited warranty and supported by HP Services and a worldwide network of resellers and service providers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Additional support may be covered under the warranty or available for an additional fee. Enhancements to warranty services are available through HP Care Pack services or customized service agreements.

NOTE: Limited warranty includes 1 year parts, 0 years Labor, 0 years on-site support. NOTE: SATA hard drives have a one-year warranty.

Care Pack services provide a range of life cycle support options that let you choose the service levels that meet your business requirements, from basic to mission-critical.

A full range of HP Care Pack hardware and software services are available including:

- Installation and start up
- Education courses
- Extended onsite hardware coverage hours from same business day 13 hours, 5 day to 24 hours, 7 days call window with options including 4-hour response or 6-hour Call To Repair
- Comprehensive range of software technical support for Microsoft, Linux and ProLiant Essentials solutions helping to deliver high level of application availability. Response times range from 30 mins for critical problems to 2 hours.
- System Management, Performance Services and Mission Critical Support Solution

HP Care Pack services include coverage for the HP branded hardware options qualified for the server, purchased at the same time or afterward, internal to the enclosure, as well as 22" and smaller external monitors and tower UPS options up to 3kVA; these items will be covered at the same service level and for the same coverage period as the server. Coverage of UPS Battery is not included, standard warranty terms & conditions apply. For servers or storage systems installed within a rack, service also covers all HP qualified rack options installed within the same rack.

NOTE: For more information on HP Care Pack services, contact any of our worldwide sales offices or resellers or visit our worldwide Web site on the internet at: http://www.hp.com/hps/carepack

NOTE: For more complete information on HP Services offerings, customers and resellers, please visit us at: http://www.hp.com/hps

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



Models

ProLiant DL140 G2 2.8 GHz Xeon 1GB,	Processor	One (1) Intel Xeon 2.8GHz processor, 800MHz front-side-bus (Supports up to 2)				
80GB, (1P) SATA	Cache Memory	1MB second level ECC cache				
375589-001	Memory	1 GB PC2-3200 DDR2 SDRAM running at 400MHz, with Advanced ECC capabilities Integrated Dual Broadcom 10/100/1000 NICs (Wake on LAN and PXE capable)				
	Network Controller					
	Storage Controller	Embedded SATA Controller				
	Hard Drive	80-GB NHP SATA 1.5Gb 7,200 rpm Hard Drive (1")				
	Internal Storage	500 GB maximum (with optional hard drive)				
	Form Factor	Rack Mount (1U)				
ProLiant DL140 G2 2.8GHz Xeon 1GB,	Processor	One (1) Intel Xeon 2.8GHz processor, 800MHz front-side-bus (Supports up to 2)				
2.8GHz Xeon 1GB, 36GB, (1P) NHP SCSI 375590-001	Cache Memory	1MB second level ECC cache				
	Memory	1 GB PC2-3200 DDR2 SDRAM running at 400MHz, with Advanced ECC capabilities				
	Network Controller	Integrated Dual Broadcom 10/100/1000 NICs (Wake on LAN and PXE capable)				
	Storage Controller	U320 Single Channel PCI-X controller (in low profile slot)				
	Hard Drive	36.4 GB 15,000 rpm, U320 Non-Hot Plug Hard Drive, (1")				
	Internal Storage	144 GB maximum (with optional hard drive)				
	Form Factor	Rack Mount (1U)				
ProLiant DL140 G2 3.4 GHz Xeon 1GB,	Processor	One (1) Intel Xeon 3.4 GHz processor, 800MHz front-side-bus (Supports up to 2)				
80GB, (1P) SATA	Cache Memory	1MB second level ECC cache				
375592-001	Memory	1 GB PC2-3200 DDR2 SDRAM running at 400MHz, with Advanced ECC capabilities				
	Network Controller	Integrated Dual Broadcom 10/100/1000 NICs (Wake on LAN and PXE capable)				
	Storage Controller	Embedded SATA Controller				
	Hard Drive	80-GB NHP SATA 1.5Gb 7,200 rpm Hard Drive (1")				
	Internal Storage	500 GB maximum (with optional hard drive)				
	Form Factor	Rack Mount (1U)				

Models

ProLiant DL140 G2 3.4 GHz Xeon 1GB,	Processor	One (1) Intel Xeon 3.4 GHz processor, 800MHz front-side-bus (Supports uto 2) 1MB second level ECC cache				
36GB, (1P) SCSI	Cache Memory					
375593-001	Memory	1 GB PC2-3200 DDR2 SDRAM running at 400MHz, with Advanced ECC capabilities				
	Network Controller	Integrated Dual Broadcom 10/100/1000 NICs (Wake on LAN and PXE capable)				
	Storage Controller	U320 Single Channel PCI-X controller (in low profile slot)				
	Hard Drive	36.4 GB 15,000 rpm, U320 Non-Hot Plug Hard Drive, (1")				
	Internal Storage	144 GB maximum (with optional hard drive)				
	Form Factor	Rack Mount (1U)				
ProLiant DL140 G2 3.6 GHz Xeon 1GB, 80GB,	Processor	One (1) Intel Xeon 3.6 GHz processor, 800MHz front-side-bus (Supports up to 2)				
(1P) SATA	Cache Memory	2MB second level ECC cache				
383504-001	Memory	1GB PC2-3200 DDR2 SDRAM running at 400MHz, with Advanced ECC capabilities				
	Network Controller	Integrated Dual Broadcom 10/100/1000 NICs (Wake on LAN and PXE capable)				
	Storage Controller	Embedded SATA Controller				
	Hard Drive	80-GB NHP SATA 1.5Gb 7,200 rpm Hard Drive (1")				
	Internal Storage	500 GB maximum (with optional hard drive)				
	Form Factor	Rack Mount (1U)				
ProLiant DL140 G2 3.6 GHz Xeon 1GB,	Processor	One (1) Intel Xeon 3.6 GHz processor, 800MHz front-side-bus (Supports up to 2)				
36GB, (1P) SCSI	Cache Memory	2MB second level ECC cache				
383503-001	Memory	1GB PC2-3200 DDR2 SDRAM running at 400MHz, with Advanced ECC				

capabilities

Network Controller Integrated Dual Broadcom 10/100/1000 NICs (Wake on LAN and PXE

capable)

Storage Controller U320 Single Channel PCI-X controller (in low profile slot)

Hard Drive 36.4 GB 15,000 rpm, U320 Non-Hot Plug Hard Drive, (1")

Internal Storage 144 GB maximum (with optional hard drive)

Form Factor Rack Mount (1U)

Models

Country Code Key	XX=00	NA
	XX=01	Australia
	XX=03	UK
	XX=04	Germany
	XX=05	France
	XX=20	BRZ
	XX=29	Japan
	XX=37	AP
	XX=42	Euro
	XX = AA	PRC





Configuration Information - Factory Integrated Models (North America only)

NOTE: For Configure to Order requirements within EMEA region, please consult local Sales Contact.

NOTE: HP does not allow factory integration of options into standard models listed above.

Configure-to-order servers must start with a CTO Chassis.

NOTE: This product offering does not support HP Factory Express Server Configuration Level 1.

Step 1: Base Configuration

SATA Model HP ProLiant DL140 G2 SATA Rack Chassis (North America)

389452-405

Factory Integrated Model ships with:

Integrated Dual Broadcom 10/100/1000 NICs (Wake on LAN and PXE capable)

Embedded SATA Controller

Two available 64-bit/133MHz PCI-X slots, including one full-length/full height and

one low-profile/half height slot

500 Watt power supply

One Highline IEC Power cord

6 non-hot plug fans

Rack (1U)

SCSI Model HP ProLiant DL140 G2 SCSI Rack Chassis (North America)

376343-405

383335-L21

378283-L21

343055-B21

343056-B21

Factory Integrated Model ships with:

Integrated Dual Broadcom 10/100/1000 NICs (Wake on LAN and PXE capable)
One available 64-bit/133MHz PCI-X slot, (full-length/full height) The low-profile/half

height slot houses the SCSI controller.

500 Watt power supply
One Highline IEC Power cord

6 non-hot plug fans

Rack (1U)

NOTE: The selection of SCSI Model (P/N 376343-405), requires the selection of (1) SCSI Controller. Please see Step 3 of this section for compatible SCSI Controllers.

Step 2: Choose Required Options (only one of the following from each list unless otherwise noted)

Base Processors Intel X2.8GHz/800-1MB FIO BASE 383334-L21

NOTE: If 2 processors are desired, select one 383334-L21 and one 383334-B21.

TIOTE. If 2 processors are desired, select one 303334-12 rand one 30334-12 r.

Intel X3.4GHz/800-1MB FIO BASE NOTE: If 2 processors are desired, select one 383335-L21and one 383335-B21.

Intel X3.6GHz/800-2MB FIO BASE

NOTE: If 2 processors are desired, select one 378283-L21 and one 378283-B21.

Base Memory 1GB of Advanced PC2 PC3200 DDR2 SDRAM DIMM Memory Kit (2x512 MB)

2GB of Advanced PC2 PC3200 DDR2 SDRAM DIMM Memory Kit (2x1024 MB)

4GB of Advanced PC2 PC3200 DDR2 SDRAM DIMM Memory Kit (2x2048 MB) 343057-B21



Configuration Inf	ormation - Factory Integrated Models (North America only)	
Hard Disk Drive	250-GB SATA 1.5Gb 7,200 rpm Hard Drive (1")	399165-B21
	160-GB SATA 1.5Gb 7,200 rpm Hard Drive (1")	399164-B21
	80-GB NHP SATA 1.5Gb 7,200 rpm Hard Drive (1")	383410-B21
	36.4 GB 15,000 rpm, U320 Non-Hot Plug Hard Drive (1")	357012-B21
	72.8 GB 10,000 rpm, U320 Non-Hot Plug Hard Drive (1")	332751-B21
	146.8 GB 10,000 rpm, U320 Non-Hot Plug Hard Drive (1")	356990-B21
•	itional Options for Factory Integration I options, please refer to the "Options" section below.	
Controllers	HP Low Profile U320 DL140 G2/DL145 G2 Controller, FIO	390402-B21
-	HP Single Channel U320 SCSI Controller	374654-B21
	HP Dual Channel U320 SCSI Controller	268351-B21

NOTE: Must choose one of the above listed Controllers when selecting the SCSI

Model (P/N 376343-405) in step 1 of this section



Options Processor Intel Xeon 2.8GHz/1MB Processor Option Kit 383334-B21 Intel Xeon 3.4GHz/1MB Processor Option Kit 383335-B21 378283-B21 Intel Xeon 3.6GHz/2MB Processor Option Kit Memory (DIMMs) 4GB of Advanced PC2 PC3200 DDR2 SDRAM DIMM Memory Kit (2x2048 MB) 343057-B21 2GB of Advanced PC2 PC3200 DDR2 SDRAM DIMM Memory Kit (2x1024 MB) 343056-B21 1GB of Advanced PC2 PC3200 DDR2 SDRAM DIMM Memory Kit (2x512 MB) 343055-B21 DVD-ROM Drive 361040-B21 **Optical Drives** 24x CD-ROM Drive 349046-B21 Multibay II DVD/CD-RW Combo Drive PA850A NOTE: When purchasing the Multibay II DVD/CD-RW Combo Drive, (P/N PA850A), the USB 2.0 Multibay II Cradle (P/N PA509A) is required. USB 2.0 MultiBay II Cradle, External PA509A NOTE: When purchasing the Multibay II DVD/CD-RW Combo Drive,(P/N 850A), the USB 2.0 Multibay II Cradle, (P/N PA509A) is required Communications HP NC370F PCI-X Multifunction 1000SX Gigabit Server Adapter 374193-B21 NOTE: A minimum of 1 GB of memory is required for NC370x adapters, with a maximum of two NC370x adapters permitted in a server.

HP NC370T PCI-X Multifunction 1000TGigabit Server Adapter NOTE: A minimum of 1 GB of memory is required for NC370x adapters, with a maximum of two NC370x adapters permitted in a server.	374191-B21
HP NC150T PCI 4-port Gigabit 1000T Combo Switch Adapter	367132-B21
HP NC310F PCI-X 1000SX Gigabit Server Adapter	368169-B21
HP NC320T PCI Express 1000T Gigabit Server Adapter	367047-B21
HP NC1020 PCI 1000T Gigabit Server Adapter	353377-B21
HP NC7170 PCI-X Dual Port 1000T Gigabit Server Adapter	313881-B21
HP NC7771 PCI-X 1000T Gigabit Server Adapter	290563-B21
HP NC570C PCI-X Dual-port 4x Fabric Adapter	376158-B21
HP NC571C PCI Express Dual-port 4x Fabric Adapter	376160-B21
HP 24-Port 4x Fabric Copper Switch	376227-B21
HP 4x Fabric 1m Copper Cable	376232-B21
HP 4x Fabric 3m Copper Cable	376232-B22
HP 4x Fabric 5m Copper Cable	376232-B23
Myrinet-Fiber/PCI-X Interface (Dual channel Rev. D card)	360040-B21
Myrinet -Fiber/PCI-X Interface, M3F-PCIXD-2	257894-006
Myrinet 2XP PCI-X, Fiber F-Series, 2MB NIC	390456-B21
NOTE: For HPC interconnect adapters please refer to the HPC Interconnect section	



below.

Options		
Rack Kits	1U Cable Management Arm NOTE: Package contains two cable management arms	365403-B21
Hard Drives	SATA - Non-Hot Plug	
	250-GB SATA 1.5Gb 7,200 rpm Hard Drive (1")	349239-B21
	160-GB SATA 1.5Gb 7,200 rpm Hard Drive (1")	349238-B21
	80-GB NHP SATA 1.5Gb 7,200 rpm Hard Drive (1")	383410-B21
	U320 SCSI- Not-Hot Plug	
	36.4 GB 15,000 rpm, U320 Non-Hot Plug Hard Drive (1")	357012-B21
	72.8 GB 10,000 rpm, U320 Non-Hot Plug Hard Drive (1")	332751-B21
	146.8 GB 10,000 rpm, U320 Non-Hot Plug Hard Drive (1")	356990-B21
	*NOTE: When deploying systems with either 160GB or 250 GB NHP SATA drives, you will need to remove the drive from the carrier shipped with the drive and install it into the drive carrier that ships with the server. Please see installation sheet for details.	
Tape Drives	HP StorageWorks DAT 40 USB Tape Drive, External (Carbonite)	DW023A
	HP StorageWorks DAT 72 USB Tape Drive, External (Carbonite)	DW027A
	HP StorageWorks Ultrium 232 Tape Drive, External	DW065A
	HP StorageWorks DAT 24 Tape Drive, External (Flint)	C1556D
	HP StorageWorks DAT 40 Tape Drive, External (Carbon)	C5687C
	HP StorageWorks DAT 72 Tape Drive, External (Carbon)	Q1523A
	1U Rack-Mount Kit with DAT 72 drive	A7443A
	1U Rack-Mount Kit with Ultrium 215 drive	A7444A
	NOTE: When attaching to an external tape drive, autoloader or jukebox, you must also purchase a HBA	
	NOTE: For a complete listing of HP tape drive offerings supported with the DL140 G2, visit	
	http://www.hp.com/products1/storage/compatibility/tapebackup/ISS/index.html	
Storage Controllers and	HP U320 Internal SCSI Cable Kit	385749-B21
options	64-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2	374654-B21
	HP PL100 SCSI RAID Controller	355671-B21
	64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter	268351-B21
	HP PCI Express Riser Board Kit	378841-B21



Options

ProLiant Essentials	ProLiant Essentials Intelligent Networking Pack				
Licensing and Packaging	ProLiant Essentials Intelligent Networking Pack Windows Edition, Single Server License NOTE: For use with a single server. Contains one license with a unique license activation key and documentation.	372906-B21			
	NOTE: For additional ProLiant Intelligent Networking Pack License Kits please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/11925_div/11925_div.HTML				
	ProLiant Essentials Vulnerability and Patch Management Pack				
	ProLiant Essentials Vulnerability and Patch Management Pack, Single-Server License NOTE: For use with a single server. Contains one license with a unique license activation key and documentation.	371645-B21			
	NOTE: For additional ProLiant Vulnerability and Patch Management Pack License Kits, please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12111 div/12111 div.HTML				
	NOTE: Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to http://www.hp.com/servers/proliantessentials or the various ProLiant Essentials Value Pack product QuickSpecs for more information. NOTE: For more information regarding ProLiant Essentials Software, please see the following URL: http://www.hp.com/servers/proliantessentials .				
HP KVM Switch Options	HP 1x4 USB/PS2 KVM Switch, TT (NA/JPN)	371301-D71			
·	HP 1x4 USB/PS2 KVM Switch, TT (AU/NZ)	371301-011			
	HP 1x4 USB/PS2 KVM Switch, TT (UK)	371301-031			
	HP 1x4 USB/PS2 KVM Switch, TT (EU)	371301-A21			
	HP 1x4 USB/PS2 KVM Switch, RM (ALL)	371302-B21			
	HP PS2 KVM Cable with audio, 6', 2-pack	371730-B21			
	HP USB KVM Cable with audio, 6', 2-pack	371729-B21			
USB Options	128MB USB Drive Key	DQ819B			
•	256MB USB Drive Key	DL973B			
	USB Optical Scroll Mouse (Carbonite)	DC172B			
	USB 1.44-MB External Diskette Drive	DC141B			



Service and Support, HP Care Pack, and Warranty Information

Service and Support Offerings (HP Care Pack Services) Hardware Services 4-Hour On-site Service

13-Hour x 5-Day Coverage, 3 Years, Electronic 24-Hour x 7-Day Coverage, 3 Years, Electronic

U9510E

Hardware Services Next Business Day On-Site Service

9-Hour x 5-Day Coverage, 3 Years, Electronic

U9508E

U9511E

U9509E

Hardware Services 6-Hour Call to Repair On-Site Service

6-Hour Call to Repair, On-site Service, 7-Day x 24-Hour Coverage, 3 Years,

Electronic

Hardware Installation, Electronic U9520E

NOTE: For more information, customer/resellers can contact

http://www.hp.com/services/carepack



HPC Interconnects

NOTE: High Performance Computing (HPC) interconnect technologies are available for the DL140 under the Cluster Platform product portfolio. These high-speed interconnects are fully supported by HP when they are part of these configure to order clusters. Solutions can be defined with a lot of flexibility with the help of configuration tools. Please visit the following URL to configure HPC Clusters with InfiniBand, Gigabit Ethernet or Myrinet Interconnects: http://www.hp.com/techservers/clusters/ucp/index.html

HPTC Interconnect InfiniBand PCI-X and PCI-Express adapters

Gigabit Ethernet Use embedded ports

Myrinet XP PCI-X Rev D and Rev E adapters





Memory

HP ProLiant DL140 G2 (all models)

Standard Memory

1GB (2x512MB) of PC2-3200 DDR2 SDRAM running at 400MHz, with Advanced ECC capabilities Memory installed.

Maximum Memory

Up to 16GB memory is available with the optional installation of PC2-3200 Registered ECC DDR SDRAM DIMM Memory kits. Memory should be installed in pairs and matched for optimum performance.

NOTE: Chart does not represent all possible memory configurations.

Memory	Slot							
	1	2	3	4	5	6	7	8
Standard (1GB)	512MB	512MB	Empty	Empty	Empty	Empty	Empty	Empty
Maximum (16GB)	2GB							

Following are memory options available from HP:

4096MB of Advanced ECC PC2-3200 DDR SDRAM DIMM Memory Kit (2 x 2048 MB)

343057-B21

2048MB of Advanced ECC PC2-3200 DDR SDRAM DIMM Memory Kit (2 x 1024 MB)

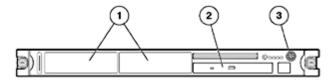
343056-B21

1024MB of Advanced ECC PC2-3200 DDR SDRAM DIMM Memory Kit (2 x 512 MB)

343055-B21



Storage



- 1 Two 1" Non-hot plug SATA or SCSI Hard Drive Bays
- 2 Optional CD- ROM or DVD drive
- 3 Power On/Off

Number of drive positions to match table below.

Drive Support

Removable Media	Quantity Supported	Position Supported	Controller
IDE (ATAPI) CD-ROM Drive	Up to 1	А	Integrated IDE (ATAPI) (optional)
DVD-ROM	Up to 1	А	Integrated IDE (ATAPI) (optional)

Hard Drives

SATA - Non-Hot Plug

	Quantity Supported	Position Supported	Controller
1-inch			
80/160/250GB	Up to 2	1	Embedded SATA Controller

NOTE: When deploying 160GB or 250GB NHP SATA drives, you must remove the drive from the carrier that ships with the drive and install it into the drive carrier that ships with the server. Please see installation sheet for more details.

SCSI- Non-Hot Plug

	Quantity Supported	Position Supported	Controller
1-inch			
36GB 15k or 72GB 10k	Up to 2	1	Ultra 320 Single Channel PCI-X card (in low profile slot) on SCSI models



Power Specifications

Spare Kit 389322-001

Operational Input Voltage Range (V

90Vac to 264Vac full range

rms)

Frequency Range (Nominal) (Hz) 47 Hz to 63 Hz

Nominal Input Voltage (Vrms)	100	115	200	220	230	240
Max Rated Output Wattage Rating	500	500	500	500	500	500
Nominal Input Current (A rms)	6.84	5.78	3.25	2.91	2.75	2.63
Max Rated Input Wattage Rating (Watts)	684	665	649	641	632	632
Max. Rated VA (Volt-Amp)	820	820	820	820	820	820
Efficiency (%)	73	75	77	78	79	79
Power Factor	1.00	1.00	.99	.98	.98	.98
Leakage Current (mA)	<3.5	<3.5	<3.5	< 3.5	<3.5	<3.5
Maximum Inrush Current (A peak)	60	60	60	60	60	60
Maximum Inrush Current duration (mS)	1	1	1	1	1	1

System Specifications

Power

ProLiant DL140 G2 Fully Configured	110V/60Hz	220V/50Hz
Fully Loaded System Input Wattage (W)	682	660
Fully Loaded System Input Current (A rms)	6.2	3.0
Fully Loaded System Thermal (BTU- Hr)	2327	2252
Fully Loaded System VA (Volt-Amp)	682	660
System Leakage with all power supplies loaded (mA)	<3.5	<3.5
System Inrush Current with all power supplies loaded (A)	60	60
Power cord requirements	Nema 5-15P to IEC320-C13	IEC320-C13 to IEC320-C14

^{**}Power shown is for a fully configured system consisting of (2) CPU, (8) double-sided DIMMs, (2) HDDs, (1) CD-ROM, and (2) PCI cards.

Power Cord Part Number-All Countries

307348-B21

Power Cord - 12' (US)

307372-001



Technical Specifications

System Unit Dimensions (HxWxD) 1.70 x 16.78 x 26.75 in (4.32 x 42.62 x 67.95 cm)

(with feet)

Weight (approximate) 35 lb (15.87 kg) Fully configured

Input Requirements Range Input Voltage 90 to 140 VAC/180 to 264 VAC

(per power supply) Normal Line Voltage 115 or 230 VAC

Line Frequency 47 to 63 Hz

Rated Input Current load 7.1A at 115VAC, 3.6A at 230VAC

BTU Rating BTU-Hr 2371

Power Supply Output Rated Steady-State Power 500W

Power (per power supply) Maximum Peak Power 645W

Temperature Range Operating 50° to 95° F (10° to 35° C)

Shipping -40° to 140° F (-40° to 60° C)

10% to 85%

Relative Humidity Operating
(non-condensing)

Non-operating 10% to 95%

Acoustic Noise Idle (Fixed Disk Drives

Spinning)

L WAd (BELS) 6.31

Operating

(Random Seeks to Fixed

Disks)

L WAd (BELS) 6.32

Non-Hot Plug SATA Hard 80 GB 7.2K Capacity 80027 MB

 Drives
 383410-B21
 Height
 1.028 in (2.61 cm)

 Width
 4.0 in (10.16 cm)

Interface SATA 150
Transfer Rate 150 MB/s

Synchronous (Maximum)

Seek TimeSingle Track0.8 ms(typical reads, including
settling)Average9.0 msFull-Stroke17.0 ms

Full-Stroke 17.0 ms
Rotational Speed 7,200 rpm

Physical Configuration Bytes/Sector 512

Logical Blocks 160,086,528

Operating Temperature 41° to 131° F (5° to 55° C)

Technical Specifications

Integrated Dual Network Interface 10Base-T/100Base-TX/1000Base-TX

Broadcom 10/100/1000 Compatibility IEEE 802.3 10Base-T NICs (Wake on LAN and

IEEE 802.3 1000Base-T PXE capable) IEEE 802.3 100Base-TX

> Data Transfer Method 64-bit, 133MHz PCI(X)1.0

Network Transfer Rate 10Base-T (Half-Duplex) 10 Mb/s

> 10Base-T (Full-Duplex) 20 Mb/s 100Base-TX (Half-Duplex) 100 Mb/s 100Base-TX (Full-Duplex) 200 Mb/s 2000 Mb/s

1000Base-TX (Half and

Full-Duplex)

Connector **RJ-45**

Cable Support 10Base-T Categories 3, 4 or 5 UTP;

up to 328 ft (100 m)

10/100/1000Base-TX Category 5 UTP (2 Pair);

up to 328 ft (100 m)

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