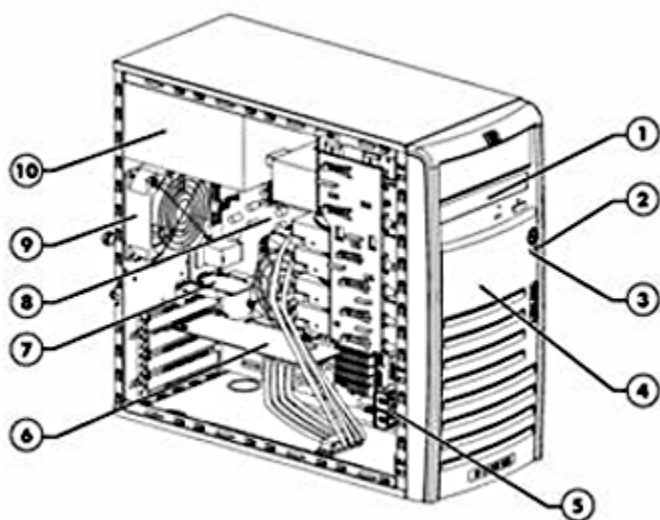
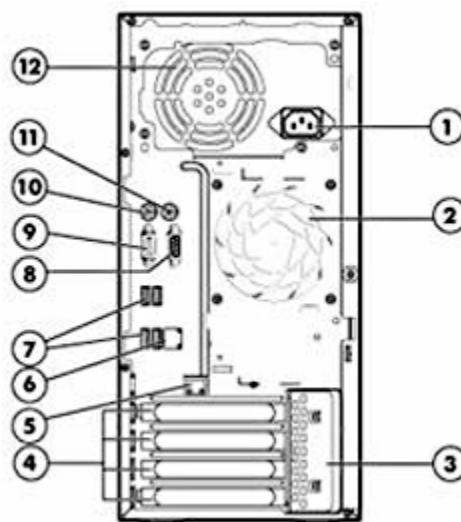


### Overview



#### Front View:

1. DVD-ROM Drive
2. Power LED
3. Drive Activity LED
4. Front Bezel
5. Full Length Card Retainer
6. HDD Controller Card (Optional)
7. HP ProLiant100 G5 Lights-Out 100c Remote Management Card port (Optional)
8. System Board
9. Rear System Fan
10. 365W Power Supply



#### Rear View:

1. Power Supply Outlet
2. Rear System Fan
3. PCI Slot Cover Lock
4. PCI Slot Covers
5. HP ProLiant100 G5 Lights-Out 100c Remote Management Card port (Optional)
6. LAN Port (RJ-45)
7. Rear USB 2.0 Ports
8. Serial Port
9. VGA Port
10. PS/2 Keyboard Port
11. PS/2 Mouse Port
12. Power Supply Unit (PSU) Fan

### What's New

- AMD Opteron™ 1354 processor available in ready-built configuration

### Overview

#### At A Glance

- **Processor:**
  - AMD Opteron™ processors Model 1300 series
  - AMD Opteron™ processors Model 1200 series
  - AMD Athlon™ processor Model 4450B
  - AMD Athlon™ processor Model 1640B
- **Memory:**
  - 512 MB or 1GB Standard/8 GB Maximum of PC2-6400 DDR2 Unbuffered ECC
- **Storage Controller:**
  - SATA Models: 4 Port SATA controller with Embedded RAID on Motherboard (RAID 0, 1, 5)
- **Internal Drive Support:**
  - 4 HDD Support:
    - 3.0TB SATA max storage (4 x 750GB)
    - 1.8TB SAS max storage (4 x 450GB)
- **Network Controller:**
  - Embedded NC105i PCI Express Gigabit Ethernet Server Adapter
- **Expansion Slots:**
  - Slot 1: PCI 32-bit/33MHz PCI at 3.3V
  - Slot 2: PCI-Express x1 connector with x1 link
  - Slot 3: PCI-Express x8 connector with x8 link
  - Slot 4: PCI-Express x16 connector with x16 link
- **USB 2.0 Ports:**
  - Eight (8) total USB Ports
    - 2 Front
    - 4 Rear
    - 2 Internal (one for tape, one for standard USB device)
- **Management:**
  - Standard Lights Out 100 IPMI 2.0 reporting
  - Optional HP ProLiant 100 G5 Lights Out 100c Remote Management Card
  - Standard HP ProLiant ML115 G5 Easy Set-Up CD
- **Form Factor:**
  - Micro ATX Tower (4U)
- **Warranty:**
  - This product is covered by a global limited warranty and supported by HP Services and a worldwide network of HP Authorized Channel Partners. Hardware diagnostic support and repair is available for one year from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HP Care Pack services or customized service agreements. SATA hard drives have a one year warranty. SAS Enterprise drives have a three-year warranty.  
**NOTE:** Server Warranty includes 1 year Parts, 1 year Labor, 1-year on-site support with next business day response. (3-1-1 warranty offered in AP only, excluding Japan). Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have HP replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at:  
<http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html>

### Standard Features

**NOTE:** For a brief, printer friendly data sheet that describes this product and informs you of the essential capabilities and specifications, please visit: [http://h18004.www1.hp.com/products/quickspecs/DS\\_00136/DS\\_00136.pdf](http://h18004.www1.hp.com/products/quickspecs/DS_00136/DS_00136.pdf)

#### Processor

One of the following depending on Model

#### Quad-Core Processors

AMD Opteron™ Processor Model 1354 (2.2 GHz, 75W, 2MB)

AMD Opteron™ Processor Model 1352 (2.1 GHz, 75W, 2MB)

**NOTE:** Offered through Configure-To-Order only. See Factory Integrated Models section for more details.

#### Dual-Core Processors

AMD Opteron™ Processor Model 1222 (3.0 GHz, 95W, 2MB)

**NOTE:** Offered through Configure-To-Order only. See Factory Integrated Models section for more details.

AMD Opteron™ Processor Model 1218 (2.6 GHz, 95W, 2MB)

**NOTE:** Offered through Configure-To-Order only. See Factory Integrated Models section for more details.

AMD Athlon™ Processor Model 4450B (2.3 GHz, 45W, 1MB)

**NOTE:** Offered through Configure-To-Order only. See Factory Integrated Models section for more details.

#### Single-Core Processors

AMD Athlon™ Processor Model 1640B (2.7 GHz, 45W, 512KB)

**NOTE:** Offered through Configure-To-Order only. See Factory Integrated Models section for more details.

#### Cache Memory

One of the following depending on Model

2MB Level 2 cache (AMD Opteron™ 1354, 1352, 1222, and 1218 models)

1MB Level 2 cache (AMD Athlon™ 4450B models)

512KB Level 2 cache (AMD Athlon™ 1640B models)

#### Chipset

nVidia NFP3400

#### Memory Protection

ECC

#### Memory

Type PC2-6400 unbuffered DDR2 ECC 800MHz

Standard 512 MB/1GB

Maximum 8 GB

#### Network Controller

Embedded NC105i PCI Express Gigabit Ethernet Server Adapter

### Standard Features

Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number*	Device Number	Form Factor	NOTES
1	PCI	32-bit	N/A	1	8	Full height slot	33MHz/3.3V
2	PCI-e	X1	X1	4	0	Full height slot	
3	PCI-e	X8	X8	2	0	Full length, full height slot	
4	PCI-e	X16	X16	12	0	Full length, full height slot	

\*Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number.

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

\*\*\* Indicates the number of physical electrical lanes running to a PCI-e connector.

**NOTE:** PCI-X Interface (PCI 32bit/33MHz compatible)

<b>Storage Controller</b>	Integrated 4 port SATA controller with embedded RAID (0, 1, 5) <b>NOTE:</b> Embedded RAID setup instructions are located in the User Guide. CTO RAID set-up is not available. HP ProLiant ML100 Series Server User Guide: <a href="http://h20000.www2.hp.com/bc/docs/support/SupportManual/c00260539/c00260539.pdf">http://h20000.www2.hp.com/bc/docs/support/SupportManual/c00260539/c00260539.pdf</a>
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<b>Storage</b>	Optical Drive Hard Drives	SATA DVD-ROM Drive 160GB SATA 7200 rpm Drive
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<b>Maximum Internal Storage</b>	<b>Type</b>	
	<b>Non-Hot Plug SAS</b>	1.8TB (4 x 450GB)
	<b>Non-Hot Plug SATA</b>	3.0TB (4 x 750GB)

<b>Interfaces</b>	Parallel	0
	Serial	1
	Pointing Device (Mouse, PS2)	1
	Graphics	1
	Keyboard (PS2)	1
	USB 2.0 Ports	8 total (4 rear, 2 front panel, 2 internal (one for USB Tape connectivity)) <b>NOTE:</b> Internal USB ports are optimal for the attachment of HP USB DAT Tape Drives <b>NOTE:</b> Please see the following URL for additional information regarding USB support: <a href="http://h18004.www1.hp.com/products/servers/platforms/usb-support.html">http://h18004.www1.hp.com/products/servers/platforms/usb-support.html</a>
	Network RJ-45 (Ethernet)	1
	Management	HP ProLiant G5 Lights-Out 100c Remote Management port (Optional)

### Standard Features

**Graphics** 32MB shared supporting 1600x1200x16M resolution

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**Form Factor** Micro ATX Tower (4U)

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**Remote Management** Lights-Out 100c

Lights Out LO100c is a family of Remote Management Card (RMC) for ProLiant 100 series servers that do not have embedded LO100i. The LO100c has all the features of the LO100i Advanced license and allows customers, or their service providers, to remotely manage ProLiant servers over a LAN or the Internet from anywhere, anytime regardless whether the server is located in the same building, across town, or around the globe.

With LO100c, users can acquire complete remote control with Virtual KVM (graphical hardware-based, remote console). Users can also access the server's serial console, control system power, update system firmware and software, as well as monitor system environmental conditions. The LO100c remote management card can be accessed from a web browser or command line interface. This virtual "at-the-server" functionality means administrators stay in control of remote HP ProLiant 100 series servers.

The HP Lights-Out100c consists of a management processor and firmware that provides cost-effective, entry-level lights-out functionality, basic system board management functions, and diagnostics.

**NOTE:** For more information, please refer to the QuickSpecs for the LO100c found at:

<http://h18004.www1.hp.com/products/servers/management/remotemgmt/lightsout100/index.html>

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**Core Infrastructure Management** HP ProLiant ML115 G5 Easy Set-up CD

The HP ProLiant Easy Set-up CDs optimize single-server setup, providing a simple way to deploy reliable and consistent server configurations. The HP ProLiant 100 Series Easy Set-up CD ship standard with the ML115 G5.

This CD offers essential single-server deployment tools for HP ProLiant 100 series servers that simplify HP entry server setup, providing a repeatable way to deploy reliable and consistent single-server configurations. The HP ProLiant Easy Set-up CDs assist with the OS installation process by preparing the system for installing "off-the-shelf" versions of Windows operating system software and automatically integrating optimized HP ProLiant server software drivers and utilities. Users enjoy the following benefits:

- An easy-to-use, intuitive graphical interface that prepares your system for the OS installation process.
- Integration of key server software drivers with assisted installation.
- Dependency and validity checks to ensure that all supported ProLiant software can be installed.

For the latest information about other related software; please visit the HP Insight Control Management Software Portfolio at:

<http://h18004.www1.hp.com/products/servers/management/> and the HP ProLiant Easy Set-up CD Web site at [www.hp.com/servers/easysetup](http://www.hp.com/servers/easysetup)

### Standard Features

Subscriber's Choice	Subscriber's Choice Driver and Support Alerts/Notifications is a web-based email subscription service that provides software and driver change notifications for ProLiant products. Sign up at <a href="http://www.hp.com/go/subscriberschoice">http://www.hp.com/go/subscriberschoice</a> and customize your profile to receive various new alerts as they become available, on a weekly or monthly basis.
ROMPaq software and latest drivers	The latest software, drivers, and firmware fully optimized and tested for your ProLiant server and options, available through download from the software and drivers website pages at <a href="http://www.hp.com/go/support">http://www.hp.com/go/support</a> .

### Industry Standard Compliance

ACPI V2.0 Compliant  
PCI 2.3 Compliant  
PXE Support  
WOL Support  
IPMI 2.0 compliance

### Manageability

Standard Lights Out 100 IPMI 2.0 reporting  
Optional HP ProLiant G5 Lights-Out 100c Remote Management Card  
Standard HP ProLiant ML115 G5 Easy Set-Up CD

### Security

Power-on password  
Setup password  
USB lock

### Server Power Cords

6' country specific, lowline NEMA power cord.

### Power Supply

365 Watts

### System Fans

1 - Non-redundant system fan shipped standard  
1 - Non-redundant CPU heatsink fan shipped standard

**Operating Systems and Virtualization Software** [Microsoft Windows Server](#)  
[Red Hat Enterprise Linux \(RHEL\)](#)  
[SUSE Linux Enterprise Server \(SLES\)](#)

**NOTE:** For more information on HP's Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit our Support Matrix at: <http://www.hp.com/go/supportos> and our driver download page <http://www.hp.com/support/ML115G5>

### Standard Features

#### Factory Express Portfolio for Servers and Storage

HP Factory Express offers configuration, customization, integration and deployment services for HP servers and/or 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 MSAxxxx, VA7xxx, EVA, 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>.

#### HP Enterprise Configurator

The HP eConfigure Enterprise Configurator now provides factory default racking for our HP hardware portfolio. This approach is aligned with our strategic direction to meet the needs and expectations of our valued customers. If you require "custom" rack configuration, please contact HP's Customer Business Center or an Authorized Partner for assistance.

#### Service and Support

HP Care Pack Services provide total care and support expertise with committed response designed to meet your IT and business needs.

HP Care Pack services include coverage for the HP branded hardware options qualified for the server that are purchased at the same time or afterward and internal to the enclosure. It also includes the 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 and 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.

To fully capitalize on your HP ProLiant servers' capabilities requires a service partner who thoroughly understands your server technology and systems environment. HP Services, an industry leader in provision of multi vender support solutions provides a range of support services designed to meet the varying needs of business. Whether an SMB or large global corporation HP has a ProLiant server support offer to help you speedily deploy and maximize system uptime.

**Recommended Service** - Simplify ProLiant solution implementation, maintenance and management.

- **Support Service** - 3 Year, 9x5 Next Business Day coverage, excluding HP holidays only
- **Deployment Service** - Hardware Installation only

**Enhanced Service** - Optimize service level to increase IT performance and availability

- **Support Service** - 3 Year 13x5 Same Business Day, 4-Hour response coverage
- **Deployment Service** - Installation and Start-up only

Installation & Start-Up of a ProLiant server and Microsoft or Linux O/S per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays.

For a complete listing of service offerings and information visit:

<http://www.hp.com/services/proliantservices>

<http://www.hp.com/go/proliant/carepack>

### Models

**NOTE:** For the Standard Features shipped in the "Factory Integrated Models", please see the "Configuration Information - Factory Integrated Models" section.

### SATA Models

<b>HP ProLiant ML115 G5 Opteron 1354, NHP- SATA (1P) 570335-xx1</b>	<b>Processor</b>	(1) AMD Opteron™ 1354 (2.2 GHz, 75W, 2MB)
	<b>Cache Memory</b>	2MB Level 2
	<b>Memory</b>	1GB PC2-6400 ECC (DDR2-800MHz) (1 x 1GB)
	<b>Storage Controller</b>	HP Embedded 4 Port SATA Controller with Embedded RAID (0, 1, 5)
	<b>Hard Drive</b>	1x160GB NHP SATA HDD
	<b>Internal Storage</b>	Maximum 3.0TB (4 x 750GB) SATA
	<b>Optical Drive</b>	16x SATA DVD-ROM
	<b>Form Factor</b>	Micro ATX Tower (4U)

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<b>Country Code Key</b>	xx=01	Australia
	xx=03	UK
	xx=04	Germany
	xx=05	France
	xx=20	Brazil
	xx=37	AP
	xx=42	Euro
	xx=AA	PRC
	xx=29	Japan
	xx=AB	Taiwan
	xx=AD	Korea



### Configuration Information-Factory Integrated Models

**NOTE:** This section lists some of the steps required to configure a Factory Integrated Model. To ensure only valid configurations are ordered, HP recommends the use of an HP approved configurator. Contact your local sales representative for information on CTO product offerings and requirements.

**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:** FIO indicates that this option is a Factory Installable Option.

### Step 1: Base Configuration

<b>Models</b>	HP ProLiant ML115 G5 NHP CTO Chassis	457767-B21
	<b>Factory Integrated Models ship with:</b>	
	Embedded NC105i PCI Express Gigabit Ethernet Server Adapter	
	HP ProLiant ML115 G5 Easy Set-Up CD	
	Keyboard and Mouse	
	Power cord	
	Micro ATX Tower (4U)	
	<b>NOTE:</b> HP SATA Drive Models are limited to 3.0TB support.	
	<b>NOTE:</b> On SATA models with embedded RAID, setup instructions are located in the User Guide. CTO RAID set-up is not available. HP ProLiant ML100 Series Server User Guide:	
	<a href="http://h20000.www2.hp.com/bc/docs/support/SupportManual/c00260539/c00260539.pdf">http://h20000.www2.hp.com/bc/docs/support/SupportManual/c00260539/c00260539.pdf</a>	

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

<b>Processors</b>	<b>Quad-Core Processor</b>	
	AMD Opteron™ Processor Model 1354 (2.2 GHz, 75W, 2MB) Option Kit, FIO	490606-L21
	AMD Opteron™ Processor Model 1352 (2.1 GHz, 75W, 2MB) Option Kit, FIO	480294-L21
	<b>Dual-Core Processor</b>	
	AMD Opteron™ Processor Model 1222 (3.0 GHz, 95W, 2MB) Option Kit, FIO	480293-L21
	AMD Opteron™ Processor Model 1218 (2.6 GHz, 95W, 2MB) Option Kit, FIO	480292-L21
	AMD Athlon™ Processor Model 4450B (2.3 GHz, , 45W,1MB) Option Kit, FIO	480298-L21
	<b>Single-Core Processors</b>	
	AMD Athlon™ Processor Model 1640B (2.7 GHz, 45W, 512KB) Option Kit, FIO	480297-L21

<b>Memory</b>	2 GB Unbuffered PC2-6400 ECC DIMM (1 x 2 GB)	450260-B21
	1 GB Unbuffered PC2-6400 ECC DIMM (1 x 1 GB)	450259-B21
	512 MB Unbuffered PC2-6400 ECC DIMM (1 x 512 MB)	450258-B21

### Configuration Information-Factory Integrated Models

#### Hard Drives

**NOTE:** The components of a storage subsystem (e.g. the drive, the HBA/controller, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

##### SATA Non-Hot Plug Drives

HP 500GB 1.5G SATA 7.2K NHP 3.5" HDD, FIO	404469-B21
HP 250GB 1.5G SATA 7.2K NHP 3.5" HDD	411276-B21
HP 160GB 1.5G SATA 7.2K NHP 3.5" HDD	411275-B21

##### SATA Non-Hot Plug Midline (MDL) Drives

HP 750GB 3G SATA 7.2K NHP 3.5" MDL HDD	462595-B21
HP 500GB 3G SATA 7.2K NHP 3.5" MDL HDD	458941-B21
HP 250GB 3G SATA 7.2K NHP 3.5" MDL HDD	458939-B21

##### SATA Non-Hot Plug Entry (ETY) Drives

HP 160GB 3G SATA 7.2K NHP 3.5" Entry (ETY) HDD	458947-B21
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##### SAS Non-Hot Plug 3.5" Enterprise (ENT) Drives

400GB 3G NHP 10K 3.5" DP SAS ENT HDD	508232-B21
450GB 3G NHP 15K 3.5" DP SAS ENT HDD	454234-B21
300GB 3G NHP 15K 3.5" DP SAS ENT HDD	417950-B21
146GB 3G NHP 15K 3.5" DP SAS ENT HDD	417855-B21
300GB SAS 3.5" 15K NHP	431950-B21
146GB SAS 3.5" 15K NHP	432093-B21
72GB SAS 3.5" 15K NHP	432095-B21

#### Optical Drives

HP Half-Height SATA DVD ROM Kit	447326-B21
HP Half-Height SATA DVD-RW Optical Kit	447328-B21

### Step 3: Choose Additional Factory Integratable Options

**NOTE:** For additional options, please refer to the "Core Options and Additional Options" section below.

**NOTE:** Some options may not be factory integratable. Please contact your local sales representative for additional information.

#### Storage Controller

HP SC40Ge Host Bus Adapter, FIO	449176-B21
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**NOTE:** When using the SC40Ge with SATA Hard Drives, 1.5G SATA Hard Drives are required.

**NOTE:** Factory Integrated Only.

#### Operating Systems

##### Pre-install Microsoft Windows 2003 SBS Standard Edition

MS W2003 SBS R2 Std 1XX FIO Eng SW	432564-xx1
MS W2003 SBS R2 Prm 1XX FIO Eng SW	432566-xx1

### Configuration Information-Factory Integrated Models

<b>Country Code Key</b>	xx=01	Australia
	xx=03	UK
	xx=04	Germany
	xx=05	France
	xx=06	Italy
	xx=07	Spanish
	xx=20	Brazil
	xx=21	Hungarian
	xx=22	Czech
	xx=24	Polish
	xx=33	Dutch
	xx=37	AP
	xx=42	Euro
	xx=AA	PRC
	xx=29	Japan
	xx=AB	Taiwan
	xx=AD	Korea

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#### Step 4: Choose Additional Options for Factory Integration

**NOTE:** For additional options, please refer to the "Core Options and Additional Options" section below.

**NOTE:** Some options may not be factory integratable. Please contact your local sales representative for additional information

### Core Options

<b>Memory</b>	2 GB Unbuffered PC2-6400 ECC DIMM (1 x 2 GB)	450260-B21
	1 GB Unbuffered PC2-6400 ECC DIMM (1 x 1 GB)	450259-B21
	512 MB Unbuffered PC2-6400 ECC DIMM (1 x 512 MB)	450258-B21

<b>Optical Drives</b>	HP Half-Height SATA DVD ROM Kit	447326-B21
	HP Half-Height SATA DVD-RW Optical Kit	447328-B21

### Hard Drives

**NOTE:** The components of a storage subsystem (e.g. the drive, the HBA/controller, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

#### 3.5" SATA Non-Hot Plug Drives

HP 250GB 1.5G SATA 7.2K NHP 3.5" HDD	411276-B21
HP 160GB 1.5G SATA 7.2K NHP 3.5" HDD	411275-B21

**NOTE:** SATA drives have a 1 year warranty. Please see the QuickSpecs for Technical Specifications and additional information:

[http://h18000.www1.hp.com/products/quickspecs/11940\\_div/11940\\_div.html](http://h18000.www1.hp.com/products/quickspecs/11940_div/11940_div.html)  
(Worldwide)

#### SATA Non-Hot Plug Midline (MDL) Drives

HP 750GB 3G SATA 7.2K NHP 3.5" MDL HDD	462595-B21
HP 500GB 3G SATA 7.2K NHP 3.5" MDL HDD	458941-B21
HP 250GB 3G SATA 7.2K NHP 3.5" MDL HDD	458939-B21

#### SATA Non-Hot Plug Entry (ETY) Drives

HP 160GB 3G SATA 7.2K NHP 3.5" Entry (ENT) HDD	458947-B21
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**NOTE:** SATA drives have a 1 year warranty. Please see the QuickSpecs for Technical Specifications and additional information:

[http://h18000.www1.hp.com/products/quickspecs/13021\\_div/13021\\_div.html](http://h18000.www1.hp.com/products/quickspecs/13021_div/13021_div.html)  
(Worldwide)

#### SAS Non-Hot Plug 3.5" Enterprise (ENT) Drives

400GB 3G NHP 10K 3.5" DP SAS ENT HDD	508232-B21
450GB 3G NHP 15K 3.5" DP SAS ENT HDD	454234-B21
300GB 3G NHP 15K 3.5" DP SAS ENT HDD	417950-B21
146GB 3G NHP 15K 3.5" DP SAS ENT HDD	417855-B21
300GB SAS 3.5" 15K NHP	431950-B21
146GB SAS 3.5" 15K NHP	432093-B21
72GB SAS 3.5" 15K NHP	432095-B21

Please see QuickSpecs for Technical and additional information:

[http://h18000.www1.hp.com/products/quickspecs/12244\\_div/12244\\_div.html](http://h18000.www1.hp.com/products/quickspecs/12244_div/12244_div.html)  
(Worldwide)

### Communications

HP NC110T PCI Express Gigabit Server Adapter	434905-B21
HP NC360T PCI Express Dual Port Gigabit Server Adapter	412648-B21
HP NC373T PCI Express Multifunction Gigabit Server Adapter	394791-B21

**NOTE:** Please see the QuickSpecs for Technical Specifications and additional information: [www.hp.com/go/ProLiantNICs](http://www.hp.com/go/ProLiantNICs)

### Additional Options

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<b>Remote Management</b>	HP ProLiant 100 G5 Lights-Out 100c Remote Management Card <b>NOTE:</b> Supports HP ProLiant DL180 G5, ML110 G5, ML115 G5 and ML150 G5 servers, <b>NOTE:</b> For additional information on Lights-Out 100c Remote Management Card, please see the QuickSpecs at: <a href="http://h18000.www1.hp.com/products/quickspecs/12468_div/12468_div.html">http://h18000.www1.hp.com/products/quickspecs/12468_div/12468_div.html</a>	445513-B21
<hr/>		
<b>Storage Controllers</b>	<b>SAS HBA</b> HP SC44Ge Host Bus Adapter <b>NOTE:</b> When using the SC44Ge with SATA Hard Drives, 1.5G SATA Hard Drives are required. Transfer rate: 1.5 Gb/s SATA, 3 Gb/s SAS. <b>NOTE:</b> Supports RAID 0,1. <b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information: <a href="http://h18004.www1.hp.com/products/quickspecs/12617_div/12617_div.html">http://h18004.www1.hp.com/products/quickspecs/12617_div/12617_div.html</a> (SC44Ge HBA)	416096-B21
	<b>Smart Array E200 Controller</b> HP Smart Array E200/128 BBWC Controller <b>NOTE:</b> Supports RAID 0,1,1+0, 5/BBWC. <b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information: <a href="http://h18000.www1.hp.com/products/quickspecs/12460_div/12460_div.html">http://h18000.www1.hp.com/products/quickspecs/12460_div/12460_div.html</a> (Smart Array E200 Controller) <b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information: <a href="http://h18000.www1.hp.com/products/quickspecs/12460_div/12460_div.html">http://h18000.www1.hp.com/products/quickspecs/12460_div/12460_div.html</a> (Smart Array E200 Controller) <b>NOTE:</b> SAS Storage Controllers supports both SATA and SAS drives. <b>NOTE:</b> On SATA models with embedded RAID, setup instructions are located in the User Guide. CTO RAID set-up is not available. HP ProLiant ML100 Series Server User Guide: <a href="http://h20000.www2.hp.com/bc/docs/support/SupportManual/c00260539/c00260539.pdf">http://h20000.www2.hp.com/bc/docs/support/SupportManual/c00260539/c00260539.pdf</a>	411508-B21
	HP SAS/SATA 4-Port Cable <b>NOTE:</b> The purchase of a SAS Storage Controller requires the purchase of HP SAS/SATA 4-Port Cable (P/N 430479-B21)	430479-B21

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### Additional Options

#### Tape Drives

**NOTE:** Installation of SCSI internal tape drives in a ML115 G5 model requires SCSI controller kit (PN: 412911-B21).

**NOTE:** For complete listing of tape drive offerings see:  
<http://www.hp.com/products1/storage/compatibility/tapebackup/ISS/index.html>

#### USB Tape Drives

HP StorageWorks DAT 40 USB Internal Tape Drive (Carbonite) DW022A

HP StorageWorks DAT 72 USB Internal Tape Drive (Carbonite) DW026A

#### DAT SAS Tape Drives

HP StorageWorks DAT 160 SAS Internal Tape Drive Q1587A

#### DAT SCSI Tape Drives

HP StorageWorks DAT 40 SCSI Internal Tape Drive (Carbon) C5686C

HP StorageWorks DAT 72 SCSI Internal Tape Drive (Carbon) Q1522B

HP StorageWorks DAT 160 SCSI Internal Tape Drive (Carbon) Q1573A

#### LTO Ultrium SAS Tape Drives

HP StorageWorks LTO-2 Ultrium 448 SAS Internal Tape Drive DW085A

#### Disk-Based Backup

##### RDX Removable Disk Backup

HP StorageWorks RDX160 Internal Removable Disk Backup System AJ765A

**NOTE:** 160GB of Disk Storage.

HP StorageWorks RDX320 Internal Removable Disk Backup System AJ767A

**NOTE:** 320GB of Disk Storage.

**NOTE:** Please see the HP RDX Removable Disk Backup System QuickSpecs for additional information:

[http://h18000.www1.hp.com/products/quickspecs/13036\\_div/13036\\_div.html](http://h18000.www1.hp.com/products/quickspecs/13036_div/13036_div.html)

##### D2D Backup

HP StorageWorks D2D120 Backup System with Data Protector Express Software Kit EH924A

**NOTE:** 2TB of Disk Storage.

HP StorageWorks D2D130 Backup System with LTO-3 Ultrium 920 SAS Tape Drive EH952A

**NOTE:** 3TB of Disk Storage.

HP StorageWorks D2D2504i Backup System EJ002A

**NOTE:** Please see the HP D2D Backup Systems QuickSpecs for additional information: <http://www.hp.com/go/d2d>

### Additional Options

<b>Uninterruptible Power Systems - Tower</b>	<b>HP T1000 G3 UPS</b>	
	HP T1000 G3 UPS, INTL	AF449A
	HP T1000 G3 UPS, NA/JPN	AF448A
	<b>NOTE:</b> Please see QuickSpecs for Technical Specifications and additional information: <a href="http://h18000.www1.hp.com/products/quickspecs/12506_div/12506_div.html">http://h18000.www1.hp.com/products/quickspecs/12506_div/12506_div.html</a>	
	<b>HP T750 G2 UPS</b>	
	HP T750 G2 UPS, INTL	AF447A
	HP T750 G2 UPS, NA/JPN	AF446A
	<b>NOTE:</b> Please see QuickSpecs for Technical Specifications and additional information: <a href="http://h18000.www1.hp.com/products/quickspecs/12192_div/12192_div.html">http://h18000.www1.hp.com/products/quickspecs/12192_div/12192_div.html</a>	
	HP 1.83m 10A C13 CH Power Cord	AF565A
	HP 1.83m 10A C13 DK Power Cord	AF566A
HP 1.83m 10A C13 EU Power Cord	AF568A	
HP 1.83m 10A C13 IL Power Cord	AF564A	
HP 1.83m 10A C13 UK Power Cord	AF570A	
HP 1.83m C13 IT/CL Power Cord	AF571A	
HP 2m C13 JPN Power Cord	AF572A	
HP Power Cord 2.5m 10A C13-Argentina	AF558A	
HP Power Cord 1.83m 10A C13-China	AF557A	
HP Power Cord 1.83m 10A C13-UL DOM	AF556A	
<hr/>		
<b>Rack Kits</b>	Monitor/Utility Shelf	253449-B21
	HP ProLiant Rack Enabling Kit	417705-B21
<hr/>		
<b>HP KVM Switch Options</b>	HP 1x4 Console Switch	AF611A
	HP PS2 Server Console Cable, 6 foot, 2-Pack	AF612A
	HP USB Server Console Cable, 6 foot, 2-Pack	AF613A
	<b>NOTE:</b> Required for supporting USB peripherals. <b>NOTE:</b> For additional information regarding KVM Switches, Serial Console servers, rack mount monitors, keyboards and all related options please see the following URL: <a href="http://www.hp.com/go/kvm">http://www.hp.com/go/kvm</a> .	
<hr/>		
<b>USB Options</b>	HP 1GB USB 2.0 Floppy Drive Key	442085-B21
	1.44MB External USB Floppy Drive	DC141B
	HP USB 2-Button Optical Scroll Mouse	DC172B
	HP USB 04 Standard Keyboard	DT528A#xxx
	<b>NOTE:</b> When installing a Windows OS Environment and configuring the embedded SATA RAID, AHCI, or SAS controllers, installation of a driver from a diskette device is required. HP's 256MB or 1GB USB 2.0 floppy drive key (P/N: or 442085-B21) is required on the ML115 G5 to accomplish this operation. A USB drive key may not work to complete driver installation.	

### Service and Support, HP Care Pack, and Warranty Information

<b>Service and Support Offerings</b> (HP Care Pack Services)	<b>Extended Care - Minimum recommended service support level</b>	
	Next Business Day On-Site Service, 9-Hour x 5-Day Coverage, 3 Years, Electronic	U4433E
	<b>Committed Care - Cost-effective service options designed to extend HP Services committed response and guaranteed fix times, designed to speed problem resolution.</b>	
	Same Business Day On-Site Server, 13-Hour x 5-Day Coverage, 3 Years, Electronic	U4434E
	<b>Committed Response - Optimum service level to increase IT Performance and availability</b>	
	4-Hour On-Site Service - 24-Hour x 7-Day Coverage, 3 Years, Electronic	U4435E
	<b>Deployment Services - HP Installation and Start Up services designed to take time, risk, and worry out of the deployment of ProLiant servers - and free customers people to focus on what they do best, their business.</b>	
	Hardware Installation, Electronic (install services)	U4444E
	<b>NOTE:</b> For more information, customer/resellers can contact <a href="http://www.hp.com/services/carepack">http://www.hp.com/services/carepack</a> .	



### Memory

#### HP ProLiant ML115 G5 Models

**NOTE:** Memory configurations listed do not apply to "Factory Integrated Models".

#### Standard Memory

512 MB of PC2-6400 DDR2 SDRAM running at 800MHz with ECC capabilities memory installed (1 x 512 MB SDRAM DIMM)

1 GB of PC2-6400 DDR2 SDRAM running at 800MHz with ECC capabilities memory installed (1x 1 GB SDRAM DIMM)

#### Standard Memory Plus Optional Memory

Up to 5 GB memory is available with the optional installation of PC2-6400 un-buffered ECC DDR2 SDRAM DIMM Memory kits.

#### Standard Memory Replaced with Optional Memory

Up to 8 GB of memory is available with the removal of the standard 512 MB/1GB of memory and the optional installation of 4 x 2 GB PC2-6400 un-buffered ECC DDR2 SDRAM DIMM Memory kits.

**NOTE:** The below chart does not represent all possible memory configurations.

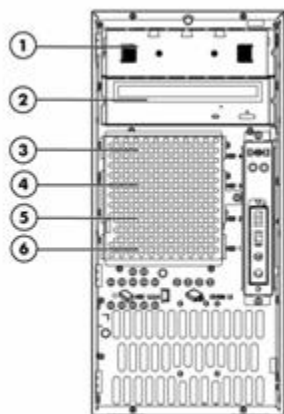
**NOTE:** For best performance, it is recommended that customers install memory in identical pairs. Slots 1A and 2A are interleaving pair. Slots 3B and 4B are interleaving pair.

Memory		Slot			
		1A	2A	3B	4B
<b>Standard</b>	<b>512 MB</b>	<b>512 MB</b>	<b>Empty</b>	<b>Empty</b>	<b>512 MB</b>
<b>Optional</b>	<b>5 GB</b>	<b>512 MB</b>	<b>512 MB</b>	<b>2 GB</b>	<b>2 GB</b>
<b>Maximum</b>	<b>8 GB</b>	<b>2 GB</b>	<b>2 GB</b>	<b>2 GB</b>	<b>2 GB</b>

#### Following are memory options available from HP:

2 GB Unbuffered PC2-6400 ECC DIMM (1 x 2 GB)	450260-B21
1 GB Unbuffered PC2-6400 ECC DIMM (1 x 1 GB)	450259-B21
512 MB Unbuffered PC2-6400 ECC DIMM (1 x 512 MB)	450258-B21

### Storage



- 1 Removable Media Bays (1.6" each)
- 2 DVD-ROM
- 3, 4, 5, 6 Four (4) Non-Hot Plug Drive Bays

### Drive Support

	Quantity Supported	Position Supported	Controller
<b>Removable Media</b>			
DVD Drive	2	1 or 2	Integrated SATA
DVD-RW Drive	2	1 or 2	Integrated SATA

#### Hard Drives (SATA Models only)

##### 3.5" SATA Non-Hot Plug Drives

**NOTE:** The components of a storage subsystem (e.g. the drive, the HBA/controller, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

	Quantity Supported	Quantity Supported	Controller
500GB 1.5G SATA 7.2K	Up to 4	3-6	4 Port SATA controller with Embedded RAID on Motherboard (0,1,5)
250GB 1.5G SATA 7.2K			
160GB 1.5G SATA 7.2K			

##### 3.5" SATA Non-Hot Plug Midline (MDL) Drives

	Quantity Supported	Quantity Supported	Controller
750GB 3G SATA 7.2K	Up to 4	3-6	4 Port SATA controller with Embedded RAID on Motherboard (0,1,5)
500GB 3G SATA 7.2K			
250GB 3G SATA 7.2K			

##### 3.5" SATA Non-Hot Plug Entry (ETY) Drives

	Quantity Supported	Quantity Supported	Controller
160GB 3G SATA 7.2K	Up to 4	3-6	4 Port SATA controller with Embedded RAID on Motherboard (0,1,5)

#### Hard Drives (SAS Models only)

##### SAS Non-Hot Plug 3.5" Enterprise (ENT) Drives

### Storage

	Quantity Supported	Position Supported	Controller
400GB 3G SAS 10K 450GB 3G SAS 15K 300GB 3G SAS 15K 146GB 3G SAS 15K	Up to 4	3-6	HP 8 Internal Port SAS HBA with RAID (0,1)

### Maximum Storage Capacity

Internal	SATA	3.0TB (4 x 750GB)
	SAS	1.8TB (4x 450GB)

### Tape Drives and Disk-Based Backup

**NOTE:** Installation of SCSI tape drives in a ML115 G5 model requires SCSI controller kit (PN: 412911-B21).

**NOTE:** For a complete listing of compatible tape and disk-based backup offerings, please visit: [www.hp.com/go/connect](http://www.hp.com/go/connect).

	Position Supported	Controller	Controller/HBA Option Kit Part Number
<b>Internal USB Tape Drives</b> DAT 40 USB DAT 72 USB DAT 160 USB	2	USB 2.0 port	N/A
<b>External USB Tape Drives</b> DAT 40 USB DAT 72 USB DAT 160 USB	External	USB 2.0 port	N/A
<b>Internal SAS Tape Drives</b> DAT 160 SAS LTO-2 Ultrium 448 SAS LTO-3 Ultrium 920 SAS	2	HP SC44Ge Host Bus Adapter	416096-B21
<b>External SAS Tape Drives</b> DAT 160 SAS LTO-2 Ultrium 448 SAS LTO-3 Ultrium 920 SAS	External	HP SC44Ge Host Bus Adapter	416096-B21
<b>Internal SCSI Tape Drives</b> DAT40 DAT 72 DAT 160	2	HP SC11Xe Host Bus Adapter	412911-B21
<b>External SCSI Tape Drives</b> DAT40 DAT 72 DAT 160	External	HP SC11Xe Host Bus Adapter	412911-B21
<b>HP StorageWorks RDX Removable Disk Backup System</b> RDX160 RDX320	2	USB 2.0 Port	N/A

## Storage

<b>HP StorageWorks D2D Backup System</b> D2D120 D2D130	External	Embedded Network Controller	N/A
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### Power Specifications

**Part Number** 457694-001  
**Operational Input Voltage Range** (Vrms) 100 to 127 and 200 to 240 V auto ranging  
**Frequency Range** (Nominal) (Hz) 50 to 60 Hz

Nominal Input Voltage (Vrms)	100	115	208	220	230	240
Max Rated Output Wattage Rating	N/A	365	N/A	N/A	365	N/A
Nominal Input Current (A rms)	N/A	6	N/A	N/A	3	N/A
Max Rated Input Wattage Rating (Watts)	N/A	553	N/A	N/A	517	N/A
Max. Rated VA (Volt-Amp)	N/A	N/A	N/A	N/A	N/A	N/A
Efficiency (%)	N/A	>65%	N/A	N/A	>65%	N/A
Power Factor	N/A	N/A	N/A	N/A	N/A	N/A
Leakage Current (mA)	0.5mA (at 60HZ)	N/A	N/A	N/A	N/A	N/A
Maximum Inrush Current (A peak)	N/A	No component was damaged and input fuse shall not blow	N/A	N/A	No component was damaged and input fuse shall not blow	N/A
Maximum Inrush Current duration (mS)	N/A	N/A	N/A	N/A	N/A	N/A

### System Specifications

	<b>Power**</b>
<b>HP ProLiant ML115 G5 Fully Configured</b>	(see**)
Fully Loaded System output Wattage (W)	365W
Fully Loaded System Input Current (A rms)	6A @ 115V, 3A @ 230V
Fully Loaded System Thermal (BTU-Hr)	1885 BTU
Fully Loaded System VA (Volt-Amp)	N/A
System Leakage with all power supplies loaded (mA)	N/A
System Inrush Current with all power supplies loaded (A)	N/A
Power cord requirements	Nema 5-15P to IEC320-C13 IEC320-C13 to IEC320-C14 <b>**Power shown is for a fully configured system consisting of (1) CPU, (4) double-sided DIMMs, (4) HDDs, (1) DVD-ROM, (4) PCI cards, and (1) power supply.</b>
<b>Power Cords (13 Cord Sets)</b>	<b>Power Cord Part Number</b>
<b>Country</b>	
APD	100614-009, 100613-008, 139867-005, 397138-002 (India)
Brazil	285052-001
Australia	100661-001
Euro	100614-009
France	100614-009
Germany	100614-009
Japan	139867-005
PRC	286496-001
UK	100613-008
US	121565-001

### Technical Specifications

<b>System Unit</b>	<b>Dimensions</b> (HxWxD) (with feet)	14.5 x 6.9 x 16.2 in (36.7x 17.5 x 41.2 cm)							
	<b>Weight</b> (approximate)	<table border="0"> <tr> <td>Maximum</td> <td>31.35 lb (14.22 kg)</td> </tr> <tr> <td colspan="2">(all hard drives, power supplies, and processors installed)</td> </tr> <tr> <td>Minimum</td> <td>25.75 lb (11.68 kg)</td> </tr> <tr> <td colspan="2">(one hard drive, power supply, and processor installed)</td> </tr> </table>	Maximum	31.35 lb (14.22 kg)	(all hard drives, power supplies, and processors installed)		Minimum	25.75 lb (11.68 kg)	(one hard drive, power supply, and processor installed)
Maximum	31.35 lb (14.22 kg)								
(all hard drives, power supplies, and processors installed)									
Minimum	25.75 lb (11.68 kg)								
(one hard drive, power supply, and processor installed)									
<b>Input Requirements</b> (per power supply)	Rated Line Voltage	90 — 132 VAC, 180 — 264 VAC							
	Rated Input Current	6 A (at 110 VAC), 3 A (at 200 VAC)							
	Rated Input Frequency	47 to 63 Hz							
	Rated Input Power	365 W (at 100 VAC), 365 W (at 200 VAC)							
<b>BTU Rating</b>	Maximum	1885 BTU/hr (at 100 VAC), U/hr (at 200 VAC)							
<b>Power Specifications</b>	To review typical system power ratings use the Power Advisor which is available via the online tool located at URL: <a href="http://www.hp.com/go/proliant-energy-efficiency">www.hp.com/go/proliant-energy-efficiency</a>								
<b>Power Supply Output</b> (per power supply)	Rated Steady-State Power	365 W (at 100 VAC), 365 W (at 200 VAC)							
	Maximum Peak Power	385 W (at 100 VAC), 385 W (at 200 VAC)							
<b>System Inlet Temperature</b>	Operating	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 10°C/hr (18°F/hr). The upper limit may be limited by the type and number of options installed. System performance may be reduced if operating with a fan fault or above 30°C (86°F).							
	Non-operating	10 to 90% relative humidity (Rh), 28°C 5 to 95% relative humidity (Rh), 38.7°C							
<b>Altitude</b>	Operating	3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).							
	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).							
<b>Acoustic Noise</b> (Fully Loaded)	Idle								
	L WAd	4.74 BELS							
	L pAm	30.0 dBA							
	Operating								
	L WAd	4.99 BELS							
	L pAm	32.5 dBA							

### Technical Specifications

<b>Emissions Classification (EMC)</b>	FCC Rating Normative Standards	Class B CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1
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**NOTE:** Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.

<b>HP 160GB 3.0G SATA 7.2K NHP 3.5" HDD</b> 458947-B21	<b>160GB 7,200 rpm</b>	<b>Capacity</b>	160,041 MB	
		<b>Height</b>	1.0 in. (26.1 mm)	
		<b>Maximum drive dimension</b>		
		<b>Width</b>	4.0 in. (101.6 mm)	
		<b>Depth</b>	5.787 in (147.0 mm)	
		<b>Maximum drive dimension</b>		
		<b>Interface</b>	Serial ATA	
		<b>Transfer rate synchronous (maximum)</b>	3Gb/s	
		<b>Native Command Queuing</b>	N/A	
		<b>Seek time</b> (typical reads, including settling)	Single track	2.0 ms
			Average	<11 ms
Full-stroke	23.0 ms			
<b>Physical Configuration</b>	Rotational speed	7,200 rpm		
	Bytes/Sector	512		
	Logical Blocks	312,581,808		
<b>Operating Temperature</b>		41° to 131° F (5° to 55° C)		

<b>16X Max SATA DVD-ROM Drive</b> 447326-B21	<b>Disk</b>	Applicable Disk	CD-ROM, CD-XA, CD-DA (Mode 1, Mode 2, Form 1 and 2) Photo CD (Single and Multi-session) CD-R, CD-RW Mixed Mode (Audio and Data combined) DVD-ROM DVD-R/RW, DVD+R/RW CD-R	
		Capacity	540MB (Mode 1, 12 cm) 650MB (Mode 2, 12 cm) 4.7 GB, 8.5 GB DVD	
		<b>Block Size</b>	Mode 1	2,048 bytes (CD & DVD) 1024 bytes
			Mode 2	2,340 bytes, 2,336 bytes, 1024 bytes
			CD-DA	2,352 bytes
			CD-XA	2,328 bytes
			<b>Interface</b>	SATA



### Technical Specifications

<b>Access Times (typical)</b>	Random	<100 ms
	Full-Stroke	<150 ms
<b>Data Transfer Rate</b>	Sustained	3000 to 7200 KB/s (20X to 48X)
	Burst	150 KBps to 7,200 KBps
	Bus Rate	1.5Gbps
<b>Cache Buffer</b>	128 KB	
<b>Start-up Time (typical)</b>	< 7 seconds	
<b>Stop Time</b>	< 4 seconds	
<b>Laser Parameters</b>	Type	Semiconductor Laser GaAlAs
	Wave Length	780 ± 25 nm
<b>Operating Conditions</b>	Temperature	41° to 122° F (5° to 50° C)
	Humidity	10% to 90%
<b>Dimensions</b>	(HxWxD, maximum)	1.63 x 5.75 x 7.87 in (41.3 x 146 x 195 mm)
	Weight	2.64 lb (1.2 kg)

<b>4 port Embedded SATA controller</b>	<b>SATA Protocol</b>	SATA 2, 3Gb/s	
	<b>SATA Ports</b>	4 internal	
	<b>Port transfer rate</b>	1.5 Gb/s total	
	<b>Maximum Capacity</b>	up to 3.0TB (4 x 750GB non-hot plug SATA HDD)	
	<b>RAID Levels Supported</b>	RAID 1+0 (Striping & Mirroring)	
		RAID 1 (Mirroring)	
		RAID 0 (Striping)	
RAID 5 (Striping with parity)			
<b>Logical RAID Volumes Supported</b>	<b>NOTE:</b> On SATA models with embedded RAID, setup instructions are located in User Guide, CTO RAID is set-up is not available. HP ProLiant 100 Series Server User Guide: <a href="http://h20000.www2.hp.com/bc/docs/support/SupportManual/c00260539/c00260539.pdf">http://h20000.www2.hp.com/bc/docs/support/SupportManual/c00260539/c00260539.pdf</a>		

<b>Embedded NC105i Gigabit Server Adapter</b>	<b>PCI Network Interface Compatibility</b>	10Base-T/100Base-TX/1000Base-TX	
		IEEE 802.3 10Base-T	
		IEEE 802.3ab 1000Base-T	
		IEEE 802.3u 100Base-TX	
	<b>Data Transfer Method</b>	Single lane (x1), 100MHz PCI Express Reference Clock	
<b>Network Transfer Rate</b>	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	
	1000Base-TX (Half and Full-Duplex)	2000Mb/s	
<b>Connector</b>	RJ-45 connector		
<b>Cable Support</b>	10Base-T	Categories 3, 4 or 5 UTP; up to 328 ft (100 m)	
	10/100/1000Base-TX	Category 5 UTP; up to 328 ft (100 m)	

**Environment-friendly Products and Approach Management and**

Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information,



### Technical Specifications

#### Recycling

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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For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less.