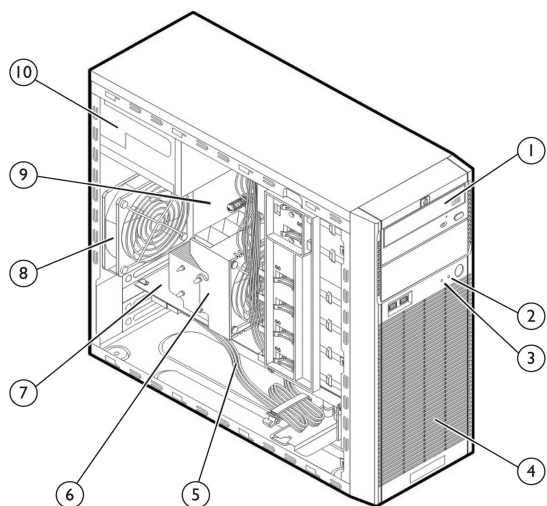
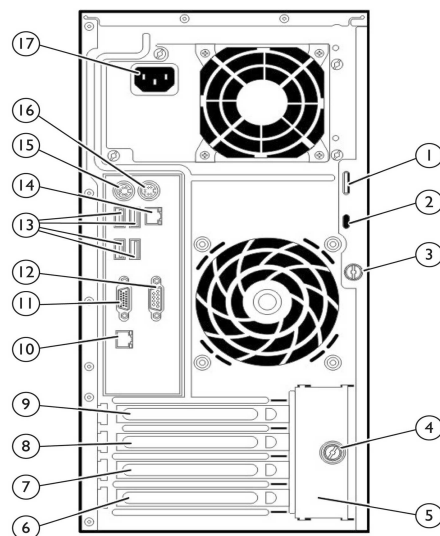


### Overview



#### Front View:

1. DVD-ROM Drive
2. Power LED
3. Drive Activity LED
4. Front Bezel
5. SAS Cable (SAS model only)
6. CPU Heatsink
7. Hard Drive Controller Card (Optional)
8. System Fan
9. System Board
10. 300W Power Supply



#### Rear View:

1. Kensington lock notch
2. Cable lock provision notch
3. Access panel thumbscrew
4. Expansion slot cover retainer thumb screw
5. Expansion slot cover
6. Expansion slot 1
7. Expansion slot 2
8. Expansion slot 3
9. Expansion slot 4
10. Management NIC port (RJ-45)
11. Video port
12. Serial port
13. USB ports
14. Embedded NIC port (RJ-45)
15. PS/2 keyboard port
16. PS/2 mouse port
17. Power supply cable socket

### What's New

- Support for Intel® i3-550 FIO Processor Kit and Intel® Xeon® X3470 FIO Processor Kit
- Support for 2TB non hot-plug SATA drive

### Standard Features

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

#### Processor

One of the following depending on Model

#### Quad-Core Processors

Intel® Xeon® X3450 (2.66GHz/4-core/8MB/95W, 1333, HT, Turbo 1/1/4/4) Processor

Intel® Xeon® X3430 (2.40GHz/4-core/8MB/95W, 1333, Turbo 1/1/2/3) Processor

#### Dual-Core Processors

Intel® Core™ i3-550 (3.20GHz/2-core/4MB/73W, 1333, HT) Processor

**NOTE:** Available through Configure To Order only. See Factory Integration Models section for more details.

Intel® Core™ i3-540 (3.06GHz/2-core/4MB/73W, 1333, HT) Processor

**NOTE:** Available through Configure To Order only. See Factory Integration Models section for more details.

Intel® Core™ i3-530 (2.93GHz/2-core/4MB/73W, 1333, HT) Processor

**NOTE:** Available through Configure To Order only. See Factory Integration Models section for more details.

Intel® Pentium® G6950 (2.80GHz/2-core/3MB/73W, 1066) Processor

Intel® Celeron® G1101 (2.26GHz/2-core/2MB/73W, 1066) Processor

**NOTE:** Available through Configure To Order only. See Factory Integration Models section for more details.

**NOTE:** HT indicates that the processor model supports Intel® Hyper-Threading Technology.

**NOTE:** Turbo indicates the maximum potential frequency increment when using Intel® Turbo Boost Technology, with 4, 3, 2, and 1 cores active.

**NOTE:** DDR3 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

#### Cache Memory

One of the following depending on Model

Integrated 8MB Intel® Smart Cache (Xeon 3400 series)

Integrated 4MB Intel® Smart Cache (Core i3 series)

Integrated 3MB Intel® Smart Cache (Pentium G6950)

Integrated 2MB Intel® Smart Cache (Celeron G1101)

#### Chipset

Intel® 3420 chipset

**NOTE:** For more information regarding Intel chipsets, please see the following URL:

<http://www.intel.com/products/server/chipsets/>

#### Memory Protection

ECC

#### Memory

Type PC3-10600E unbuffered DDR3 ECC up to 1333MHz

DIMM Slots Total 4 DIMM slots

Standard 2GB (1x2GB) or 4GB (2x2GB)

Maximum 16GB



### Standard Features

**Network Controller** Embedded NC107i PCI Express Gigabit Ethernet Server Adapter

Expansion Slots #	Technology	Bus Width***	Connector Width	Bus Number*	Device Number**	Form Factor	Notes
1	PCIe	X1	X4	16	0	Full height, half length slot	Gen.1, NHP
2	PCI	32 bit	N/A	48	0	Full height & Full-length slot	33MHz/3.3V, NHP
3	PCIe	X4	X8	32	0	Full height & Full-length slot	Gen.1, NHP
4	PCIe	X16	X16	1	0	Full height & Full-length slot	Gen.2, NHP

\*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.

### Storage Controller

HP Embedded Smart Array B110i SATA RAID Controller (RAID 0/1/10)

**NOTE:** Supports up to four (4) 3.0Gb/s SATA hard disk drives only

**NOTE:** For set up instructions, please refer to the HP ProLiant ML100 series server user guide at: <http://bizsupport1.austin.hp.com/bc/docs/support/SupportManual/c01708878/c01708878.pdf>

**NOTE:** For general information about HP Smart Array B110i SATA RAID Controller, please go to: <http://h18004.www1.hp.com/products/servers/proliantstorage/arraycontrollers/smartarrayb110i/index.html>

**NOTE:** HP Smart Array B110i does not support greater than 2TB hard drive

### Internal Storage Devices

#### Optical Drive

HP Half-Height SATA DVD-ROM Optical Drive ships standard

#### Hard Drives

1x160 GB NHP SATA 7200 rpm Drive (Entry Model)

One of the following depending on Model

1x250 GB NHP SATA 7200 rpm Drive (Base Model)

2x250 GB NHP SATA 7200 rpm Drive (Performance Model)

### Maximum Internal Storage

One of the following depending on Model

#### Non-Hot Plug SAS

2.4TB (4 x 600GB) 3.5" SAS

#### Non-Hot Plug SATA

8.0TB (4 x 2TB) 3.5" SATA



### Standard Features

Interfaces	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> 1 Dedicated USB port available for internal USB tape connectivity	
<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 (10/100/1000 bits/s)	
Remote Management	HP Lights-Out 100i	

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Industry Standard Compliance	ACPI V3.0a Compliant
	PCI 2.3 Compliant
	PXE Support
	WOL Support
	IPMI 2.0 compliance
	DCMI 1.0
	Microsoft® Logo certifications
	Red Hat Enterprise Linux Logo certifications
SUSE Linux Enterprise Server Logo certifications	
USB 2.0	

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Server Power Cords	6' lowline NEMA power cord.
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Power Supply	300 Watts Non-Hot Plug, Non redundant Power Supply
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System Fans	One (1) - Non-redundant system fan ships standard
	One (1) - Non-redundant CPU heatsink fan ships standard

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Operating Systems and Virtualization Software Support for ProLiant Servers	<a href="#">Microsoft Windows Server</a>
	<a href="#">Red Hat Enterprise Linux (RHEL)</a>
	<a href="#">SUSE Linux Enterprise Server (SLES)</a>
	<b>NOTE:</b> 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: <a href="http://www.hp.com/go/ossupport">http://www.hp.com/go/ossupport</a> and our driver download page <a href="http://www.hp.com/support/ML110G6">http://www.hp.com/support/ML110G6</a>



### Standard Features

Graphics	64MB shared supporting all display resolutions up to 1600 x 1200 16bpp @ 75Hz <b>NOTE:</b> 8MB is dedicated to video memory.
Form Factor	Micro ATX Tower (4U) <b>NOTE:</b> Rack mounting available via HP Tower to Rack Conversion Tray, Universal Kit. Please see the options section in this QuickSpecs.
Embedded Manageability	<b>HP LO100i Advanced</b> HP LO100i Lights-Out 100 with Optional LO100i Advanced Licenses for Virtual KVM and Virtual Media.  Features: <ul style="list-style-type: none"><li>● Embedded IPMI standard reporting</li><li>● System event log access</li><li>● Remote Serial console (serial redirection)</li><li>● Browser, Telnet access</li><li>● SMASH-CLP compliant</li><li>● DCMI 1.0 compliant</li><li>● IPMI 2.0 compliant</li><li>● Secure Socket Layer Encryption</li><li>● Secure Shell Encryption</li><li>● Virtual media (Floppy, CD, DVD, ISO image, USB 2.0) with Advanced License</li><li>● Virtual KVM with Advanced License</li></ul> <b>NOTE:</b> For more information, please refer to the QuickSpecs for the LO100i found at: <a href="http://www.hp.com/go/lo100">www.hp.com/go/lo100</a>

Core Infrastructure Management	HP ProLiant ML110 G6 Easy Set-up CD  The HP ProLiant Easy Set-up CD optimizes single-server setup, providing a simple way to deploy reliable and consistent server configurations. The HP ProLiant 100 Series Easy Set-up CD ships standard with the ML110 G6.  It 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 CD assists 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: <ul style="list-style-type: none"><li>● An easy-to-use, intuitive graphical interface that prepares your system for the OS installation process.</li><li>● Integration of key server software drivers with assisted installation.</li><li>● Dependency and validity checks to ensure that all supported ProLiant software can be installed.</li></ul> <b>NOTE:</b> For the latest information about other related software; please visit the HP Insight Control Management Software Portfolio at: <a href="http://h18004.www1.hp.com/products/servers/management/">http://h18004.www1.hp.com/products/servers/management/</a> and the HP
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### Standard Features

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ProLiant Easy Set-up CD Web site at: [www.hp.com/servers/easyssetup](http://www.hp.com/servers/easyssetup)

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<b>Manageability</b>	<p>HP Integrated Lights-Out 100i with optional LO100i Advanced Licenses for Virtual KVM and Virtual Media</p> <p>Embedded Lights Out 100 IPMI 2.0 standard reporting</p> <p>Standard HP ProLiant ML110 G6 Easy Set-Up CD</p> <p>Array Configuration Utility (ACU)</p> <p>Array Diagnostics Utility (ADU)</p> <p>HP Insight Diagnostics</p> <p>HP Insight Management Agents and Insight Management Providers for Systems Insight Manager (SIM) Integration</p>
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<b>Security</b>	<p>Power-on password</p> <p>Setup password</p> <p>Secure Sockets Layer (SSL)</p> <p>Secure Shell (SSH)</p>
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<b>Warranty</b>	<p>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 are 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. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.</p> <p><b>NOTE:</b> 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 Brazil only). 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: <a href="http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html">http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html</a></p>
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### Optional 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 MSAxxx, 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>

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#### 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. <http://www.hp.com/products/configurator>.



### Service and Support

#### Service and Support

##### **HP Technology Services for Industry Standard Servers and BladeSystem**

Capitalizing on HP ProLiant server and HP BladeSystem capabilities requires a service partner who understands your increasingly complex business technology environment. That's why it makes sense to team up with the people who know HP infrastructure hardware and software best - the experienced professionals at HP Services.

##### **What HP ProLiant and BladeSystem Services can do for you**

HP ProLiant and BladeSystem Services can help you design, deploy, test, integrate, support, and manage IT and infrastructure solutions. This way, HP proposes services solutions that include more than just uplift of base warranty. You can get the support you need by choosing from one of a number of service packaged solutions we have designed to address wider set of customer support needs.

HP Technology Services meets business challenges with services offered in three packages:

##### **Optimized Care Package, Standard Care Package, and Basic Care Package**

Available for each product group. Such packaged solutions enable customers to optimize technology operations, minimize risk and drive better business outcomes with easy-to-buy, easy-to-use scalable support packages for servers, storage, networking and software.

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#### Optimized Care Package Supports maintaining servers at optimum performance availability

##### **HP ProLiant Server Hardware Installation**

Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner.  
<http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf>

##### **3-Year HP 6 hour Hardware Support Onsite Call-to-Repair Service**

Provides an IT manager with a team of support specialists who will quickly begin troubleshooting the system to help return the hardware to operating condition within 6 hours of the initial service request to the HP Global Solution Center.

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EN.pdf>

**Additional Services:** Software OS (Microsoft, Linux (SUSE/Red Hat) Installation and Start Up and Software Support) plus Microsoft or Linux education courses +30 Proactive Select Credits, Factory Express.



### Service and Support

**Standard Care Package** Package that maintains high level of server availability

**HP ProLiant Server Hardware Installation**

Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner. <http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf>

**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>

**Additional Services:** Software OS (Microsoft, Linux (SUSE/Red Hat) Installation and Start Up and Software Support); + 10 Proactive Select Credits, Factory Express.

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**Basic Care Package** Delivers minimum recommended support service level

**HP ProLiant Server Hardware Installation**

Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner <http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf>

**3-Year HP 13x5 4 hour Response, Hardware Support Onsite Service**

Delivers increased equipment availability and productivity with rapid remote support and onsite response for your HP server and storage hardware <http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EEE.pdf>

**Additional Services:** Software OS (Microsoft, Linux (SUSE/Red Hat) Installation and Start Up and Software Support), Factory Express.

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**Insight Remote Support** The packages include HP Insight Remote Support that uses proven technology to deliver secure, reliable 24x7 remote monitoring, diagnoses, and problem resolution. It is available at no additional cost to all warranty, HP Care Pack Service, and service agreement customers.

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**For more information** To learn more on HP ProLiant servers and HP BladeSystem servers, please contact your HP sales representative or HP Authorized Channel Partner. Or visit: <http://www.hp.com/services/proliant>



### Pre-configured Models

#### SATA Models

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

**NOTE:** Pre-configured models ship with the configurations below. Options can be selected from the Core or Additional options section of this QuickSpecs.

**NOTE:** HP does not allow factory integration of options into pre-configured models. Any additional options purchased will be shipped separately.

**NOTE:** If you desire a custom configuration please see "Configuration Information - Factory Integrated Models" section of this QuickSpecs.

**NOTE:** HP NHP Internal SAS/SATA 4 port cable kit (487734-B21) is required when Smart Array Controller is ordered with a BTO configuration

**NOTE:** For general information about HP Smart Array B110i SATA RAID Controller, please visit:

<http://h18004.www1.hp.com/products/servers/proliantstorage/arraycontrollers/smartarrayb110i/index.html>

<b>Entry Model</b>	<b>Processor</b>	(1) Intel® Pentium® processor G6950 (2.80GHz, 73W, 3MB, 1066)
<b>HP ProLiant ML110 G6 G6950 1P 2GB-U Non- hot Plug 160GB SATA LFF 300W PS Server 506666-001</b>	<b>Cache Memory</b>	3MB Intel® Smart Cache
	<b>Memory</b>	2GB (1x2GB) PC3-10600E DDR3 UB ECC <b>NOTE: Total 4 DIMM slots.</b>
	<b>Network Controller</b>	Embedded NC107i PCI Express Gigabit Ethernet Server Adapter
	<b>Storage Controller</b>	HP Embedded Smart Array B110i SATA RAID Controller (RAID 0/1/10) (4 ports for HDD)
	<b>Hard Drive</b>	1 x 160GB Non-hot-plug LFF SATA
	<b>Internal Storage</b>	8.0TB (4 x 2.0TB) Non-hot plug LFF SATA (Maximum)
	<b>Optical Drive</b>	HP Half-Height 16x SATA DVD-ROM
	<b>Power Supply</b>	300W Non-Hot Plug, Non-Redundant Power Supply
	<b>Fans</b>	One (1) - Non-redundant system fan ships standard One (1) - Non-redundant CPU heatsink fan ships standard
	<b>Management</b>	Integrated HP ProLiant 100 G6 Lights Out 100i Remote Management
	<b>Form Factor</b>	Micro ATX Tower (4U)
	<b>Warranty</b>	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 Brazil only).



### Pre-configured Models

<b>Base Model</b>	<b>Processor</b>	(1) Intel® Xeon® processor X3430 (2.40GHz, 95W, 8MB, 1333, Turbo 1/1/2/3)
<b>HP ProLiant ML110 G6 X3430 1P 2GB-U Non-hot Plug 250GB SATA LFF 300W PS Base Svr 506667-001</b>	<b>Cache Memory</b>	8MB Intel® Smart Cache
	<b>Memory</b>	2GB (1x2GB) PC3-10600E DDR3 UB ECC <b>NOTE: Total 4 DIMM slots.</b>
	<b>Network Controller</b>	Embedded NC107i PCI Express Gigabit Ethernet Server Adapter
	<b>Storage Controller</b>	HP Embedded Smart Array B110i SATA RAID Controller (RAID 0/1/10) (4 ports for HDD)
	<b>Hard Drive</b>	1 x 250GB Non-hot-plug LFF SATA
	<b>Internal Storage</b>	8.0TB (4 x 2.0TB) Non-hot plug LFF SATA (Maximum)
	<b>Optical Drive</b>	HP Half-Height 16x SATA DVD-ROM
	<b>Power Supply</b>	300W Non-Hot Plug, Non-Redundant Power Supply
	<b>Fans</b>	One (1) - Non-redundant system fan ships standard One (1) - Non-redundant CPU heatsink fan ships standard
	<b>Management</b>	Integrated HP ProLiant 100 G6 Lights Out 100i Remote Management
	<b>Form Factor</b>	Micro ATX Tower (4U)
	<b>Warranty</b>	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 Brazil only).
	<b>Performance model</b>	<b>Processor</b>
<b>HP ProLiant ML110 G6 X3450 1P 4GB-U Non-hot Plug 500GB SATA LFF 300W PS Server 506668-001</b>	<b>Cache Memory</b>	8MB Intel® Smart Cache
	<b>Memory</b>	4GB (2x2GB) PC3-10600E DDR3 UB ECC <b>NOTE: Total 4 DIMM slots.</b>
	<b>Network Controller</b>	Embedded NC107i PCI Express Gigabit Ethernet Server Adapter
	<b>Storage Controller</b>	HP Embedded Smart Array B110i SATA RAID Controller (RAID 0/1/10) (4 ports for HDD)
	<b>Hard Drive</b>	2 x 250GB Non-hot-plug LFF SATA
	<b>Internal Storage</b>	8.0TB (4 x 2.0TB) Non-hot plug LFF SATA (Maximum)
	<b>Optical Drive</b>	HP Half-Height 16x SATA DVD-ROM
	<b>Power Supply</b>	300W Non-Hot Plug, Non-Redundant Power Supply
	<b>Fans</b>	One (1) - Non-redundant system fan ships standard One (1) - Non-redundant CPU heatsink fan ships standard
	<b>Management</b>	Integrated HP ProLiant 100 G6 Lights Out 100i Remote Management
	<b>Form Factor</b>	Micro ATX Tower (4U)
	<b>Warranty</b>	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 Brazil only).



### Smart Buys

<b>HP S-Buy ML110 G6 X3430 NHP SATA Server</b> 578927-005	<b>Processor</b>	Intel® Xeon® processor X3430 (2.40GHz, 95W, 8MB, 1333, Turbo 1/1/2/3)
	<b>Cache Memory</b>	8MB Intel® Smart Cache
	<b>Memory</b>	2GB (1x2GB) PC3-10600E DDR3 UB ECC
	<b>Storage Controller</b>	HP Embedded 6 Port SATA Controller (4 ports for HDD)
	<b>Hard Drive</b>	1 x 160GB Non-hot-plug LFF SATA
	<b>Power Supply</b>	300W Non-Hot Plug, Non-Redundant Power Supply (80% efficiency)
	<b>Networking</b>	Embedded NC107i PCI Express Gigabit Ethernet Server Adapter
	<b>Management</b>	Integrated HP ProLiant 100 G6 Lights Out 100i Remote Management
	<b>Optical Drive</b>	HP Half-Height SATA DVD ROM
	<b>Mouse &amp; Keyboard</b>	Included
	<b>Form Factor</b>	Micro ATX Tower (4U)

<b>HP S-Buy ML110 G6 X3430 NHP SATA SBS 08 Server</b> 578928-005	<b>Processor</b>	Intel® Xeon® processor X3430 (2.40GHz, 95W, 8MB, 1333, Turbo 1/1/2/3)
	<b>Cache Memory</b>	8MB Intel® Smart Cache
	<b>Memory</b>	4GB (2x2GB) PC3-10600E DDR3 UB ECC
	<b>Storage Controller</b>	HP Embedded 6 Port SATA Controller (4 ports for HDD)
	<b>Hard Drive</b>	2 x 160GB Non-hot-plug LFF SATA
	<b>Power Supply</b>	300W Non-Hot Plug, Non-Redundant Power Supply (80% efficiency)
	<b>Networking</b>	Embedded NC107i PCI Express Gigabit Ethernet Server Adapter
	<b>Management</b>	Integrated HP ProLiant 100 G6 Lights Out 100i Remote Management
	<b>Optical Drive</b>	HP Half-Height SATA DVD RW
	<b>Operating System</b>	Windows Small Business Server 2008
	<b>Mouse &amp; Keyboard</b>	Included
<b>Form Factor</b>	Micro ATX Tower (4U)	

<b>HP S-Buy ML110 G6 X3440 NHP SATA Server</b> 578929-005	<b>Processor</b>	Intel® Xeon® processor X3440 (2.53GHz, 95W, 8MB, 1333, HT, Turbo 1/1/2/3)
	<b>Cache Memory</b>	8MB Intel® Smart Cache
	<b>Memory</b>	2GB (1x2GB) PC3-10600E DDR3 UB ECC
	<b>Storage Controller</b>	HP Embedded 6 Port SATA Controller (4 ports for HDD)
	<b>Hard Drive</b>	1 x 250GB Non-hot-plug LFF SATA
	<b>Power Supply</b>	300W Non-Hot Plug, Non-Redundant Power Supply (80% efficiency)
	<b>Networking</b>	Embedded NC107i PCI Express Gigabit Ethernet Server Adapter
	<b>Management</b>	Integrated HP ProLiant 100 G6 Lights Out 100i Remote Management
	<b>Optical Drive</b>	HP Half-Height SATA DVD RW
	<b>Mouse &amp; Keyboard</b>	Included
	<b>Form Factor</b>	Micro ATX Tower (4U)



### Smart Buys

<b>HP S-Buy ML110 G6 i3-530 Server</b> 597556-005	<b>Processor</b>	Intel® Core™ i3-530 (2.93GHz/2-core/4MB/73W)
	<b>Cache Memory</b>	4MB Intel® Smart Cache
	<b>Memory</b>	1 GB (1x1GB) PC3-10600E DDR3 UB ECC
	<b>Storage Controller</b>	HP Embedded Smart Array B110i SATA RAID Controller (RAID 0/1/10)
	<b>Hard Drive</b>	1 x 160GB Non-hot-plug LFF SATA
	<b>Power Supply</b>	300W Non-Hot Plug, Non-Redundant Power Supply (80% efficiency)
	<b>Networking</b>	Embedded NC107i PCI Express Gigabit Ethernet Server Adapter
	<b>Management</b>	Integrated HP ProLiant 100 G6 Lights Out 100i Remote Management
	<b>Optical Drive</b>	HP Half-Height SATA DVD ROM
	<b>Mouse &amp; Keyboard</b>	Included
	<b>Form Factor</b>	Micro ATX Tower (4U)

<b>HP S-Buy ML110 G6 i3-540 Server</b> 597557-005	<b>Processor</b>	Intel® Core™ processor i3-540 (3.06GHz, 73W, 4MB, 1333, HT)
	<b>Cache Memory</b>	4MB Intel® Smart Cache
	<b>Memory</b>	2GB (1x2GB) PC3-10600E DDR3 UB ECC
	<b>Storage Controller</b>	HP Embedded Smart Array B110i SATA RAID Controller (RAID 0/1/10)
	<b>Hard Drive</b>	1 x 250GB Non-hot-plug LFF SATA
	<b>Power Supply</b>	300W Non-Hot Plug, Non-Redundant Power Supply (80% efficiency)
	<b>Networking</b>	Embedded NC107i PCI Express Gigabit Ethernet Server Adapter
	<b>Management</b>	Integrated HP ProLiant 100 G6 Lights Out 100i Remote Management
	<b>Optical Drive</b>	HP Half-Height SATA DVD RW
	<b>Mouse &amp; Keyboard</b>	Included
	<b>Form Factor</b>	Micro ATX Tower (4U)

<b>HP S-Buy ML110 G6 i3-540 Server</b> 597558-005	<b>Processor</b>	Intel® Core™ processor i3-540 (3.06GHz, 73W, 4MB, 1333, HT)
	<b>Cache Memory</b>	4MB Intel® Smart Cache
	<b>Memory</b>	2GB (1x2GB) PC3-10600E DDR3 UB ECC
	<b>Storage Controller</b>	HP Embedded Smart Array B110i SATA RAID Controller (RAID 0/1/10)
	<b>Hard Drive</b>	2 x 160GB Non-hot-plug LFF SATA
	<b>Power Supply</b>	300W Non-Hot Plug, Non-Redundant Power Supply (80% efficiency)
	<b>Networking</b>	Embedded NC107i PCI Express Gigabit Ethernet Server Adapter
	<b>Management</b>	Integrated HP ProLiant 100 G6 Lights Out 100i Remote Management
	<b>Optical Drive</b>	HP Half-Height SATA DVD RW
	<b>Operating System</b>	Microsoft Windows Server 2008 Foundation, not preinstalled
	<b>Mouse &amp; Keyboard</b>	Included
<b>Form Factor</b>	Micro ATX Tower (4U)	

<b>HP S-Buy ML110 G6 X3430 Server</b> 652011-S01	<b>Processor</b>	Intel® Xeon® processor X3430 (2.40GHz, 95W, 8MB, 1333, Turbo 1/1/2/3)
	<b>Cache Memory</b>	8MB Intel® Smart Cache
	<b>Memory</b>	2GB (1x2GB) PC3-10600E DDR3 UB ECC



### Smart Buys

<b>Storage Controller</b>	HP Embedded 6 Port SATA Controller (4 ports for HDD)
<b>Hard Drive</b>	1 x 250GB Non-hot-plug LFF SATA
<b>Power Supply</b>	300W Non-Hot Plug, Non-Redundant Power Supply (80% efficiency)
<b>Networking</b>	Embedded NC107i PCI Express Gigabit Ethernet Server Adapter
<b>Management</b>	Integrated HP ProLiant 100 G6 Lights Out 100i Remote Management
<b>Optical Drive</b>	HP Half-Height SATA DVD ROM
<b>Form Factor</b>	Micro ATX Tower (4U)



### Configuration Information-Factory Integrated Models

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

**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 configurable product offerings and requirements.

**NOTE:** Configure-to-order (CTO) servers must start with a CTO Chassis.

**NOTE:** FIO indicates that this option is only available as a factory installable option.

### Step 1: Base Configuration

HP Models	HP ProLiant ML110 G6 Configure-to-order Server	510078-B21
	<b>Factory Integrated Models ship with:</b>	
	Embedded NC107i PCI Express Gigabit Ethernet Server Adapter	
	Integrated HP ProLiant 100 G6 Lights Out 100i Remote Management	
	HP Embedded Smart Array B110i SATA RAID Controller (RAID 0/1/10), 4 ports for HDD	
	<b>NOTE:</b> For set up instructions for HP Smart Array B110i SATA Controller please refer to the HP ProLiant ML100 series server user guide at: <a href="http://bizsupport1.austin.hp.com/bc/docs/support/SupportManual/c01708878/c01708878.pdf">http://bizsupport1.austin.hp.com/bc/docs/support/SupportManual/c01708878/c01708878.pdf</a>	
	<b>NOTE:</b> For general information about HP Smart Array B110i SATA RAID Controller, please visit: <a href="http://h18004.www1.hp.com/products/servers/proliantstorage/arraycontrollers/smartarrayb110i/index.html">http://h18004.www1.hp.com/products/servers/proliantstorage/arraycontrollers/smartarrayb110i/index.html</a>	
	Non hot-plug SAS/SATA 4 port cable	
	Easy set up CD	
	PCA	
	Power cord	
	Micro ATX Tower (4U)	

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

HP Processors	<b>Quad-Core Processor</b>	
	HP ML110 G6 Intel® Xeon® X3450 (2.66GHz/4-core/8MB/95W) FIO Processor Kit	578347-L21
	HP ML110 G6 Intel® Xeon® X3430 (2.40GHz/4-core/8MB/95W) FIO Processor Kit	578345-L21
	<b>Dual-Core Processor</b>	
	HP ML110G6 Intel® Xeon® i3-550 (3.20GHz/2-core/4MB/73W) FIO Processor Kit	622185-L21
	HP ML110 G6 Intel® Core™ i3-540 (3.06GHz/2-core/4MB/73W) FIO Processor Kit	578352-L21
	HP ML110 G6 Intel® Core™ i3-530 (2.93GHz/2-core/4MB/73W) FIO Processor Kit	578351-L21
	HP ML110 G6 Intel® Pentium® G6950 (2.80GHz/2-core/3MB/73W) FIO Processor Kit	578350-L21
	HP ML110 G6 Intel® Celeron G1101 (2.26GHz/2-core/2MB/73W) FIO Processor Kit	578349-L21



### Configuration Information-Factory Integrated Models

HP Memory	HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500672-B21
	HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500670-B21
	HP 1GB (1x1GB) Single Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500668-B21

**NOTE:** All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the [Online DDR3 Memory Configuration Tool](http://www.hp.com/go/ddr3memory-configurator) at: [www.hp.com/go/ddr3memory-configurator](http://www.hp.com/go/ddr3memory-configurator).

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

HP Hard Drives	<b>SATA Non-Hot Plug LFF (3.5-inch) Midline (MDL) Drives</b>	
	HP 2TB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Midline 1yr Warranty Hard Drive	507774-B21
	HP 1TB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Midline 1yr Warranty Hard Drive	507772-B21
	HP 500GB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Midline 1yr Warranty Hard Drive	458941-B21
	<b>SATA Non-Hot Plug LFF (3.5-inch) Entry (ETY) Drives</b>	
	HP 250GB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Entry 1yr Warranty Hard Drive	571232-B21
	HP 160GB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Entry 1yr Warranty Hard Drive	458947-B21
	<b>SAS Non-Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives</b>	
	<b>NOTE:</b> Support for SAS non-hot plug drives requires HP SAS/Smart Array Controller. See Step 3 below.	
	HP 600GB 6G SAS 15K rpm LFF (3.5-inch) Non-hot Plug Dual Port Enterprise 3yr Warranty Hard Drive	516830-B21
	HP 450GB 6G SAS 15K rpm LFF (3.5-inch) Non-hot Plug Dual Port Enterprise 3yr Warranty Hard Drive	516826-B21
	HP 300GB 6G SAS 15K rpm LFF (3.5-inch) Non-hot Plug Dual Port Enterprise 3yr Warranty Hard Drive	516824-B21

HP Storage Controllers	<b>SAS Controller</b>	
	<b>NOTE:</b> Support for SAS hard drives/tape drive requires selection of a SAS controller.	
	<b>NOTE:</b> Support for hardware RAID requires selection of a SAS controller.	
	<b>Smart Array P212 Controller</b>	
	HP Smart Array P212/256 BBWC 1-ports Int/1-ports Ext PCIe x8 FIO SAS Controller	491191-B21



## Configuration Information-Factory Integrated Models

### Step 3: Choose Additional Factory Integratable Options (only one unless otherwise noted)

HP USB and SD Options	HP ProLiant Server Mouse Carbon	AC105A
(Both can be selected)	HP ProLiant W2K Server Keyboard	AC110A

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

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



### Core Options

**NOTE:** Some options may not be integrated at the factory. To ensure only valid configurations are ordered, HP recommends the use of an HP approved configurator. Contact your local sales representative for additional information.

<b>HP Memory</b>	HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500672-B21
	HP S-BUY 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500672-S21
	HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500670-B21
	HP S-BUY 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500670-S21
	HP 1GB (1x1GB) Single Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500668-B21

**NOTE:** All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool at: [www.hp.com/go/ddr3memory-configurator](http://www.hp.com/go/ddr3memory-configurator).

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

### HP Hard Drives

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

**NOTE:** Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

**NOTE:** HP Smart Array B110i does not support greater than 2TB hard drive.

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

HP 2TB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Midline 1yr Warranty Hard Drive	507774-B21
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HP 1TB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Midline 1yr Warranty Hard Drive	507772-B21
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HP 500GB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Midline 1yr Warranty Hard Drive	458941-B21
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#### SATA Non-Hot Plug LFF (3.5-inch) Entry (ETY) Drives

HP 250GB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Entry 1yr Warranty Hard Drive	571232-B21
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HP 160GB 3G SATA 7.2K rpm LFF (3.5-inch) Non-hot Plug Entry 1yr Warranty Hard Drive	458947-B21
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**NOTE:** Please see the QuickSpecs for Technical Specifications and additional information:

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

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

**NOTE:** Support for SAS non-hot plug drives requires HP SAS/Smart Array Controller.

HP 600GB 6G SAS 15K rpm LFF (3.5-inch) Non-hot Plug Dual Port Enterprise 3yr Warranty Hard Drive	516830-B21
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### Core Options

HP 450GB 6G SAS 15K rpm LFF (3.5-inch) Non-hot Plug Dual Port Enterprise 3yr Warranty Hard Drive	516826-B21
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HP 300GB 6G SAS 15K rpm LFF (3.5-inch) Non-hot Plug Dual Port Enterprise 3yr Warranty Hard Drive	516824-B21
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**NOTE:** Please see the QuickSpecs for Technical Specifications and additional information:

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

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### HP Networking

HP NC112T PCI Express Gigabit Server Adapter	503746-B21
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HP NC360T PCI-E Dual Port Gigabit Server Adapter	412648-B21
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HP NC373T PCI-E Multifunction Gigabit Server Adapter	394791-B21
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HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter	458492-B21
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**NOTE:** Please see the QuickSpecs for Technical Specifications and additional information: [www.hp.com/go/ProLiantNICs](http://www.hp.com/go/ProLiantNICs)



### Additional Options

**NOTE:** Some options may not be integrated at the factory. To ensure only valid configurations are ordered, HP recommends the use of an HP approved configurator. Contact your local sales representative for additional information.

**HP Entry-Level Server Management** HP Lights-Out 100i (LO100i) Advanced including 1yr 24x7 Support Single Server License 530521-B21

**NOTE:** For additional License Kits please see the Lights-Out 100i QuickSpecs at: [www.hp.com/go/lo100](http://www.hp.com/go/lo100).

**HP Security (TPM)** HP Trusted Platform Module Option 488069-B21

**NOTE:** The TPM (Trusted Platform Module) is a microcontroller chip that can securely store artifacts used to authenticate the server platform. These artifacts can include passwords, certificates and encryption keys. Windows® BitLocker™ Drive Encryption (BitLocker) is a data protection feature available in Windows Server® 2008. BitLocker leverages the enhanced security capabilities of a Trusted Platform Module (TPM) version 1.2. The TPM works with BitLocker to help protect user data and to ensure that a server running Windows Server 2008 has not been tampered with while the system was offline.

**NOTE:** For more information about TPM, please visit: [www.hp.com/go/TPM](http://www.hp.com/go/TPM)

**NOTE:** ProLiant OS pre-installed units will come with the partition required for TPM deployment.

**NOTE:** The TPM key is unique to every TPM deployed server and must be retained. Misplacing or losing the key could result in data loss.

### HP Storage Controllers

#### SAS Controllers

**NOTE:** Support for SAS hard drives/tape drive requires selection of a SAS controller.

**NOTE:** Support for hardware RAID requires selection of a SAS controller.

#### Smart Array P212 Controller

HP Smart Array P212/ZM 1-ports Int/1-ports Ext PCIe x8 SAS Controller 462828-B21

HP Smart Array P212/256 1-ports Int/1-ports Ext PCIe x8 SAS Controller 462834-B21

#### Optional Upgrades

HP 256MB P-series Cache Upgrade 462968-B21

HP 650 mAh P-Series Battery 462969-B21

**NOTE:** Required to enable BBWC on the 256MB cache.

HP Non-Hot Plug Internal SAS/SATA 4 Port Cable Kit 487734-B21

**NOTE:** This cable will only be required when Smart Array Controller is ordered with a BTO configuration.

HP Smart Array Advanced Pack including 1yr 24x7 Technical Support and Updates Single Server License 516471-B21

**NOTE:** This part number can be used to purchase a single license or to order multiple licenses with a single activation key. Customers will receive a license entitlement certificate via e-mail. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Include one year of 24x7 HP Software Technical Support Services.



### Additional Options

**NOTE:** Please see the following QuickSpecs for Technical Specifications and additional information:

[http://h18000.www1.hp.com/products/quickspecs/13203\\_na/13203\\_na.html](http://h18000.www1.hp.com/products/quickspecs/13203_na/13203_na.html)  
(Smart Array P212 Controller) (Worldwide)

[http://h18000.www1.hp.com/products/quickspecs/13200\\_na/13200\\_na.html](http://h18000.www1.hp.com/products/quickspecs/13200_na/13200_na.html)  
(Smart Array Advanced Pack) (Worldwide)

#### SCSI HBA

HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter 412911-B21

**NOTE:** Supports SCSI Tapes only, no RAID support.

**NOTE:** HBA is recommended for SCSI tape drive support.

**NOTE:** Please see the following QuickSpecs for Technical Specifications and additional information:

[http://h18004.www1.hp.com/products/quickspecs/12566\\_na/12566\\_na.html](http://h18004.www1.hp.com/products/quickspecs/12566_na/12566_na.html)  
(SC11Xe HBA) (Worldwide)

#### HP Backup & Recovery Software

##### Data Protector Express

HP Data Protector Express V5.0 for 1 Server E-LTU TC330AAE

HP Data Protector Express V5.0 for 3 Servers E-LTU TC331AAE

HP Data Protector Express V5.0 for 10 Servers E-LTU TC332AAE

HP Basic Upgrade to Data Protector Express V5 for 1 Server E-LTU TC333AAE

**NOTE:** Only one of these Data Protector Express base products is required. To see available options: <http://www.hp.com/go/dataprotectorexpress>

#### HP Tape Backup

**NOTE:** For the complete range of tape drives, autoloaders, libraries and media see:

<http://www.hp.com/go/tape>. For hardware and software compatibility of HP tape backup products see: <http://www.hp.com/go/connect>.

HP DAT 320 USB Internal Tape Drive AJ825A

HP DAT 320 SAS Internal Tape Drive AJ830A

**NOTE:** Connection using HP P212 Smart Array Controller SAS (462828-B21) recommended.

HP Ultrium 448 SAS Internal Drive DW085A

**NOTE:** Connection using HP P212 Smart Array Controller SAS (462828-B21) recommended.

HP Ultrium 920 SAS Internal Tape Drive EH847A

**NOTE:** Connection using HP P212 Smart Array Controller SAS (462828-B21) recommended.

HP 1/8 G2 Ultrium 920 SAS Autoloader AH558A

**NOTE:** Requires HP 1U Tape Autoloader Rack-Mount Kit (AH166A) for rack installation. Connection using HP P212 Smart Array Controller SAS (462828-B21) recommended.

HP MSL2024 Ultrium 920 SAS Tape Library AH559A

**NOTE:** Connection using HP P212 Smart Array Controller SAS (462828-B21) recommended.



### Additional Options

#### HP Disk Backup

**NOTE:** For the complete range of D2D Backup Systems see: <http://www.hp.com/go/d2d>. For the complete range of RDX drives and media see: <http://www.hp.com/go/rdx>. For hardware and software compatibility of HP disk backup products see: <http://www.hp.com/go/connect>.

#### HP D2D Backup Systems with Backup Data Deduplication

**NOTE:** These are network connected appliances with connectivity using the iSCSI protocol. If the server requires a hardware iSCSI initiator, the QLogic QLA4050 Host Bus Adapter is recommended.

HP D2D2502i Backup System

EJ001B

**NOTE:** 1.5TB of usable network disk backup capacity. Network connected appliance with connectivity using the iSCSI protocol. If the server requires a hardware iSCSI initiator, the QLogic QLA4050 Host Bus Adapter is recommended.

HP D2D2504i Backup System

EJ002B

**NOTE:** 3.0TB of usable network disk backup capacity. Network connected appliance with connectivity using the iSCSI protocol. If the server requires a hardware iSCSI initiator, the QLogic QLA4050 Host Bus Adapter is recommended.

#### USB Removable Media RDX Disk Backup Systems

HP RDX320 Internal Removable Disk Backup System

AJ767A

**NOTE:** 320GB of disk capacity per data cartridge.

HP RDX500 Internal Removable Disk Backup System

AJ934A

**NOTE:** 500GB of disk capacity per data cartridge.

#### HP Uninterruptible Power Systems

##### HP Rackmountable UPS

##### R7000 Uninterruptible Power System (UPS)

HP R7KVA 4U 50A High Voltage Uninterruptible Power System

AF462A

**NOTE:** Please see the QuickSpecs for additional information:

[http://h18000.www1.hp.com/products/quickspecs/14110\\_na/14110\\_na.html](http://h18000.www1.hp.com/products/quickspecs/14110_na/14110_na.html)

##### R5000 Uninterruptible Power System (UPS)

HP R5KVA 3U L630 High Voltage Uninterruptible Power System

AF460A

**NOTE:** Please see the QuickSpecs for additional information:

[http://h18000.www1.hp.com/products/quickspecs/14109\\_na/14109\\_na.html](http://h18000.www1.hp.com/products/quickspecs/14109_na/14109_na.html)

##### HP R/T3000 G2 Uninterruptible Power System (UPS)

HP R/T3000 G2 2U L530 Low Voltage Uninterruptible Power System

AF466A

HP R/T3000 G2 2U L620 High Voltage Uninterruptible Power System

AF467A

**NOTE:** Please see the QuickSpecs for additional information:

[http://h18000.www1.hp.com/products/quickspecs/14058\\_na/14058\\_na.html](http://h18000.www1.hp.com/products/quickspecs/14058_na/14058_na.html)

##### HP R1500 G3 Uninterruptible Power Supply (UPS)

HP R1.5kVA G3 1U Uninterruptible Power System

AF469A

**NOTE:** Please see the QuickSpecs for additional information:

[http://h18000.www1.hp.com/products/quickspecs/14059\\_na/14059\\_na.html](http://h18000.www1.hp.com/products/quickspecs/14059_na/14059_na.html)

##### HP T1000 G3 UPS Models

HP T1000 G3 1000VA Tower Uninterruptible Power System

AF448A

**NOTE:** Please see the QuickSpecs for additional information:

[http://h18000.www1.hp.com/products/quickspecs/12507\\_na/12507\\_na.html](http://h18000.www1.hp.com/products/quickspecs/12507_na/12507_na.html)

##### HP T750 G2 UPS Models



### Additional Options

HP T750 G2 750VA Tower Uninterruptible Power System

AF446A

**NOTE:** Please see the QuickSpecs for additional information:

[http://h18000.www1.hp.com/products/quickspecs/13160\\_na/13160\\_na.html](http://h18000.www1.hp.com/products/quickspecs/13160_na/13160_na.html)

**NOTE:** For additional information regarding HP Uninterruptible Power Systems, please see the following URL: [www.hp.com/go/rackandpower](http://www.hp.com/go/rackandpower)

**NOTE:** For additional information on sizing your server, please reference:

<http://www.upssizer.com>

**NOTE:** Please see the UPS and PDU cable matrix's on the HP Power Protection and Management page. Under Power Cords, click on the "HP Power Cord Matrix" link. That link will list cable descriptions, requirements, and specifications for UPS and PDU units. Please see the following link: [www.hp.com/products/powercords](http://www.hp.com/products/powercords).

### HP Rack Series

HP Rack 10000 G2 Series (Graphite Metallic)

HP 10642 G2 Pallet Universal Rack

AF001A

HP 10642 G2 Shock Universal Rack

AF002A

**NOTE:** It is mandatory to use a shock pallet when shipping racks with equipment installed.

**NOTE:** Please see the Rack 10000 G2 QuickSpecs for Technical Specifications such as height, width, depth, weight, and color:

[http://h18000.www1.hp.com/products/quickspecs/12402\\_na/12402\\_na.html](http://h18000.www1.hp.com/products/quickspecs/12402_na/12402_na.html)

**NOTE:** For additional information regarding Rack Cabinets, please see the following URL: <http://www.hp.com/go/rackandpower>

**NOTE:** The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The 10000 G2 Series Racks provide enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.

**CAUTION:** If a third-party rack is used, observe the following additional requirements to ensure adequate airflow and to prevent damage to the equipment:

- Front and rear doors: If your 42U server rack includes closing front and rear doors, you must allow 830 square inches (5,350 sq cm) of hole evenly distributed from top to bottom to permit adequate airflow (equivalent to the required 64 percent open area for ventilation).
- Side: The clearance between the installed rack component and the side panels of the rack must be a minimum of 2.75 inches (7 cm).

**CAUTION:** Always use blanking panels to fill all remaining empty front panel U-spaces in the rack. This arrangement ensures proper airflow. Using a rack without blanking panels results in improper cooling that can lead to thermal damage.

**NOTE:** HP ProLiant DL rack models have fixed rails which provide support for racks with round mounting holes and tool-free support for racks with square mounting holes (including Compaq/HP 7000, 9000, 10000 and HP series), with an adjustment range of 26" - 36".

**NOTE:** Support for all 2 and 4 post Telco racks and threaded hole racks requires an additional option kit from Rack Solutions. The Rack Solutions brackets can be purchased at: [www.hp.com/go/rackandpower](http://www.hp.com/go/rackandpower).



### Additional Options

HP Rack Options	<b>HP KVM Switches</b>	
	HP Server Console 0x2x8 Port Analog Switch	AF616A
	HP Server Console 0x2x16 Port Analog Switch	AF617A
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information: <a href="http://h18000.www1.hp.com/products/quickspecs/11834_na/11834_na.html">http://h18000.www1.hp.com/products/quickspecs/11834_na/11834_na.html</a>	
	HP 1x4 USB/PS2 KVM Console Switch	AF611A
	<b>HP Server Console Switch G2 with Virtual Media &amp; CAC</b>	
	HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software	AF618A
	HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software	AF619A
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information: <a href="http://h18000.www1.hp.com/products/quickspecs/13475_na/13475_na.html">http://h18000.www1.hp.com/products/quickspecs/13475_na/13475_na.html</a>	
	<b>HP IP Console Switch G2 with Virtual Media &amp; CAC</b>	
HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software	AF620A	
HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software	AF621A	
HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software	AF622A	
<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information: <a href="http://h18000.www1.hp.com/products/quickspecs/13474_na/13474_na.html">http://h18000.www1.hp.com/products/quickspecs/13474_na/13474_na.html</a>		
<b>HP Rack Options</b>		
HP Tower to Rack Conversion Tray Universal Kit	417705-B21	
HP USB and SD Options	HP USB 2-Button Optical Scroll Mouse	DC172B
	HP USB 04 Standard Keyboard	DT528A#ABA
	<b>NOTE:</b> For the installation of Windows and other OS's, a floppy drive or the HP USB Floppy Drive Key may be required to complete driver installation. A standard USB drive key may not work to complete driver installation.	



### Additional Options

HP Care Pack Services	<b>Hardware Services Next Business Day On-Site Service</b>	
	HP 3 year Next business day ProLiant ML110 Hardware Support	U4433E
	<b>Hardware Services - 4-Hour On-site Service</b>	
	HP 3 year 4 hour 13x5 ProLiant ML110 Hardware Support	U4434E
	HP 3 year 4 hour 24x7 ProLiant ML110 Hardware Support	U4435E
HP Smart Buy Care Pack Services	<b>Hardware Services 6-Hour Call to Repair On-Site Service</b>	
	HP 3 year 6 hour 24x7 Call to Repair ProLiant ML110 Hardware Support	U4436E
	<b>Hardware Installation</b>	
	HP Install ProLiant ML110 Service	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> .	
	4-Hour Onsite Response, 13-Hour x 5-Day Coverage, 3 years	UE895E
	4-Hour Onsite Response, 24-Hour x 7-Day Coverage, 3 years	UE896E
	<b>NOTE:</b> Smart Buy Care Packs can only be attached to Smart Buy SKUs	
	<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 ML110 G6 Models

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

#### Standard Memory

SATA Models:

2GB or 4 GB of PC3-10600E DDR3 UDIMM running up to 1333MHz with memory kits installed.

#### Standard Memory with Optional Memory

Up to 8GB of memory is available with the installation of standard and optional memory, 4x 2 GB PC3-10600E un-buffered ECC DDR3 SDRAM DIMM Memory kits.

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

**NOTE:** For best performance, it is recommended that customer installs memory in identical pairs (Slots 1C and 3D are interleaving pair. Slots 2A and 4B are interleaving pair).

Memory		Slot			
		DIMM1C	DIMM2A	DIMM3D	DIMM4B
Standard (Entry Model)	2 GB	Empty	2 GB	Empty	Empty
Standard (Base Model)	2 GB	Empty	2 GB	Empty	Empty
Standard (Performance Model)	4 GB	Empty	2 GB	Empty	2 GB
Maximum	16 GB	4 GB	4 GB	4 GB	4 GB

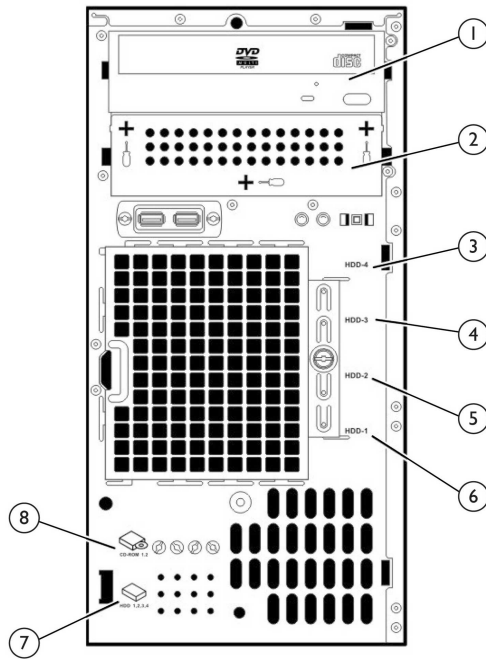
Following are memory options available from HP:

HP Memory	HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500672-B21
	HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500670-B21
	HP 1GB (1x1GB) Single Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500668-B21

**NOTE:** All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: [www.hp.com/go/ddr3memory-configurator](http://www.hp.com/go/ddr3memory-configurator).



### Storage



1. 1<sup>st</sup> removable media drive
2. 2<sup>nd</sup> removable media drive
3. 4<sup>th</sup> SAS/SATA hard drive
4. 3<sup>rd</sup> SAS/SATA hard drive
5. 2<sup>nd</sup> SAS/SATA hard drive
6. 1<sup>st</sup> SAS/SATA hard drive
7. HDD spare screws
8. Removable media drive spare screws

### 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

### Storage

#### Hard Drives (SATA Models only)

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

**NOTE:** Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

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

	Quantity Supported	Position Supported	Controller
2TB 3G 7.2K	Up to 4	3,4,5,6	Smart Array B110i SATA RAID Controller (RAID 0/1/10)
1TB 3G 7.2K			<b>NOTE:</b> Hardware RAID support requires purchase of HP Smart Array P212 Controller.
500GB 3G 7.2K			

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

	Quantity Supported	Position Supported	Controller
250GB 3G 7.2K	Up to 4	3,4,5,6	Smart Array B110i SATA RAID Controller (RAID 0/1/10)
160GB 3G 7.2K			<b>NOTE:</b> Hardware RAID requires purchase of HP Smart Array P212 Controller.

#### Hard Drives (SAS Models only)

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

**NOTE:** SAS non-hot plug drives require HP SAS/Smart Array Controller.

	Quantity Supported	Position Supported	Controller
600GB 6G 15K	Up to 4	3,4,5,6	Smart Array P212 Controller
450GB 6G 15K			<b>NOTE:</b> Transfer rates of drives are dependent on the maximum transfer rate supported by the Controller. Refer to the Controller technical specifications for details.
300GB 6G 15K			

#### Maximum Storage Capacity - SATA/SAS Models

Internal	SATA	8.0TB (4 x 2TB)
	SAS	2.4TB (4 x 600GB)

#### Tape and Disk-Based Backup

**NOTE:** For the complete range of tape drives, autoloaders, libraries and media, including the internal fitting models, see: <http://www.hp.com/go/tape>. For the complete range of D2D Backup Systems see: <http://www.hp.com/go/d2d>. For the complete range of RDX drives and media see: <http://www.hp.com/go/rdx>. For hardware and software compatibility of HP disk and tape backup products see: <http://www.hp.com/go/connect>.

HP SCSI Tape Drives	Position	Recommended Controller	Part Number
LTO-1 Ultrium 232	Internal or External	HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter	412911-B21
LTO-2 Ultrium 448			
LTO-3 Ultrium 920			
LTO-3 Ultrium 960			
LTO4 Ultrium 1760			
LTO-4 Ultrium 1840			
DAT 40			
DAT 72			
DAT 160			



### Storage

<b>HP SCSI Rack Mount Kits</b> 1U Rack-Mount Kit 3U Rack-Mount Kit	External	HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter	412911-B21
<b>HP USB Tape Drives</b> DAT 40 DAT 72 DAT 160 DAT 320	Internal or External	USB 2.0 Port	N/A
<b>HP USB Rack Mount Kits</b> 1U USB Rack-Mount Kit	External	USB 2.0 Port	N/A
<b>HP SAS Tape Drives</b> DAT 160 DAT 320 LTO-2 Ultrium 448 LTO-3 Ultrium 920 LTO-4 Ultrium 1760 LTO-4 Ultrium 1840 LTO-5 Ultrium 3000 LTO-5 Ultrium 3280	Internal or External	HP Smart Array P212/ZM 1-ports Int/1-ports Ext PCIe x8 SAS Controller	462828-B21
<b>HP SAS Rack Mount Kits</b> 1U Rack-Mount Kit 3U Rack-Mount Kit	External	HP Smart Array P212/ZM 1-ports Int/1-ports Ext PCIe x8 SAS Controller	462828-B21
<b>HP SCSI Tape Autoloaders</b> DAT 72x10 Autoloader 1/8 G2 Autoloader	External	HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter	412911-B21
<b>HP SCSI Tape Libraries</b> MSL2024 MSL4048 MSL8096	External	HP StorageWorks U320e SCSI Dual Channel Host Bus Adapter	AH627A
<b>HP SAS Tape Autoloaders and Libraries</b> 1/8 G2 Autoloader MSL2024 MSL4048 MSL8096	External	HP Smart Array P212/ZM 1-ports Int/1-ports Ext PCIe x8 SAS Controller	462828-B21



### Storage

<b>HP Fibre Channel Tape Libraries</b> MSL2024 MSL4048 MSL8096 MSL6000	External	Please consult the EBS connectivity matrix at: <a href="http://www.hp.com/go/ebs">http://www.hp.com/go/ebs</a> for connectivity information and the supported Fibre Channel HBAs shown in this QuickSpecs.	
<b>HP USB RDX Removable Disk Backup System</b> RDX160 RDX320 RDX500 RDX750	Internal or External	USB 2.0 port	N/A
<b>HP D2D Backup Systems, iSCSI</b> D2D2500i D2D4000i	External	Embedded Network Controller. If the server requires a hardware iSCSI initiator, the QLogic QLA4050 Host Bus Adapter is recommended.	
<b>HP D2D Backup Systems, Fibre Channel</b> D2D4000fc	External	Direct server attach is not supported, requires connection via SAN fabric. See: <a href="http://www.hp.com/go/connect">http://www.hp.com/go/connect</a>	



### Power Specifications

#### 300 Watts Non-Hot Plug, Non redundant Power Supply

Part Number	445067-001
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	120	200	230	240
Max Rated Output Wattage Rating	300	300	300	300	300
Nominal Input Current (A rms)	5	5	2.5	2.5	2.5
Max Rated Input Wattage Rating (Watts)	400	N/A	N/A	400	N/A
Max. Rated VA (Volt-Amp)	400	N/A	N/A	400	N/A
Efficiency (%)	80%	80%	80%	80%	80%
Power Factor	0.9	N/A	N/A	0.9	N/A
Leakage Current (mA)	3.5mA	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	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

### System Specifications

	<b>Power **</b>
<b>HP ProLiant ML110 G6 Fully Configured</b>	(see **)
Fully Loaded System output Wattage (W)	300W
Fully Loaded System Input Current (A rms)	5A @ 100V, 2.5A @ 200V
Fully Loaded System Thermal (BTU- Hr)	1277BTU
Fully Loaded System VA (Volt-Amp)	400 VA
System Leakage with all power supplies loaded (mA)	3.5mA@110V 3.5mA@220V
System Inrush Current with all power supplies loaded (A)	<150A@240Vac
Power cord requirements	Nema 5-15P to IEC320-C13 IEC320-C13 to IEC320-C14
	**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>Power Cords (13 Cord Sets)</b>	<b>Power Cord Part Number</b>
<b>Country</b>	
	121565-001

**NOTE:** To review typical system power ratings use the Active Answers HP Power Advisor which is available via the online tool located at URL: <http://www.hp.com/go/hppoweradvisor>

To drill down to calculators:

- Click on: "ProLiant Servers"
- Click on the Server of interest. Example: ML110 G6
- Click on: "Power Calculator" link. (You may need to scroll down to see it)



### Technical Specifications

System Unit	Dimensions (HxWxD) (with feet)	14.38 x 6.9 x 16.8 in (36.52 x 17.5 x 42.6 cm)		
	Weight (approximate)	Maximum (all hard drives, power supplies, and processors installed)	30.53 lb (13.85 kg)	
		Minimum (one hard drive, power supply, and processor installed)	25.13 lb (11.4 kg)	
	Input Requirements (per power supply)	Rated Line Voltage	90 to 132 VAC, 180 to 264 VAC	
		Rated Input Current	5 A (at 100 VAC), 2.5 A (at 200 VAC)	
		Rated Input Frequency	47 to 63 Hz	
		Rated Input Power	400 W (at 100 VAC), 400 W (at 200 VAC)	
	Power Specifications	To review typical power ratings use the Power Advisor which is available via the online tool located at URL: <a href="http://www.hp.com/go/hppoweradvisor">http://www.hp.com/go/hppoweradvisor</a>		
	Power Supply Output (per power supply)	Rated Steady-State Power	300 W (at 100 VAC), 300 W (at 200 VAC)	
		Maximum Peak Power	300 W (at 100 VAC), 300 W (at 200 VAC)	
System Inlet Temperature	Operating	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 304.8 m (1.8°F per every 1000 ft) above sea level to a maximum of 3048 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 may shut down if operating with a fan fault or above 42°C (107.6°F).		
	Non-operating	-35° to 65°C (-31° to 149°F). Maximum rate of change is 20°C/hr (36°F/hr).		
Relative Humidity (non-condensing)	Operating	10% to 90% relative humidity (Rh), 28°C (82.4°F) maximum wet bulb temperature, non-condensing.		
	Non-operating	10% to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.		
Altitude	Operating	3048 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 609 m/min (2000 ft/min).		
	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 609 m/min (2000 ft/min).		



### Technical Specifications

#### Acoustic Noise

Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).

Idle

LWAd 4.32 Bels

LpAm 24.9 dBA

Operating

LWAd 4.41 Bels

LpAm 25 dBA

**NOTE:** The listed sound levels above apply to standard SATA configurations. Additional options may result in increased sound levels.

#### Emissions Classification (EMC)

FCC Rating Class B

Normative Standards CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1

**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.

HP 160GB 3G SATA  
7.2K rpm LFF (3.5-inch)  
Non-hot Plug Entry 1yr  
Warranty Hard Drive

458947-B21

<b>Capacity</b>	160,041MB
<b>Height</b>	1.028 in. (26.1 mm)
Maximum drive dimension	
<b>Width</b>	4.00 in (101.6 mm)
<b>Depth</b>	5.787 in (147.0 mm)
Maximum drive dimension	
<b>Interface</b>	Serial ATA
<b>Transfer Rate</b> (Maximum)	3Gb/s
<b>Native Command Queuing</b>	Supported
<b>Seek Time</b> (typical reads, including settling)	Single Track 2.0 ms Average <11 ms Full-Stroke 22.0 ms
	Rotational Speed 7,200 rpm
<b>Physical Configuration</b>	Bytes/Sector 512 Logical Blocks 312,581,808
<b>Operating Temperature</b> (system inlet air temperature)	50° to 95° F (10° to 35° C)



### Technical Specifications

HP 250GB 3G SATA 571232-B21  
7.2K rpm LFF (3.5-inch)  
Non-hot Plug Entry 1yr  
Warranty Hard Drive

<b>Capacity</b>	250,059MB
<b>Height</b>	1.028 in. (26.1 mm)
Maximum drive dimension	
<b>Width</b>	4.00 in (101.6 mm)
<b>Depth</b>	5.787 in (147.0 mm)
Maximum drive dimension	
<b>Interface</b>	Serial ATA
<b>Transfer Rate</b> (Maximum)	3Gb/s
<b>Native Command Queuing</b>	Supported
<b>Seek Time</b> (typical reads, including settling)	Single Track 2.0 ms Average 11 ms Full-Stroke 21.0 ms
	Rotational Speed 7,200 rpm
<b>Physical Configuration</b>	Bytes/Sector 512 Logical Blocks 488,397,168
<b>Operating Temperature</b> (system inlet air temperature)	50° to 95° F (10° to 35° C)

HP Half-Height 16X Max SATA DVD-ROM Optical Drive

<b>Applicable Disk</b>	CD-ROM, CD-XA, CD-DA (Mode 1, Mode 2, Form 1 and 2) Photo CD (Single and Multi-session) Mixed Mode (Audio and Data combined) CD-R, CD-RW, DVD-ROM, DVD+R, DVD+RW
<b>Capacity</b>	4.7 GB (DVD-5) 8.54 GB (DVD-9)
<b>Block Size</b>	DVD Media 2,048 bytes
<b>Interface</b>	SATA 3Gb/s
<b>Access Times (typical)</b>	Random <140 ms Full-Stroke <250 ms
<b>Data Transfer Rate</b>	Sustained 8100 to 21600 KB/s (6X to 16X)
<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) 1.7 x 5.85 x 8.11 in (42.9 x 150 x 195 mm) Weight 2.64 lb (1.2 kg)



### Technical Specifications

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<b>Embedded NC107i PCIe Gigabit Server Adapter (Embedded)</b>	<b>Network Interface</b>	Integrated 10/100/1000BASE-T Transceiver	
		Combines a triple-speed IEEE 802.3TM - Compliant Media Access Controller (MAC) with a triple-speed Ethernet transceiver.	
	<b>Data Transfer Method</b>	Compliant to x1 PCIe Specification	
	<b>Controller</b>	BCM5723	
	<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>	Performs all the physical layer functions for 10BASE-T, 100BASE-T, and 1000BASE-T Ethernet on standard Category 5 UTP		

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<b>Environment-friendly Products and Approach</b>	<b>End-of-life Management and Recycling</b>	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: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> . To recycle your product, please go to: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.
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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.

