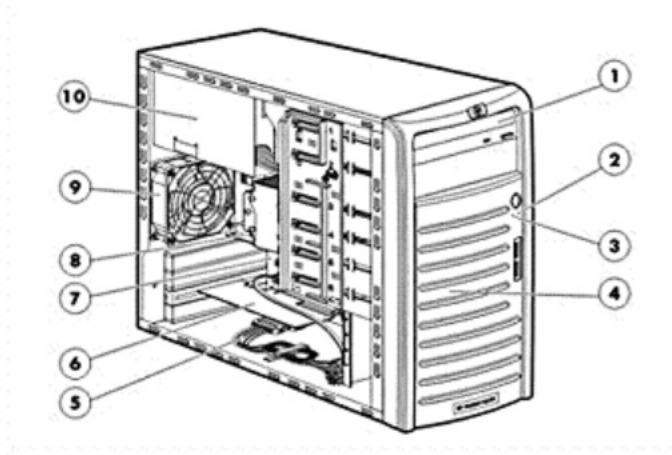


# QuickSpecs

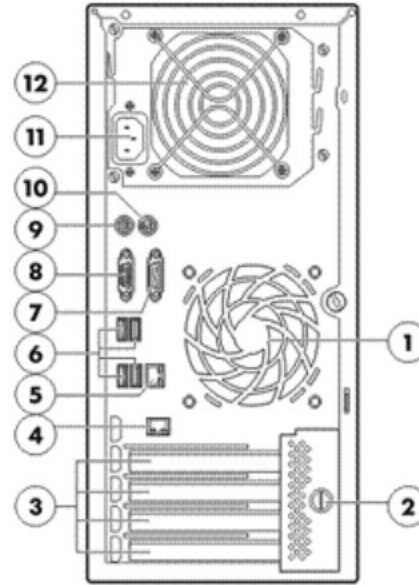
HP ProLiant ML110 Generation 5 (G5)

## Overview



### Front View:

1. DVD-ROM Drive
2. Power LED
3. Drive Activity LED
4. Front Bezel
5. SAS Cable (SAS model only)
6. Hard Drive Controller Card (Optional)
7. System Board
8. HP ProLiant 100 G5 Lights-Out 100c Management Card Port (Optional)
9. System Fan
10. 365W Power Supply



### Rear View:

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

## What's New

The HP ProLiant ML110 G5 is now available with higher performance processors (quad-core up to 3.0GHz and dual-core up to 3.16GHz) resulting in better processing power and increased productivity for the growing businesses.

### Overview

### At A Glance

- **Processor:**
  - Intel® Xeon® processor 3300 series
  - Intel® Xeon® processor 3200 series
  - Intel® Xeon® processor 3100 series
  - Intel® Core™ 2 Duo processor 7000 series
  - Intel® Pentium® processor 2000 series
  - Intel® Celeron® processor 400 series
- **Memory:**
  - Four (4) DIMM slots
  - 1 GB Standard/8GB Maximum of PC2-6400 Unbuffered DDR2 ECC 800 MHz
- **Storage Controller:**
  - SATA Models: Integrated 6 ports SATA controller with embedded RAID (4 ports available for hard disks)  
NOTE: Transfer rate: 3 Gb/s SATA.
  - SAS Models: HP SC40Ge Host Bus Adapter with RAID 0, 1 support, FIO  
NOTE: When using the SC40Ge with SATA hard drives, 1.5G SATA hard drives are required.  
NOTE: Transfer rate: 3 Gb/s SATA.
- **Internal Drive Support:**
  - 4 HDD Support:
    - Internal SAS storage capacity of up to 1.8TB (4 x 450GB 3.5" SAS drives)
    - Internal SATA storage capacity of up to 8.0TB (4 x 2TB 3.5" SATA drives)
- **Network Controller:**
  - Embedded NC105i PCI Express Gigabit Ethernet Server Adapter
- **Expansion Slots:**
  - Slot 1: PCI 32-bit/33MHz at 3.3V
  - Slot 2: PCI-Express x8 connector with x1 link
  - Slot 3: PCI-Express x8 connector with x1 link
  - Slot 4: PCI-Express x8 connector with x8 link
- **USB 2.0 Ports:**
  - Eight (8) USB 2.0: 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 ML110 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 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 their own warranty. For more information, visit [www.hp.com/go/warranty](http://www.hp.com/go/warranty).

### Standard Features

#### Processor

One of the following depending on Model

#### Quad-Core Processors

Intel® Xeon® processor X3370 (3.00 GHz, 95W, 1333MHz FSB, 12MB)

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

Intel® Xeon® processor X3360 (2.83 GHz, 95W, 1333MHz FSB, 12MB)

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

Intel® Xeon® processor X3330 (2.66 GHz, 95W, 1333MHz FSB, 6MB)

Intel® Xeon® Processor X3220 (2.40 GHz, 95W, 1066MHz FSB, 8MB)

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

Intel® Xeon® Processor X3210 (2.13 GHz, 95W, 1066MHz FSB, 8MB)

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

#### Dual-Core Processors

Intel® Xeon® processor E3120 (3.16 GHz, 65W, 1333MHz FSB, 6MB)

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

Intel® Xeon® processor E3110 (3.00 GHz, 65W, 1333MHz FSB, 6MB)

Intel® Core™ 2® processor E7400 (2.80 GHz, 65W, 1066MHz FSB, 3MB)

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

Intel® Pentium® processor E2160 (1.80 GHz, 65W, 800MHz FSB, 1MB)

#### Single-Core Processors

Intel® Celeron® processor 440 (2.0 GHz, 35W, 800MHz FSB, 512KB)

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

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#### Cache Memory

One of the following depending on Model

12 MB Level 2 cache - Xeon X3370, X3360

8 MB Level 2 cache - Xeon X3220, X3210

6 MB Level 2 cache - Xeon X3330, E3120, E3110

3 MB Level 2 cache - Core2 E7400

1 MB Level 2 cache - Pentium E2160

512KB Level 2 cache - Celeron 440

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# QuickSpecs

## HP ProLiant ML110 Generation 5 (G5)

### Standard Features

<b>Memory</b>	Type	PC2-6400 unbuffered DDR2 ECC 800MHz
	Standard	1 GB
	Maximum	8 GB

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<b>Network Controller</b>	Embedded NC105i PCI Express Gigabit Ethernet Server Adapter
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Expansion Slots #	Technology	Bus Width***	Connector Width	Bus Number*	Device Number**	Form Factor	Notes
1	PCI	32-bit	N/A	0	30	Full height slot	33MHz/3.3V
2	PCIe	X1	X8	0	28	Full height slot	
3	PCIe	X1	X8	2	28	Full length, full height slot	
4	PCIe	X8	X8	0	1	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)

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<b>Storage Controller</b>	SATA Models	Integrated 6 ports SATA controller with embedded RAID (4 ports available for Hard Disks) NOTE: Transfer rate: 3 Gb/s SATA.
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<b>Storage</b>	Optical Drive	SATA DVD-ROM Drive
	Hard Drives	(SATA Model only) 160GB SATA 7200 rpm Drive

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<b>Maximum Internal Storage</b>	Type	
	Non-Hot Plug SAS	1.8TB (4 x 450GB)
	Non-Hot Plug SATA	8.0TB (4 x 2TB)

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# QuickSpecs

## HP ProLiant ML110 Generation 5 (G5)

### 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))
		NOTE: Internal USB ports are optimal for the attachment of HP USB DAT Tape Drives NOTE: 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) Management	1 HP ProLiant 100 G5 Lights-Out 100c Remote Management port (Optional)	

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Graphics	32MB shared supporting 1600 x 1200 x 16M 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 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.
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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.