

### Overview

#### Models

##### PC3-12800 (DDR3-1600) ECC Unbuffered DIMMs

	Workstations Supported	Part Number
HP 2GB (1x2GB) DDR3-1600 ECC RAM	Z1, Z220 CMT/SFF, Z420, Z620, Z820	A2Z47AA
HP 4GB (1x4GB) DDR3-1600 ECC RAM	Z1, Z220 CMT/SFF, Z420, Z620, Z820	A2Z48AA
HP 8GB (1x8GB) DDR3-1600 ECC RAM	Z1, Z210 CMT/SFF, Z220 CMT/SFF, Z420	A2Z50AA

##### PC3-12800 (DDR3-1600) ECC Registered DIMMs

HP 4GB (1x4GB) DDR3-1600 ECC Registered RAM	Z620, Z820	A2Z49AA
HP 8GB (1x8GB) DDR3-1600 ECC Registered RAM	Z620, Z820	A2Z51AA
HP 16GB (1x16GB) DDR3-1600 ECC Registered RAM	Z820	A2Z52AA

##### PC3-10600 (DDR3-1333) ECC Load Reduced DIMMs

HP 32GB (1x32GB) DDR3-1333 ECC Load Reduced RAM	Z820	A2Z53AA
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##### PC3-10600 (DDR3-1333) ECC Unbuffered DIMMs

HP 1GB (1x1GB) DDR3-1333 ECC RAM	Z210 CMT/SFF, Z400, Z600, Z800	FX698AA
HP 2GB (1x2GB) DDR3-1333 ECC RAM	Z210 CMT/SFF, Z400, Z600, Z800	FX699AA
HP 4GB (1x4GB) DDR3-1333 ECC RAM	Z210 CMT/SFF, Z400, Z600, Z800	NL797AA

##### PC3-10600 (DDR3-1333) ECC Registered DIMMs

HP 4GB (1x4GB) DDR3-1333 ECC Registered RAM	Z600, Z800	FX621AA
HP 8GB (1x8GB) DDR3-1333 ECC Registered RAM	Z600, Z800	FX622AA

##### PC3-8500 (DDR3-1066) ECC Registered DIMMs

HP 16GB (1x16GB) DDR3-1066 ECC Registered RAM	Z800	NL674AA
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### Introduction

Boost the capabilities of your HP Workstation and keep it performing reliably with HP DDR3 memory. Upgrading your memory is a cost-effective way to improve system performance when insufficient memory and hard drive paging is slowing your applications down.

Today's workstation architectures offer flexibility and power because of operating system innovation, multiple core processing, and 64-bit processing, but these benefits may require increased system memory for effective support. For example, Microsoft suggests a minimum of 1GB of system memory as a basic recommended requirement for Microsoft Windows 7.

Sizing your memory correctly should give these innovations the space they need to perform effectively, leaving enough free space for you to run whatever configuration of applications you require and to run your largest data set without having to page to the hard drive (which seriously hinders performance), and should have enough headroom for growth in the future. In workstations that have a large number of DIMM slots, you can achieve larger memory configurations at a lower cost by filling more slots with lower-capacity memory modules.

Many workstation-class chipsets require DDR3 memory which also has Error Correcting and Checking (ECC) capabilities. ECC is a technology that allows for the correction of single-bit memory errors. These errors could otherwise corrupt a data set and introduce hidden errors or even system that many users would find unacceptable.

### Overview

When adding memory, it is important to use comparable DIMMs to those already installed. Adding faster DIMMs will increase the amount of memory but system memory will still run at the speed of the slowest DIMM.

Because of the continuous development and enhancement of high-performance software applications and operating systems, the minimum memory requirements are increasing with each new software version. Therefore, to maintain the same level of system performance, it is recommended that customers add more memory when they buy new software or upgrade to newer versions of software.

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### Key Benefits

- Faster start-up times with fewer delays during routine operations
  - More programs running simultaneously
  - Easy toggling between several open applications
  - Rigorous supplier qualification processes for ensured quality
  - Thoroughly tested by HP for high reliability
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### Compatibility

See Models object for compatibility.

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### Service and Support

Your Option Limited Warranty is a one (1) year (HP Option Limited Warranty Period) parts replacement warranty on any HP-branded or Compaq-branded options (HP Options). If your HP Option is installed in an HP Hardware Product, HP may provide warranty service either for the HP Option Limited Warranty Period or the remaining Limited Warranty Period of the HP Hardware Product in which the HP Option is being installed, whichever period is the longer but not to exceed three (3) years from the date you purchased the HP Option.

### Technical Specifications

<b>DDR Memory DIMMs</b>	<b>Dimensions</b>	5.25 x 1.2 x .3 in (13.3 x 3 x .8 cm)
	<b>Weight</b>	1.1 oz (31.2 g)

Operating Systems supported: All supported Windows 7 versions, Windows Vista Business 64, Windows Vista Home Basic 32, Windows XP Professional or Windows XP Home 32. No driver is required for this device. Native support is provided by the operating system.

**NOTE:** Windows 7 systems may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows software and take full advantage of Windows 7 functionality. See <http://www.microsoft.com/windows/windows-7/> for details.

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