

### Overview

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### Models

#### PC2-6400 (DDR2-800) Memory DIMMs

HP 512-MB PC2-6400 (DDR2 800 MHz) DIMM	AH056AA
HP 1-GB PC2-6400 (DDR2-800) DIMM	AH058AA
HP 2-GB PC2-6400 (DDR2 800 MHz) DIMM	AH060AA

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#### PC2-6400 (DDR2-800) Memory SODIMMs for the dc7800 Ultra-slim Desktop

HP 512-MB PC2-6400 (DDR2 800 MHz) SODIMM	GM253AA
HP 1-GB PC2-6400 (DDR2 800 MHz) SODIMM	GM254AA
HP 2-GB PC2-6400 (DDR2 800 MHz) SODIMM	GV576AA

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### Introduction

Maximize your Business PC performance with HP Memory. Upgrading your memory is a cost-effective way to boost your system performance without having to upgrade your processor.

A common perception is that upgrading to a faster processor will improve overall system performance, however for systems with insufficient memory, a faster processor will not result in higher overall performance. In fact, adding memory is the easiest way to boost system performance; and it's more cost effective than upgrading your processor. Random Access Memory (RAM) temporarily stores information from your operating system, and applications and data that are in current use. This allows your processor to easily access the critical information that makes your programs run. More RAM allows you to run more programs simultaneously and makes it easier to toggle between programs.

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, you should add more memory when you buy new software or upgrade to newer versions of software.

#### Dual Channel configuration

Although memory performance industry standards have improved, they lag behind the rapid increase in processor speeds and therefore have become a system bottleneck. HP Desktops feature motherboards designed with two memory channels instead of a single channel.

Dual channel memory configuration helps minimize the bottleneck by utilizing the theoretical bandwidth of two memory modules instead of one, thus reducing system latencies and significantly improving system performance.

**NOTE:** Dual Channel is only supported when the system is configured with DDR2 symmetric memory (i.e. 2X512).

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### Overview

#### 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
  - Competitively priced
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#### Compatibility

See table in Technical Specifications section for compatibilities.

PC2-6400 (DDR2-800) Memory DIMMs have been qualified for use on all PC2-5300 (DDR2-667), PC2-4200 (DDR2-533) and PC2-3200 (DDR2-400) based platforms.

**NOTE:** Not all models are available in all regions.

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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.

