

### Overview

### Models

	Workstations Supported	Part Number
<b>DDR3-1600 ECC Unbuffered DIMMs</b>		
HP 2GB (1x2GB) DDR3-1600 ECC RAM	Z1, Z230 CMT/SFF, Z420, Z620, Z820	A2Z47AA
HP 4GB (1x4GB) DDR3-1600 ECC RAM	Z1, Z230 CMT/SFF, Z420, Z620, Z820	A2Z48AA
HP 8GB (1x8GB) DDR3-1600 ECC RAM	Z1, Z230 CMT/SFF, Z420	A2Z50AA
HP 2GB (1x2GB) DDR3-1600 nECC RAM	Z1	B1S52AA
HP 4GB (1x4GB) DDR3-1600 nECC RAM	Z1, Z230 CMT/SFF	B1S53AA
HP 8GB (1x8GB) DDR3-1600 non-ECC RAM	Z230 CMT/SFF	B1S54AA
<b>DDR3-1600 ECC Registered DIMMs</b>		
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	Z620, Z820	A2Z52AA
HP 32GB DDR3-1333 ECC Load Reduced (LR) RAM	Z820	A2Z53AA
<b>DDR3-1866 ECC Unbuffered DIMMs</b>		
HP 2GB (1x2GB) DDR3-1866 ECC RAM	Z1 G2, Z420, Z620, Z820	E2Q90AA
HP 4GB (1x4GB) DDR3-1866 ECC RAM	Z1 G2, Z420, Z620, Z820	E2Q91AA
HP 8GB (1x8GB) DDR3-1866 ECC RAM	Z1 G2, Z420, Z620, Z820	E2Q93AA
HP 4GB (1x4GB) DDR3-1866 nECC RAM	Z1 G2	E5Z83AA
<b>DDR3-1866 ECC Registered DIMMs</b>		
HP 4GB (1x4GB) DDR3-1866 ECC Reg RAM	Z620, Z820	E2Q92AA
HP 8GB (1x8GB) DDR3-1866 ECC Reg RAM	Z620, Z820	E2Q94AA
HP 16GB (1x16GB) DDR3-1866 ECC Reg RAM	Z620, Z820	E2Q95AA
32GB DDR3-1333 ECC Load Reduced (LR) RAM	Z820	F1F33AA
<b>DDR4-2133 ECC Registered DIMMs</b>		
4GB DDR4-2133 ECC Registered RAM	Z440, Z640, Z840	J9P81AA
8GB DDR4-2133 ECC Registered RAM	Z440, Z640, Z840	J9P82AA
16GB DDR4-2133 ECC Registered RAM	Z440, Z640, Z840	J9P83AA
32GB DDR4-2133 ECC Load Reduced (LR) RAM	Z640, Z840	J9P84AA

### Technical Specifications

#### Introduction

Boost the capabilities of your HP Workstation and improve system performance and application responsiveness with low-cost, high-performance DDR3 and DDR4 memory from HP.

##### **Work smarter**

Improve start-up times with fewer delays during routine operations, run more programs simultaneously, and easily toggle between several open applications.

##### **Benefit from integrated ECC**

Help avoid errors that can corrupt data sets and introduce system issues with Error Checking and Correcting technology that corrects single-bit memory errors.

##### **Get HP-tested reliability**

Ensure all of your memory characteristics match by upgrading with HP-branded memory that's been tested at the component level and to ensure seamless system-level integration with HP products

##### **Supported by HP**

Protect your investment with a warranty that is backed by the same award-winning HP service and support you get for your workstation.<sup>1</sup>

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**NOTE:** 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 Model compatibility list on Pg.1.
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#### Service and Support

<sup>1</sup> Your Option Limited Warranty is a one (1) year parts replacement limited 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

### Technical Specifications

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.

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<b>DDR4 Memory DIMMs</b>	<b>Dimensions (WxHxD)</b>	5.26 x 1.24 x 0.29in (13.35 x 3.14 x 0.73cm)
	<b>Weight</b>	0.87oz (24.7g)
<b>DDR3 Memory DIMMs</b>	<b>Dimensions (WxHxD)</b>	5.26 x 1.20 x 0.30in (13.35 x 3.05 x 0.755cm)
	<b>Weight</b>	1.1oz (31.2g)

Operating Systems supported: All supported versions of Microsoft Windows 7, 8 and 8.1. No driver is required for this device. Native support is provided by the operating system.

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### Summary of Changes

<b>Date of change:</b>	<b>Version History:</b>		<b>Description of change:</b>
<b>August 1, 2012</b>	From Version 1 to 2	Changed	Changes made throughout the entire QuickSpec
<b>July 1, 2014</b>	From v2 to v3	Changed	Updates throughout all Quickspecs document
<b>April 1, 2014</b>	From v3 to v4	Changed	Updates throughout all document

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