Overview

Models	Workstations Supported	Part Number
DDR3-1600 ECC Unbuffered DIMMs		
HP 4GB (1x4GB) DDR3-1600 nECC RAM	Z1, Z230 CMT/SFF	B1S53AA
HP 8GB (1x8GB) DDR3-1600 non-ECC RAM	Z230 CMT/SFF	B1S54AA
DDR3-1866 ECC Unbuffered DIMMs		
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
DDR3-1866 ECC Registered DIMMs		
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
DDR4-2133 ECC Registered DIMMs		
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
64GB DDR4-2133 ECC Load Reduced (LR) RAM (4x16GB)	Z640, Z840	M4Z04AA
DDR4-2133 ECC Unbuffered DIMMs		
4GB DDR4-2133 ECC Unbuffered RAM	Z240 SFF/TWR/Z238 MT	N0H86AA
4GB DDR4-2133 non-ECC Unbuffered RAM	Z240 SFF/TWR/Z238 MT	T0E50AA
8GB DDR4-2133 ECC Unbuffered RAM	Z240 SFF/TWR/Z238 MT	N0H87AA
8GB DDR4-2133 non-ECC Unbuffered RAM	Z240 SFF/TWR/Z238 MT	T0E51AA
16GB DDR4-2133 ECC Unbuffered RAM	Z240 SFF/TWR/Z238 MT	N0H88AA
16GB DDR4-2133 non-ECC Unbuffered RAM	Z240 SFF/TWR/Z238 MT	T0E52AA
DDR4-2133 ECC SODIMMs		
4GB DDR4-2133 non-ECC SODIMM RAM	Z1 G3	T0H89AA
8GB DDR4-2133 ECC SODIMM RAM	Z1 G3	T0H92AA
8GB DDR4-2133 non-ECC SODIMM RAM	Z1 G3	T0H92AA
16GB DDR4-2133 ECC SODIMM RAM	Z1 G3	T0H93AA
16GB DDR4-2133 non-ECC SODIMM RAM	Z1 G3	T0H91AA
DDR4-2400 ECC Registered DIMMs		
HP 4GB (1x4GB) DDR4-2400 ECC Reg RAM	Z440, Z640, Z840	T9V38AA
HP 4GB (1x4GB) DDR4-2400 ECC RAM	Z2 Mini	1CA77AA
HP 4GB (1x4GB) DDR4-2400 non-ECC RAM	Z2 Mini	1CA78AA
HP 8GB (1x8GB) DDR4-2400 ECC Reg RAM	Z440, Z640, Z840	T9V39AA
HP 8GB (1x8GB) DDR4-2400 ECC RAM	Z2 Mini	1CA79AA
HP 8GB (1x8GB) DDR4-2400 non-ECC RAM	Z2 Mini	1CA80AA
HP 16GB (1x16GB) DDR4-2400 ECC Reg RAM	Z440, Z640, Z840	T9V40AA

Overview

HP 16GB (1x16GB) DDR4-2400 ECC RAM	Z2 Mini	1CA75AA
HP 16GB (1x16GB) DDR4-2400 non-ECC RAM	Z2 Mini	1CA76AA
HP 32GB (1x32GB) DDR4-2400 ECC Reg RAM	Z640, Z840	T9V41AA
HP 64GB (1x64GB) DDR4-2400 ECC LR RAM	Z640, Z840	T9V42AA
HP 128GB (1x128GB) DDR4-2400 ECC LR RAM	Z640, Z840	T9V43AA

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.[1]

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.

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

Technical Specifications

Compatibility
- See Model compatibility list on Pg.1.

Service and Support
[1] 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 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.

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

Operating Systems supported: All supported versions of Microsoft Windows 7, 8, 8.1, and 10. No driver is required for this device. Native support is provided by the operating system.

Summary of Changes

Date of change:	Version History:		Description of change:
August 1, 2012	From v1 to v2	Changed	Changes made throughout the entire QuickSpec
July 1, 2014	From v2 to v3	Changed	Updates throughout all Quickspecs document
April 1, 2014	From v3 to v4	Changed	Updates throughout all document
July 1, 2016	From v4 to v5	Added	DDR4-2400 memory offerings
		Removed	All DDR3-1600 ECC registered DIMMs, and most DDR3-1600 ECC Unbuffered DIMMs
June 1, 2017	From v5 to v6	Added	16GB, 8GB & 4GB DDR4-2400 non-ECC & ECC RAM for the Z2 Mini

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