## Overview

## DDR3 and DDR4 Memory for HP Business Notebooks

## Models

**PC3-10600 Memory SODIMMs**

| | |
|---|---|
| HP 4 GB DDR3L 1600 1.35V SODIMM | H6Y75AA |
| HP 8 GB DDR3L 1600 1.35V SODIMM | H6Y77AA |

**DDR4 2400 MT/s Memory SODIMM** *New!*

| | |
|---|---|
| HP 4GB 2400MHz DDR4 Memory | Z4Y84AA |
| HP 8GB 2400MHz DDR4 Memory | Z4Y85AA |
| HP 8GB DDR4 2400 MT/s ECC SODIMM | 1VW64AA |
| HP 16GB 2400MHz DDR4 Memory | Z4Y86AA |
| HP 16GB DDR4 2400 MT/s ECC SODIMM | 1VW65AA |

## Introduction

Optimize your HP Business Notebook performance with HP Memory.

Random Access Memory (RAM) temporarily stores information from your operating system, 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.

Upgrading your memory is an easy, cost-effective way to improve your system performance. Additional memory can also help extend the life of your HP notebook by supporting operating systems and applications that require increased memory bandwidth. When adding memory, it is important to use comparable SODIMMs to those already installed. Adding faster SODIMMs will increase the amount of memory, but system memory will still run at the speed of the slowest SODIMM.

**Triple-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. Triple-channel memory configuration helps reduce system latencies and significantly improves system performance.

**Why HP Memory?**
HP rigorously tests and qualifies all suppliers for ensured quality so that memory works seamlessly with HP products. Buying HP-branded memory ensures all memory characteristics match when upgrading. Protect your investment with certified and warranted HP Memory.

## Key Benefits

More memory helps:

- Boost system performance
- Enable faster start-up times with fewer delays during routine operations
- Support simultaneous opening of large files (presentations, spreadsheets, and graphics, etc) for review and discussion
- Enable easy toggling between several open applications
- Avoid system downtime, data losses, and financial impact caused by memory failures
- Minimize frustration when fast-evolving software requires increasing memory bandwidth

Why HP-branded memory:

- Rigorous supplier qualification processes for ensured quality
- Thorough testing by HP for high reliability

# QuickSpecs

## Overview

- Helps ensure all memory characteristics match when upgrading

---

## Compatibility (model availability varies by region)

| | | | | |
|---|---|---|---|---|
| HP 4 GB DDR3L 1600 1.35V SODIMM | <ul><li>HP ProBook 430 G1, 440 G0, 450 G0, 470 G0, 445 G1, 455 G1, 4230s, 4330s, 4331s, 4340s, 4341s, 4430s, 4431s, 4435s, 4436s, 4530s, 4535s, 4445s, 4446s, 4440s, 4441s, 4540s, 4545s, 4740s, and 4730s Notebook PC</li><li>HP ProBook 5330m Notebook PC</li><li>HP ProBook 6360b, 6460b, 6465b, 6470b, 6475b, 6560b, 6565b, and 6570b Notebook PC</li><li>HP Envy Pro Ultrabook PC</li><li>HP EliteBook Folio 9470m Notebook PC</li><li>HP EliteBook Revolve 810 G1</li><li>HP EliteBook 2170p, 2560p, 2570p, 2760p, 8460p, 8470p , 8560p, and 8570p Notebook PC</li><li>HP EliteBook 8460w, 8470w, 8560w, 8570w, 8760w and 8770w Mobile Workstations</li><li>HP 3115m, and 3125 Notebook PC</li><li>HP 242 G1, 250 G1, 255 G1, 240, 245, 450, 455, 650, 655</li><li>HP ProBook 6360t Mobile Thin Client</li><li>HP mt20, mt40, and mt41 Thin Client</li></ul> | Up to 1600 MT/s | 204 | Single |
| HP 8 GB DDR3L 1600 1.35V SODIMM | <ul><li>HP ProBook 430 G1, 440 G0, 450 G0, 470 G0, 445 G1, and 455 G1 Notebook PC</li><li>HP ProBook 6360b, 6460b, 6465b, 6470b, 6475b, 6560b, 6565b, and 6570b Notebook PC</li><li>HP Envy Pro Ultrabook PC</li><li>HP EliteBook Folio 9470m Notebook PC</li><li>EliteBook Revolve 810 G1</li><li>HP EliteBook 2170p, 2560p, 2750p, 2760p, 8460p, 8470p , 8560p, and 8570p Notebook PC</li><li>HP EliteBook 8460w, 8470w, 8560w, 8570w, 8760w, and 8770w Mobile Workstations</li><li>HP 242 G1, 250 G1, 255 G1</li><li>HP ProBook 6360t Mobile Thin Client</li></ul> | Up to 1600 MT/s | 204 | Single |

| Product | Compatibility | Transfer Rate | # of Pins | Motherboard Keynotch |
|---|---|---|---|---|
| HP 4 GB DDR4 2400 Mhz SODIMM | HP ProBook 400 G3, G4 Series, 600 G2, G3 Series, HP EliteBook 700 G4, 800 G3, G4 Series, HP ZBook 15, 17 G3, G4,  HP ZBook Studio G3, G4 | PCA- 2400 | 260 | single |
| HP 8 GB DDR4 2400 Mhz | HP ProBook 400 G3, G4 Series, 600 G2, G3 Series, HP EliteBook 700 G4, 800 G3, G4 Series, HP ZBook 15, 17 G3, | PCA- 2400 | 260 | single |

## Overview

| SODIMM | G4,  HP ZBook Studio G3, G4 | | | |
|---|---|---|---|---|
| HP 8 GB DDR4 2400 MT/s ECC SODIMM | HP ZBook 15, 17 G3, G4,  HP ZBook Studio G3, G4 Mobile Workstations (with Xeon processors) | PCA- 2400 | 260 | single |
| HP 16 GB DDR4 2400 Mhz SODIMM | HP ProBook 400 G3, G4 Series, 600 G2, G3 Series, HP EliteBook 700 G4, 800 G3, G4 Series, HP ZBook 15, 17 G3, G4,  HP ZBook Studio G3, G4 | PCA- 2400 | 260 | single |
| HP 16 GB DDR4 2400 MT/s ECC SODIMM | HP ZBook 15, 17 G3, G4, HP ZBook Studio G3, G4 Mobile Workstations (with Xeon processors) | PCA- 2400 | 260 | single |

**NOTE:** Maximum memory capacities assume Windows 64-bit operating systems or Linux. With Windows 32-bit operating systems, memory above 3 GB may not all be available due to system resource requirements. Due to system limitations, DDR3-1600 memory will only be supported at DDR3-1333.

DDR4-2400 MHz is backwards compatible with 2133 MHz platforms.  However, DDR4-2400 MHz will run at 2133 MHz if platform chipset does not support 2400 MHz.

## Service and Support

HP Memory has a one-year limited warranty or the remainder of the warranty of the HP product in which it is installed (not to exceed three years). Technical support is available seven days a week, 24 hours a day, as well as online support forums. Certain restrictions and exclusions apply.

## Technical Specifications

## Specifications

| | Dimensions | 2.66 x 0.78 x 0.1 in (67.75 x 20 x 2.45 mm) |
|---|---|---|

© Copyright 2017 HP Development Company, L.P.
The information contained herein is subject to change without notice.

[1] HP Business Notebooks and Mobile Workstations that have an Intel® Core™ i5 Dual Core processor on the system board do not support the use of an 8 GB 1333 PC3-10600 memory module. Models affected include: HP EliteBook 8440p Notebook PC, HP EliteBook 8440w Mobile Workstation, HP EliteBook 8540p Notebook PC, HP EliteBook 8540w Mobile Workstation, and HP EliteBook 8740w Mobile Workstation.

The information contained herein is subject to change without notice.. The only warranties for HP products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

## Summary of Changes

| Date of change | Version 1 to 2 | | Description of change |
|---|---|---|---|
| March 6, 2015 | V9 to V10 | Removed | MT/s and changed data rate to transfer rate<br>Removed EOL items H2P63AA, H2P64AA, and H2P65AA |
| December 15, 2015 | V10 to V11 | Added | HP 4 GB DDR4 2133 MT/s SODIMM - T7B76AA<br>HP 8 GB DDR4 2133 MT/s SODIMM - T7B77AA<br>HP 4 GB DDR4 2133 MT/s ECC SODIMM – V1D58AA<br>HP 8 GB DDR4 2133 MT/s ECC SODIMM – V1D59AA |
| June 24, 2016 | V11 to 12 | Added | HP 16 GB DDR4 2133 MT/s SODIMM - X2E91AA |
| October 13, 2016 | V12 to 13 | Updated | Added HP 4GB 2400MHz DDR4 Memory product, part number Z4Y84AA; Added HP 8GB 2400MHz DDR4 Memory product, part number Z4Y85AA; Added HP 16GB 2400MHz DDR4 Memory product, part number Z4Y86AA |
| April 24, 2017 | V13 to 14 | Removed | HP 2 GB DDR3L 1600 1.35V SODIMM<br>DDR4 2133 MT/s Memory SODIMM<br>HP 4 GB DDR4 2133 MT/s SODIMM<br>HP 8 GB DDR4 2133 MT/s SODIMM<br>HP 16 GB DDR4 2133 MT/s SODIMM<br>HP 8 GB DDR4 2133 MT/s ECC SODIMM<br>HP 16 GB DDR4 2133 MT/s ECC SODIMM |
| May 16, 2017 | V14 to 15 | Added | Compatibility section : disclaimer added |