

## CRUCIAL DDR4 LAPTOP MEMORY



### Upgrade and go!

# Boost your laptop speed in minutes with Crucial RAM

There's an easy cure for a slow computer: more memory. Designed to help your system run faster and smoother, Crucial® DDR4 Laptop Memory is one of the easiest and most affordable ways to improve performance. Crucial even has modules designed specifically for Mac® systems¹. Load programs faster. Increase responsiveness. Run data-intensive applications with ease and increase your desktop's multitasking capabilities.







#### Make everything on your computer faster

Memory is a component in your computer that enables short-term data access, which your laptop relies on for moment-to-moment operations such as loading apps, browsing the web, or editing a spreadsheet. Installing more memory in a slow laptop is the easiest way to improve system performance quickly.

#### Multitask with ease

If you're like us, you use your computer to do lots of things at once. You might be editing a document while also looking at pictures and browsing the internet. This naturally leads to a performance problem: every app you're running requires memory and competes for a limited pool of resources. Overcome this by installing high-density modules in each memory slot on your laptop for seamless multitasking.

#### Install with ease - no computer skills required

With just a screwdriver, your owner's manual, and a few minutes of time, you can install memory – no computer skills necessary. Just watch one of our three-minute install videos, and we'll walk you step-by-step through the process. Don't pay a computer shop to do something you can do yourself in minutes!

#### Maximize the value of your system

At a fraction of the cost of a new system, a memory upgrade is one of the most affordable ways to increase performance. Get more out of your laptop by giving it the resources it needs to perform.

#### Upgradable Mac®? We've got your RAM.

Take the guesswork out of upgrading your Mac<sup>1</sup> with Crucial<sup>®</sup> memory for Mac systems. Since Apple<sup>®</sup> computers have very specific memory requirements, it's important to use memory that's engineered for your Mac. With more than 25 years of experience manufacturing and developing RAM, Crucial makes adding memory the easiest way to upgrade your Mac.

#### The Micron difference - tested reliability you can trust

As the vertically integrated consumer brand of Micron, Crucial is trusted by millions for reliability, performance, and compatibility. Unlike module assemblers, we are a Micron brand, which means we have a deeper level of engineering collaboration to squeeze every ounce of performance from our products without compromising reliability. Our superior memory products are backed by a limited lifetime warranty<sup>2</sup>, training, documentation, and video assistance, customer support from an experienced sales network, and trusted pricing and inventory consistency. When it comes to memory, don't settle for less.

#### **Available Parts**

Crucial laptop memory is available for nearly every system. View our complete offering at **www.crucial.com.** 

Crucial® DDR4 Laptop Memory*	
Density	4GB, 8GB, 16GB, 32GB
Speed	2400MT/s, 2666MT/s, 3200MT/s
Voltage	1.2V
Pin count	260-pin



<sup>\*</sup>Parts ending with an **M** have been specifically manufactured and tested for compatibility with Mac<sup>®</sup> systems that have upgradeable memory.

<sup>1.</sup> Note that per Apple manufacturer specifications, memory can't be upgraded on (a) many Mac systems made after mid-2012 and (b) retina-based models.

Before upgrading your Mac memory, consult your owner's manual or use one the Crucial Compatibility tools to help to verify that an upgrade to your Mac is nossible.

<sup>2.</sup> Limited lifetime warranty valid everywhere except Germany, where warranty is valid for ten years from date of purchase.