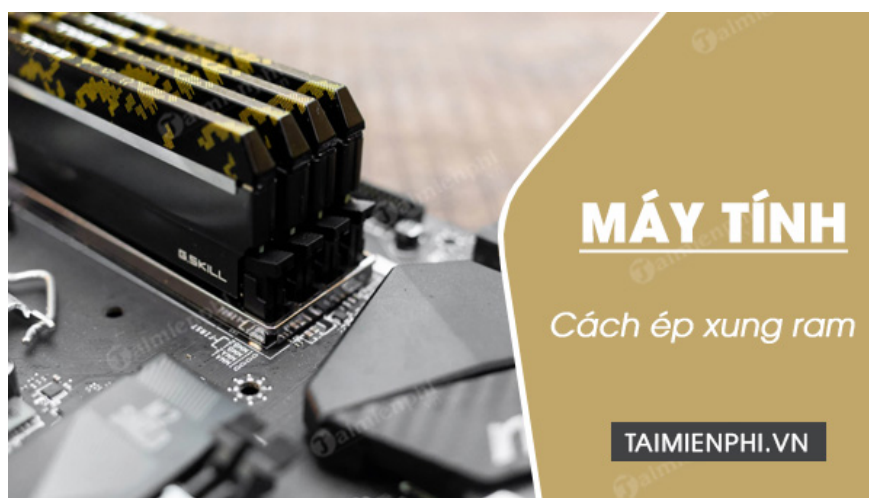


How to overclock computer RAM

There are many ways to overclock your computer's RAM, either through software or manually. Refer to the article below from TipsMake for detailed instructions.

Overclocking your computer's RAM increases memory speed and improves PC performance, resulting in smoother operation and faster task processing.



Simple ways to overclock computer RAM.

Method 1: Overclocking your computer's RAM using XMP

To do this, follow the steps below:

Step 1: First, open the CPU-Z application that you have installed on your computer. Find and note down the following information: DRAM frequency and timing, RAM timing (in the SDP tab), as these are the XMP settings that the BIOS uses.

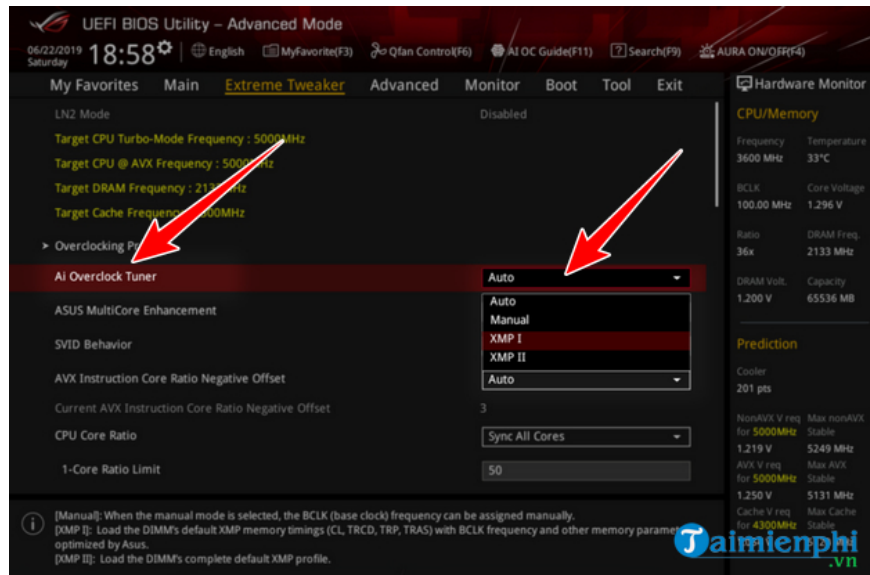
Tip: If you haven't installed CPU-Z yet, you can go [here](#) to download and install the software.

Step 2: In this step, your task is to access the BIOS.

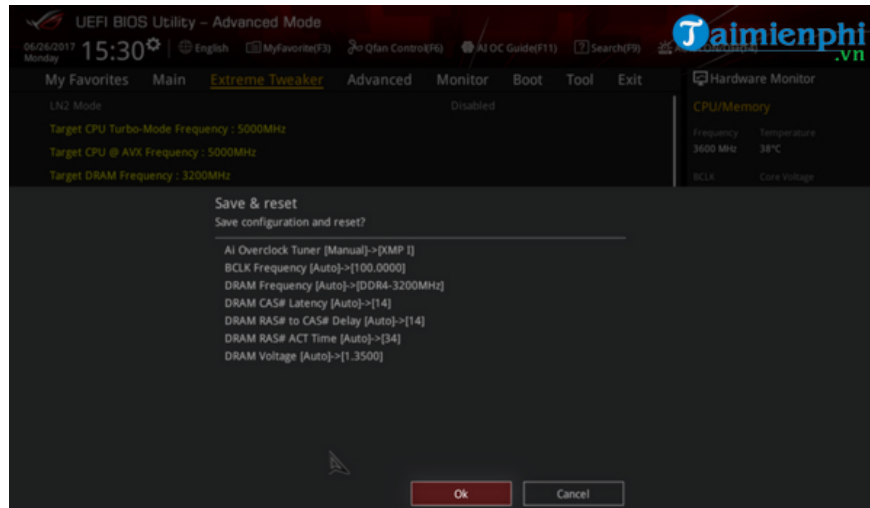
Depending on the computer model, there are different ways to access the BIOS ; you can find more details [here](#).

Once in the BIOS, navigate to **Ai Tweaker** or the motherboard equivalent and set it to **XMP** .

Step 3: Adjust the RAM parameters to match your chosen XMP profile.



Step 4: Finally, save the BIOS changes, restart your computer, and perform a stress test.



Method 2: Manually overclock your computer's RAM.

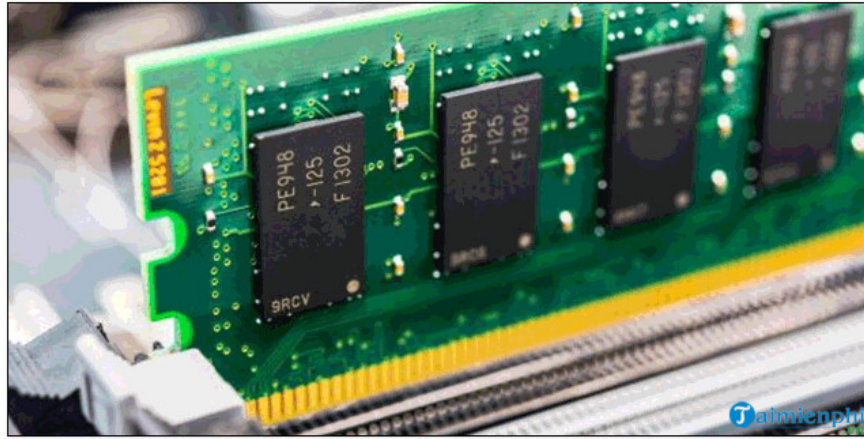
Step 1: Follow the instructions above with XMP and perform a stress test. This step will obtain the following parameters: RAM frequency and timing.

Go back to the BIOS and set the **Ai Tweaker** option to **Manual**. Next, increase the **DRAM voltage** value to **0.015v**.

Step 2: Increase the **CPU VCCIO Voltage** and **CPU System Agent Voltage** by 0.05V (from 1.15V to 1.20V).

Step 3: Next, change the timing (also known as DRAM Timing Control). Here, simply change the three timing settings using the timing values ??you noted in the previous steps.

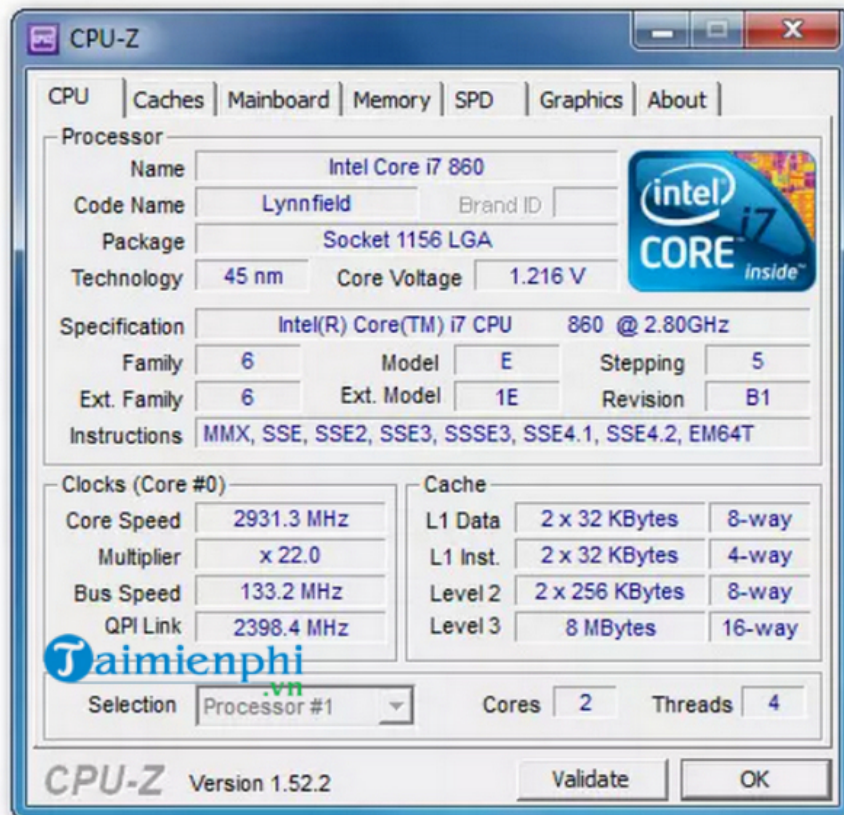
Step 4: Check for stability and repeat the steps.



2. The best RAM overclocking software currently available.

2.1. CPU-Z

CPU-Z is one of the best free overclocking tools and software available today. The software is designed to gather system information such as DRAM frequency and timing, as well as the Timing Table information that the BIOS uses for XMP settings.



Download and install CPU-Z Portable [here](#).

2.2. Memtest86+

Memtest86+ is designed and used to perform stress tests. To download and install Memtest86+, click [here](#).

```
Memtest-86 v4.0a Intel(R) Core(TM) i7 CPU 870 @ 2.93GHz
CPU Clk : 2927 MHz : Pass 6% ##
L1 Cache: 64K 63626 MB/s : Test 38% #####
L2 Cache: 256K 33641 MB/s : Test #3 [Moving inversions, 1s & 0s] Sequential
L3 Cache: 8192K 225138 MB/s : Testing: 268K - 2848M 2848M of 2848M
Memory : 2848M 33656 MB/s : Pattern: 00000000
-----
CPU: 0 1 2 3 : CPUs_Started: 4 CPU_Select: All
State: W : W W : CPUs_Active: 1 CPUs_Found: 4
-----
Time 0:00:27 Iterations: 2 Test_Sel: Std Pass: 0 Errors: 0

Taimienphi
.vn
(ESC)exit (c)configuration (SP)scroll_lock (CR)scroll_unlock
```

2.3. XMP (Extreme Memory Profiles)

XMP is an overclocking technology developed by Intel that users can enable through motherboard firmware or a utility. With XMP, the firmware is allowed to automatically configure DRAM voltage and latency.

The article above from TipsMake has just guided you on how to overclock your computer's RAM. We wish you success.

Besides overclocking RAM, users can also consider overclocking the CPU to improve computer performance and increase productivity.

You finished reading the article "**How to overclock computer RAM**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.