



Installation Guide of Patriot Memory Product

Development	Patriot DRAM PM team
Version	C
Date	Aug, 2026



Product needed:

- Compatible Patriot Memory DRAM module (DDR to DDR5) · Phillips-head screwdriver (Magnetic tip recommended to prevent dropping screws inside your system)

Installation notification:

- Make sure that you are working in a static-safe environment. Remove any plastic bags or papers from your workspace. ·
- **Touch an unpainted metal part of your computer chassis to discharge any static electricity from your body before handling the memory.** · Shut down your system and make sure the power is completely off before unplugging the power cable from your computer. ·
- Discharge residual power by pressing the computer's power button for 3-5 seconds. ·
- Remove your computer's cover. Refer to your owner's manual for detailed instructions.

UDIMM installation step:



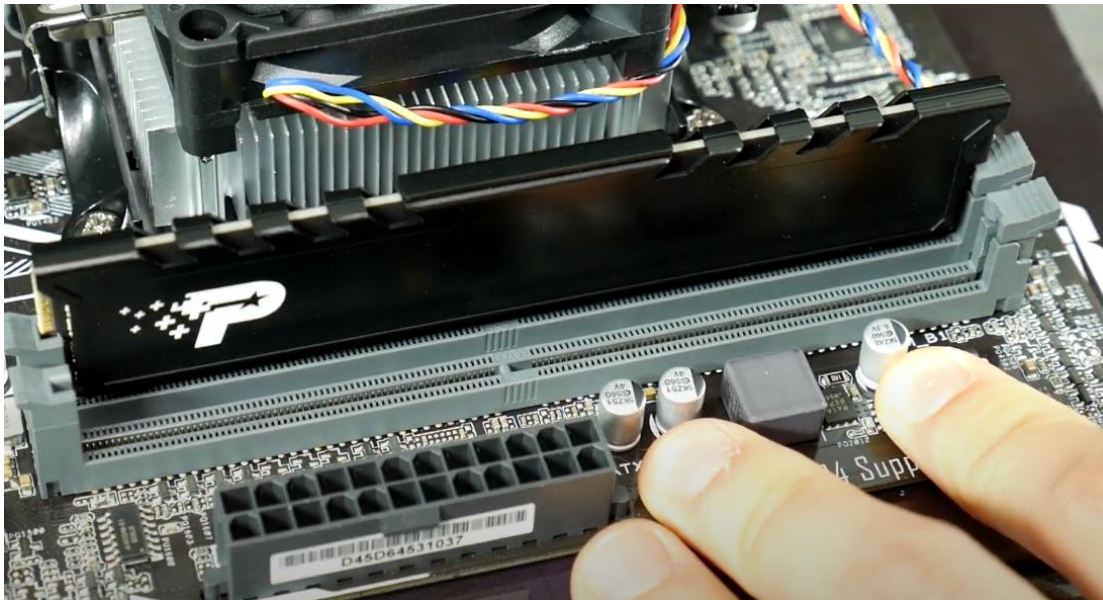
Before grabbing your memory, you'll need to unlock the retention clips on the motherboard's memory socket. Depending on the motherboard, each socket will have either one clip on one end or two clips on both ends. Press the clip(s) outward to open the slot.



There is only one correct way to install a RAM module. Match the notch (cutout) on the bottom edge of the RAM module with the key inside the motherboard slot to ensure correct alignment.



Hold the memory module by its edges (avoid touching the gold pins). Align it with the slot and press down **firmly and evenly on both ends simultaneously**..



You should hear a satisfying "click" as the module seats fully into the slot. The retention clip(s) will automatically snap back into the locked position. Verify that the clips are fully closed. Repeat this process for any additional modules.



SODIMM installation step:



Locate the memory slots. Depending on the laptop's design, you may need to remove an anti-static cover or shield. Please refer to your laptop manufacturer's manual. *(Note: If replacing old memory, gently pull the two metal clips laterally away from the RAM to release it, then pull it out).*



Align the notch on the new SODIMM module with the key in the memory slot. Insert the memory module into the slot firmly at a **30 to 45-degree angle**. Ensure the gold contacts are almost entirely inserted into the slot. Once inserted at an angle, gently press the memory module perfectly flat



downwards toward the motherboard until the side metal retention clips snap into place and lock the module.

FAQ

Is installing DDR4 and DDR5 memory the same?

Yes, the physical installation process is identical. However, please note that DDR4 and DDR5 modules are **NOT interchangeable**. While they share similar lengths, the alignment notch is located in a different position, and they have different pin layouts. You cannot insert a DDR4 module into a DDR5 motherboard, or vice versa.

Can I mix different RAM brands or capacities?

While mixing memory modules from different manufacturers or capacities might work, it is generally **not recommended**. Mixing RAM can lead to system instability, blue screens, or forced operation at the lowest common speed. For optimal performance and stability, always use identical modules from the same kit.

Which slots should I use if I am only installing two sticks of RAM in a motherboard with four slots?

While mixing memory modules from different manufacturers or capacities might work, it is generally **not recommended**. Mixing RAM can lead to system instability, blue screens, or forced operation at the lowest common speed. For optimal performance and stability, always use identical modules from the same kit.

Why is my memory not running at the advertised speed?

All high-performance memory runs at standard JEDEC base speeds out of the box to ensure initial boot compatibility. To achieve the advertised high speeds, you must enter your computer's BIOS/UEFI settings and enable the memory profile (Intel XMP or AMD EXPO).

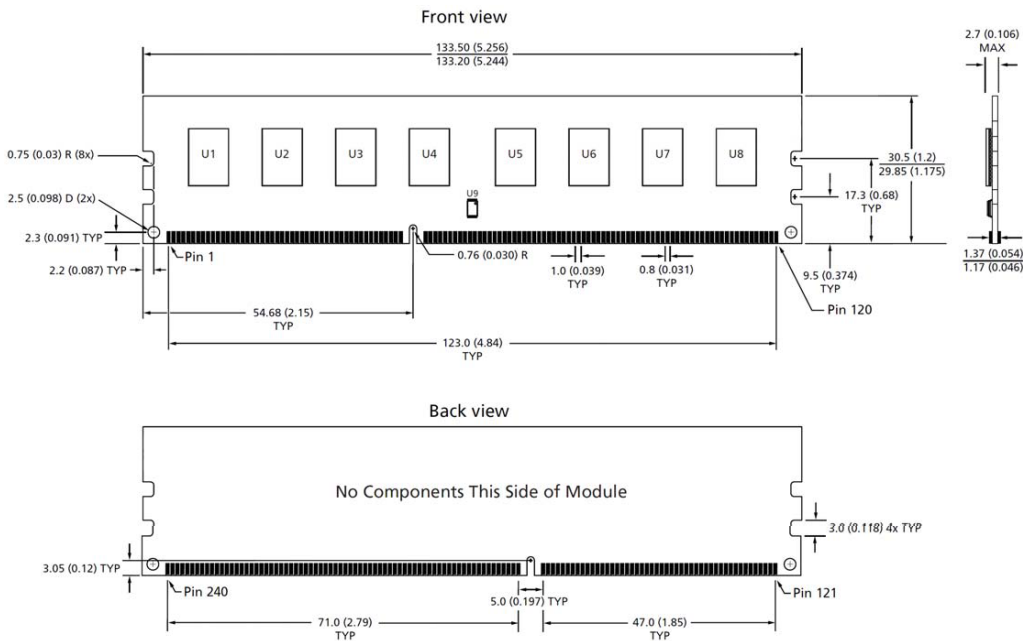


My computer turns on but there is no display after installing new RAM. What should I do?

This is usually caused by the RAM not being seated perfectly. Power off the system, unplug it, and physically remove the RAM. Reinstall it, ensuring you hear a firm "click" on both ends. If the issue persists, try booting with only one stick installed to test if a specific module or slot is causing the issue.

Module Dimensions:

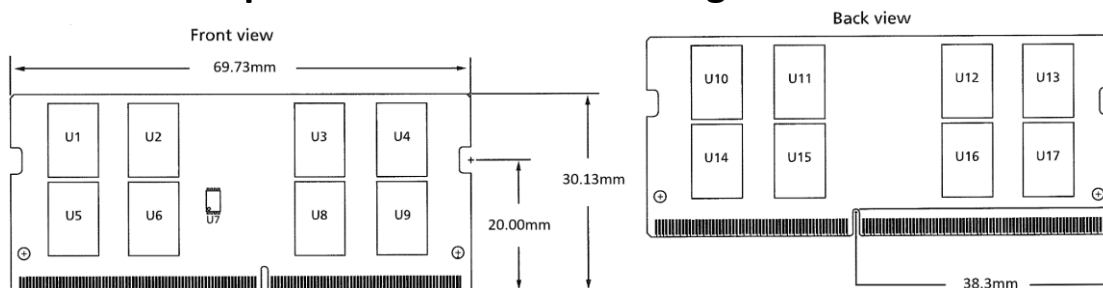
UDIMM Simplified Mechanical Drawing



Note: 1. All dimensions are in millimeters (inches); MAX/MIN or typical (TYP) where noted.

Note: 2. The dimensional diagram is for reference only.

SODIMM Simplified Mechanical Drawing



Note: 1. All dimensions are in millimeters (inches); MAX/MIN or typical (TYP) where noted.

Note: 2. The dimensional diagram is for reference only.