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## Timetec 76

# Timetec 16GB DDR5 4800MHz SODIMM RAM Module User Manual

Model: 76

## 1. INTRODUCTION

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This manual provides essential information for the installation, operation, and maintenance of your Timetec 16GB DDR5 4800MHz PC5-38400 SODIMM Laptop Memory RAM Module. Designed for enhanced performance and multitasking, this module is an ideal upgrade for compatible laptops.

The Timetec DDR5 memory operates at 4800MHz, offering significant speed improvements over previous DDR generations. It features On-die ECC (ODEC) for improved error checking and a Power Management IC (PMIC) for stable power delivery and reduced power consumption.

Extreme Performance

# DDR5 NEW GENERATION POWER

## Blazing Fast Clock Speed

Operating at a staggering 4800MHz, our DDR5 Memory is a speed demon, ensuring data races through your system with unprecedented swiftness. It slashes the time needed to load applications, allowing you to jump straight into work or gaming without delay. Whether it's launching resource-heavy software like graphic design suites or firing up the latest AAA games, expect near-instantaneous response times.

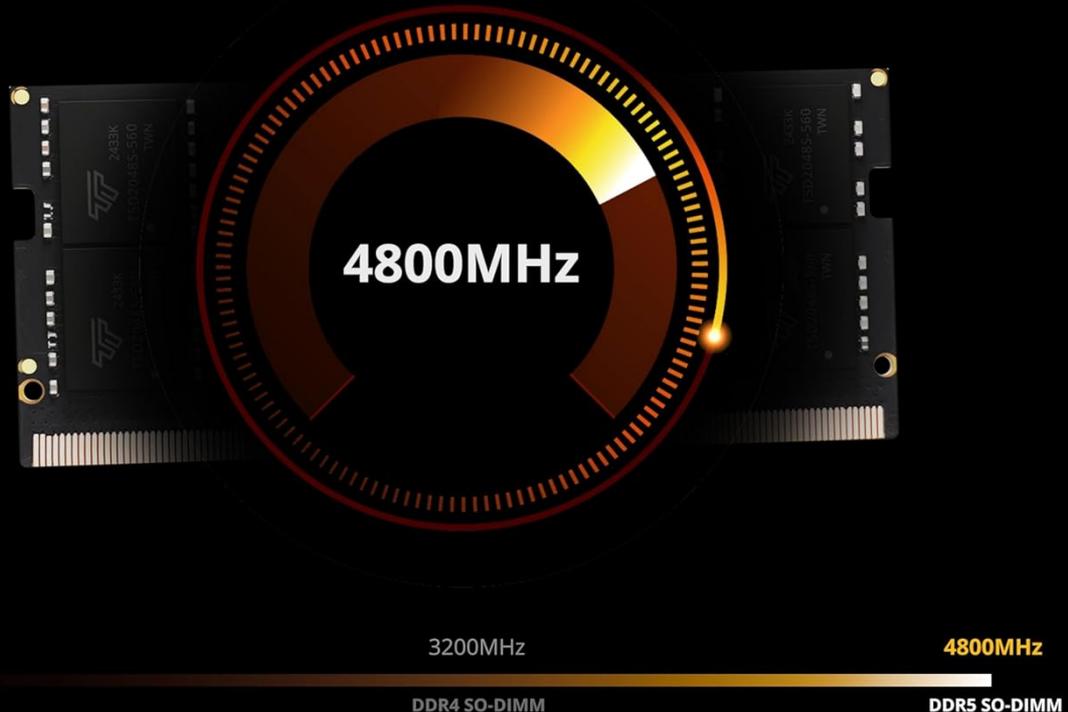


Image 1.1: The Timetec 16GB DDR5 4800MHz SODIMM RAM Module.

## 2. SAFETY PRECAUTIONS

- Always disconnect power and remove the battery from your laptop before installation.
- Discharge static electricity by touching a grounded metal object before handling the RAM module.
- Handle the RAM module by its edges to avoid touching the gold connectors or integrated circuits.
- Refer to your laptop's manufacturer manual for specific memory upgrade instructions and compatibility.

## 3. INSTALLATION GUIDE

Follow these general steps to install your Timetec DDR5 SODIMM module. Specific steps may vary by laptop model.

1. **Prepare Your Laptop:** Shut down your laptop completely, disconnect the power adapter, and remove the battery (if removable).
2. **Access Memory Slots:** Carefully open the laptop's back panel or memory compartment cover. Consult your

laptop's manual for precise instructions on how to access the memory slots.

3. **Remove Existing Module (if applicable):** If replacing an existing module, gently push apart the small clips on either side of the RAM stick. The module will pop up at an angle. You can then pull it out from the slot.
4. **Install New Module:** Align the notch on the Timetec DDR5 SODIMM module with the key in the memory slot. Insert the module at a 45-degree angle, applying firm but gentle pressure until it is fully seated.
5. **Secure the Module:** Push the module down until the clips on both sides snap into place, securing the RAM horizontally.
6. **Reassemble:** Replace the memory compartment cover or back panel, reconnect the battery, and plug in the power adapter.



## Enhanced Multitasking Capability

With its high-speed bandwidth, DDR5 Memory empowers seamless multitasking. Run multiple programs simultaneously – stream 4K videos while editing photos, and have a dozen browser tabs open without a hitch. The ample data transfer rate ensures each application gets the resources it needs promptly, preventing any slowdowns or freezes.

Image 3.1: Timetec DDR5 SODIMM modules, ready for installation into a compatible laptop.

## 4. OPERATING INSTRUCTIONS

Once installed, the Timetec DDR5 SODIMM module operates automatically. Upon the first boot after installation, your system may take a few moments longer than usual to recognize and configure the new memory. This is normal. If the system boots successfully, the RAM is recognized and functioning.

You can verify the installed memory in your operating system's system information (e.g., Task Manager in Windows, About This Mac in macOS, or system monitor in Linux).



Image 4.1: Visual representation of DDR5 4800MHz speed capabilities.

## 5. MAINTENANCE

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Timetec DDR5 SODIMM modules are designed for long-term reliability and require minimal maintenance. To ensure optimal performance and longevity:

- Keep your laptop's interior clean from dust to prevent overheating, which can affect all internal components, including RAM.
- Avoid exposing the RAM module to extreme temperatures or humidity.
- Do not attempt to clean the gold contacts with abrasive materials or harsh chemicals. If cleaning is necessary, use a soft, lint-free cloth and isopropyl alcohol.

## 6. TROUBLESHOOTING

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If you encounter issues after installing your Timetec DDR5 SODIMM module, consider the following troubleshooting steps:

- **System Does Not Boot / Black Screen:**
  - Ensure the RAM module is fully seated in its slot. Remove and reinsert it, ensuring the clips snap securely.
  - Verify compatibility with your laptop model. Refer to your laptop's manufacturer specifications.
  - If installing multiple modules, try booting with only one module at a time to identify a potentially faulty stick.
- **System Boots, But RAM Not Fully Recognized:**
  - Check your system's BIOS/UEFI settings to ensure the memory is detected correctly.
  - Update your laptop's BIOS/UEFI to the latest version, as this can improve memory compatibility.
- **System Instability / Blue Screens (BSOD):**
  - Run a memory diagnostic tool (e.g., Windows Memory Diagnostic) to check for errors.
  - Ensure your laptop's cooling system is functioning properly to prevent overheating.

If issues persist after these steps, contact Timetec customer support or your laptop manufacturer.

## 7. SPECIFICATIONS

Feature	Detail
Module Type	DDR5 SODIMM
Capacity	16GB (1x16GB)
Speed	4800MHz (PC5-38400)
Pin Count	262-Pin
Error Correction	Unbuffered Non-ECC (with On-die ECC)
Voltage	1.1V
CAS Latency	CL40-40-40-77
Rank	1Rx8 Single Rank
Compatibility	DDR5 Laptops (Not compatible with DDR4 motherboards)

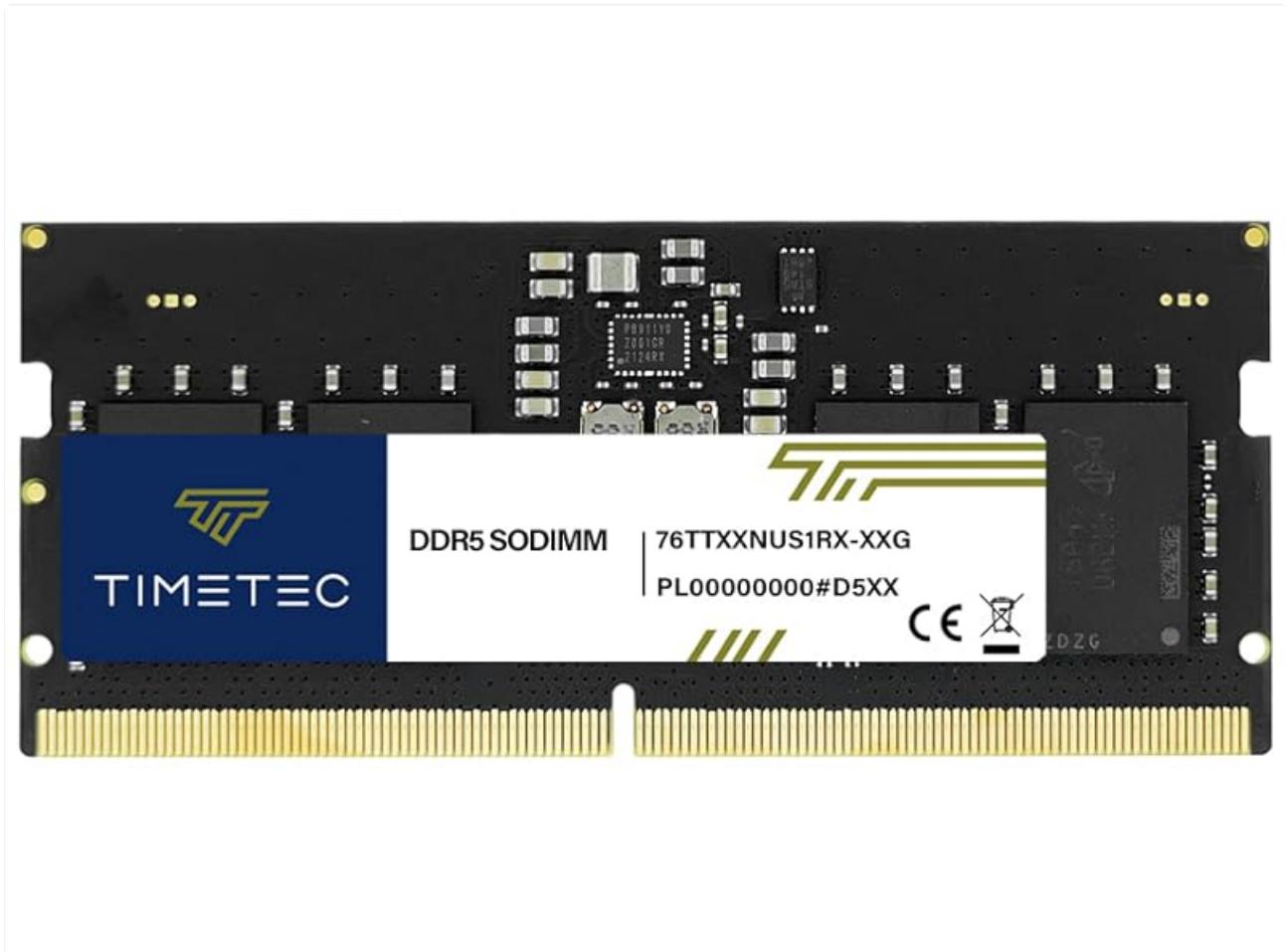


Image 7.1: Overview of Timetec DDR5 module features.

## 8. WARRANTY AND SUPPORT

Timetec provides a lifetime warranty for this product from the date of purchase. This warranty covers defects in

materials and workmanship under normal use.

For technical support or warranty claims, please contact Timetec International Inc. Free technical support is available from our United States-based team.

You can find more information and contact details on the official Timetec website or through your purchase platform.

Your browser does not support the video tag.

Video 8.1: Official Timetec Premium DDR5 SODIMM product video, showcasing features and benefits.

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