

## G.SKILL F5-6000J2836G16GX2-TZ5NR

# G.SKILL Trident Z5 Neo RGB Series DDR5 RAM (AMD EXPO)

MODEL: F5-6000J2836G16GX2-TZ5NR

Instruction Manual

## Introduction

The G.SKILL Trident Z5 Neo RGB Series DDR5 RAM is a high-performance memory kit designed for desktop computers, specifically optimized for AMD EXPO platforms. This kit includes two 16GB modules, totaling 32GB, operating at a speed of 6000MT/s with CL28-36-36-96 timings and 1.40V. It features a sleek matte black design with customizable RGB lighting, providing both aesthetic appeal and robust performance for gaming and demanding applications. This manual provides essential information for proper installation, operation, and maintenance of your memory modules.

## Setup

Before installation, ensure your motherboard and CPU are compatible with DDR5 memory and support AMD EXPO profiles. Refer to your motherboard's Qualified Vendor List (QVL) for verified compatibility. It is crucial not to mix memory kits, as this can lead to system instability or failure.

### 1. Pre-Installation Checks

- **Compatibility:** Verify your motherboard and CPU support DDR5 U-DIMM memory and AMD EXPO.
- **Motherboard Manual:** Consult your motherboard manual for specific DIMM slot configurations and installation guidelines.
- **Power Off:** Completely shut down your computer and disconnect the power cable from the wall outlet.
- **Static Discharge:** Ground yourself to discharge any static electricity before handling components.

### 2. Physical Installation

1. Open your computer case to access the motherboard.
2. Locate the DIMM slots on your motherboard. For dual-channel operation, install the modules into the

recommended slots as per your motherboard manual (often slots A2 and B2).

3. Gently push open the retention clips at both ends of the DIMM slot.
4. Align the memory module with the slot, ensuring the notch on the module matches the key in the DIMM slot.
5. Apply even pressure to both ends of the module until it clicks into place and the retention clips close automatically. If the clips do not close, gently push them until they secure the module.
6. Repeat for the second memory module.



Image: Two G.SKILL Trident Z5 Neo RGB DDR5 RAM modules correctly seated in a motherboard's DIMM slots.

### 3. BIOS/UEFI Configuration

After physical installation, you may need to enable the AMD EXPO profile in your system's BIOS/UEFI to achieve the rated speed and timings.

1. Reconnect the power cable and power on your computer.
2. During startup, press the designated key (e.g., Del, F2, F10) to enter the BIOS/UEFI setup.
3. Navigate to the memory or overlocking settings. Look for options like **AMD EXPO**, **DOCP**, or **A-XMP**.
4. Enable the EXPO profile. This will automatically configure the memory to its rated speed (6000MT/s) and timings (CL28-36-36-96).

5. Save changes and exit the BIOS/UEFI. Your system will restart.

**Note:** Enabling EXPO is a form of overclocking. System stability at rated speeds depends on the compatibility and capability of your motherboard and CPU. Memory kits will boot at JEDEC default SPD speed at default BIOS settings.

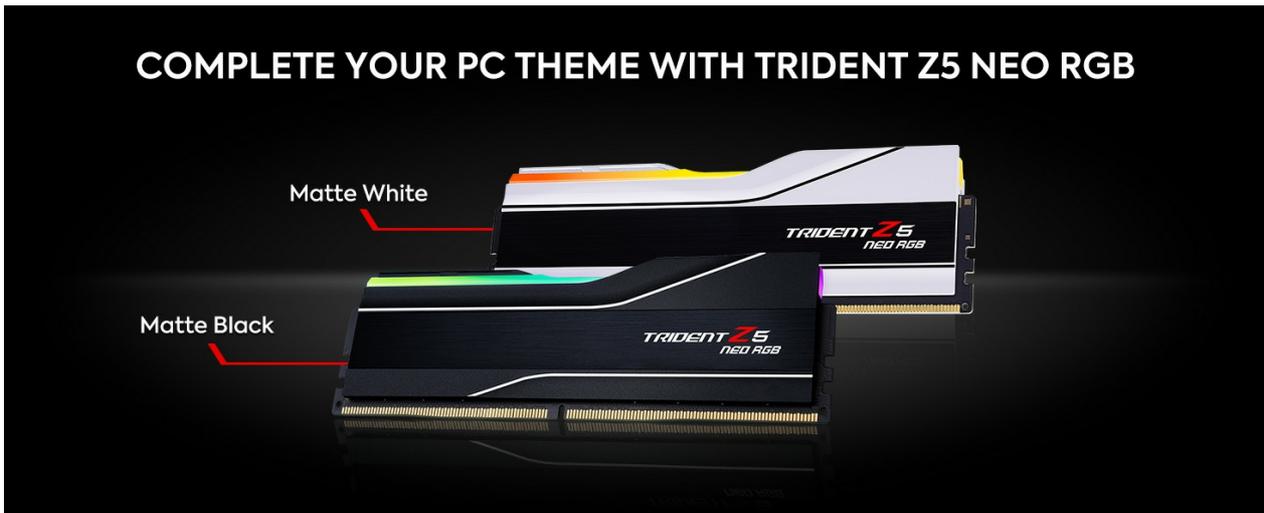


Image: G.SKILL Trident Z5 Neo RGB module highlighting AMD EXPO compatibility.

## Operating

Once installed and configured, your G.SKILL Trident Z5 Neo RGB DDR5 RAM will operate at its optimized settings. The integrated RGB lighting can be customized to match your system's aesthetic.

### RGB Lighting Control

The Trident Z5 Neo RGB modules feature a streamlined RGB light bar. You can personalize the lighting effects through:

- **G.SKILL Trident Z Lighting Control software:** Downloadable from the official G.SKILL website.
- **Supported third-party motherboard software:** Many modern motherboards offer integrated RGB control software (e.g., ASUS Aura Sync, GIGABYTE RGB Fusion, MSI Mystic Light Sync, ASRock Polychrome Sync).



Image: G.SKILL Trident Z5 Neo RGB modules displaying dynamic RGB lighting.

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Video: An official G.SKILL video showcasing the Trident Z5 Neo RGB memory modules and their dynamic lighting effects.

## Maintenance

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G.SKILL memory modules are built for quality and reliability. Proper maintenance ensures optimal performance and longevity.

- **Keep Clean:** Periodically clean your computer's interior to prevent dust buildup on components, including memory modules. Use compressed air for best results.
- **Airflow:** Ensure adequate airflow within your PC case to maintain optimal operating temperatures for all components, including RAM.
- **Firm Seating:** Occasionally check that the memory modules are firmly seated in their slots.



Image: Multiple G.SKILL Trident Z5 Neo RGB modules, highlighting their quality construction.

## Troubleshooting

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If you encounter issues with your memory, consider the following troubleshooting steps:

- **System Fails to Boot:**
  - Ensure memory modules are correctly and firmly seated in their slots.
  - Try booting with only one module at a time to identify a potentially faulty module.
  - Clear CMOS settings on your motherboard to reset BIOS to default.
- **Incorrect Memory Speed/Timings:**
  - Verify that the AMD EXPO profile is enabled in your BIOS/UEFI settings.
  - Ensure your motherboard BIOS is updated to the latest version, which often improves memory compatibility.
  - Check your motherboard's QVL to confirm the memory kit is validated for your specific board.
- **System Instability/Crashes:**
  - If you have enabled EXPO, try running the memory at JEDEC default speeds to rule out overclocking instability.
  - Run memory diagnostic tools (e.g., MemTest86) to check for errors.
  - Ensure your power supply unit (PSU) provides sufficient and stable power to all components.

For persistent issues, refer to the G.SKILL support website or contact their customer service.

## Specifications

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Feature	Detail
Model Number	F5-6000J2836G16GX2-TZ5NR
Series	Trident Z5 Neo RGB
Memory Type	DDR5 U-DIMM
Capacity	32GB (2 x 16GB)
Speed	6000 MT/s
Timings	CL28-36-36-96
Voltage	1.40V
Error Checking	Non-ECC
Pin Count	288-pin
Profile Support	AMD EXPO
Color	Matte Black
Dimensions (LxWxH)	6.69 x 2.17 x 0.35 inches
Weight	1.06 ounces

## Warranty

G.SKILL memory products are backed by a manufacturer's warranty. For specific warranty terms, conditions, and duration, please refer to the official G.SKILL website or the warranty information included with your product packaging. Keep your proof of purchase for warranty claims.

## Support

For additional assistance, technical support, or to access the latest drivers and software for your G.SKILL Trident Z5 Neo RGB memory, please visit the official G.SKILL website:

[www.gskill.com](http://www.gskill.com)

You can also find frequently asked questions (FAQs) and a memory QVL (Qualified Vendor List) tool on their website to ensure compatibility with your system.