

G.SKILL F5-6000J2836G16GX2-TR5NS

G.SKILL Trident Z5 Royal Neo Series DDR5 RAM User Manual

Model: F5-6000J2836G16GX2-TR5NS

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your G.SKILL Trident Z5 Royal Neo Series DDR5 RAM. This memory kit is designed for high-performance desktop computing, featuring AMD EXPO support for optimized performance on compatible platforms.

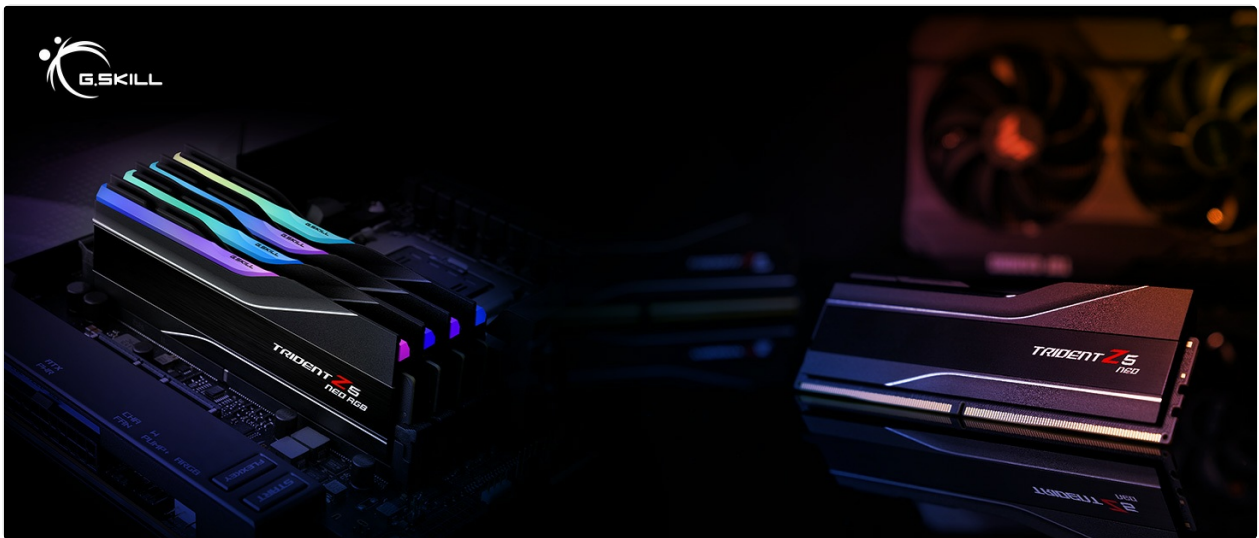


Image: G.SKILL Trident Z5 Royal Neo Series DDR5 RAM modules, highlighting the design and AMD EXPO compatibility.

2. PRODUCT FEATURES

- **Model:** F5-6000J2836G16GX2-TR5NS
- **Capacity:** 32GB (2x16GB) kit
- **Speed:** DDR5-6000 MT/s
- **Timings:** CL28-36-36-96
- **Voltage:** 1.40V

- **Type:** Non-ECC, DDR5 U-DIMM, 288-pin
- **Compatibility:** Designed for Desktop PC & Gaming, includes JEDEC default profile and AMD EXPO memory overclock profile.
- **Design:** Radiant crystalline light bar for RGB lighting and electroplated solid aluminum heatspreaders.

Established in 1989, G.SKILL is a world-class overclocked performance memory module manufacturer.

G.SKILL products are engineered and created for outstanding quality. Built upon years of experience in researching and developing overclocked performance memory, G.SKILL memory have been used to achieve overclocking records and explore the limits of memory performance for each generation of computing platform.

Image: A close-up view of the Radiant Crystalline Light Bar, showcasing its unique design for RGB lighting.



Image: Multiple G.SKILL Trident Z5 Royal Neo RAM modules, illustrating the luxurious aluminum heatspreaders.



Image: G.SKILL Trident Z5 Royal Neo RAM installed in a motherboard, emphasizing its quality construction.



Image: G.SKILL Trident Z5 Royal Neo RAM with RGB lighting synchronized with various motherboard software, demonstrating customization options.

3. SPECIFICATIONS

Feature	Detail
RAM Capacity	32 GB (2x16GB)
Brand	G.SKILL

Series	Trident Z5 Royal Neo
Model Number	F5-6000J2836G16GX2-TR5NS
Memory Type	DDR5 SDRAM
Memory Speed	6000 MT/s
Voltage	1.4 Volts
Color	Silver
Compatible Devices	Desktop

4. SETUP AND INSTALLATION

Before installing the memory modules, ensure your system is powered off and unplugged. Consult your motherboard's manual for specific instructions on RAM slot population and compatibility. Always handle memory modules by their edges to avoid touching the gold contacts or integrated circuits.

1. **Preparation:** Power down your computer and disconnect the power cable. Open your computer case.
2. **Locate RAM Slots:** Identify the DDR5 memory slots on your motherboard. Refer to your motherboard manual for the correct slots to use for dual-channel configuration.
3. **Open Retention Clips:** Gently push open the retention clips at both ends of the memory slots.
4. **Insert Modules:** Align the notch on the memory module with the key in the RAM slot. Insert the module firmly into the slot until the retention clips snap into place. Ensure both clips are fully closed.
5. **Secure and Power On:** Close your computer case, reconnect the power cable, and power on your system.

Important: Do not mix memory kits. Memory kits are sold in matched sets designed to function together. Mixing kits can lead to stability issues or system failure. For optimal performance, refer to the G.SKILL memory QVL (Qualified Vendor List) or RAM Configurator tool on the G.SKILL website for validated motherboard and hardware compatibility.

Video: Official product trailer for the Trident Z5 Royal Series DDR5 Memory. This video provides a visual overview of the product's design and features, not an installation guide.

5. OPERATING INSTRUCTIONS

Your G.SKILL Trident Z5 Royal Neo DDR5 RAM is equipped with an AMD EXPO overclock profile to achieve its rated speed. By default, memory kits will boot at JEDEC SPD speed. To enable the rated overclock speed:

1. **Access BIOS/UEFI:** During system startup, press the designated key (often Del, F2, F10, or F12) to enter your motherboard's BIOS or UEFI settings.
2. **Enable EXPO Profile:** Navigate to the memory or overclocking section. Locate and enable the AMD EXPO (or DOCP/A-XMP) profile. This will automatically configure the memory to its rated speed and timings.
3. **Save and Exit:** Save the changes and exit the BIOS/UEFI. Your system will restart with the new memory

settings.

Enabling EXPO is considered an act of overclocking and requires BIOS setting adjustments. Achieving the rated EXPO overclock speed and system stability depends on the compatibility and capability of your specific motherboard and CPU.

6. MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your G.SKILL Trident Z5 Royal Neo RAM, follow these maintenance guidelines:

- **Handling:** Always handle memory modules by their edges. Avoid touching the gold contacts or the integrated circuits on the module.
 - **Cleaning:** If necessary, gently clean the heatspreaders with a soft, dry, lint-free cloth. Do not use liquid cleaners or abrasive materials.
 - **Environment:** Operate your computer in a clean, dust-free environment with adequate airflow to prevent overheating.
 - **Storage:** If storing modules, keep them in their original anti-static packaging or an anti-static bag.
-

7. TROUBLESHOOTING

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

- **System Not Booting:** Ensure modules are fully seated in their slots. Try reseating them. Verify that your motherboard supports the installed DDR5 memory.
- **Incorrect Speed Detected:** Access your BIOS/UEFI and confirm that the AMD EXPO profile is enabled. If not, enable it and save changes.
- **System Instability/Crashes:** This can be caused by incompatible hardware or incorrect BIOS settings. Ensure your motherboard BIOS is updated to the latest version. If overclocking, try running the memory at JEDEC default speeds to rule out instability from the EXPO profile.
- **Memory Not Detected:** Check your motherboard manual for correct slot population. Test modules individually if you have multiple.

If problems persist after following these steps, consult the G.SKILL support website or your motherboard manufacturer's support resources.

8. WARRANTY AND SUPPORT

G.SKILL memory products typically come with a limited lifetime warranty. For detailed warranty information, terms, and conditions, please visit the official G.SKILL website. Technical support and further assistance can also be found on the G.SKILL support portal.

Official G.SKILL Website: www.gskill.com

