

G.SKILL F5-6000J3636F16GX2-RS5K

G.SKILL Ripjaws S5 Series DDR5 RAM (F5-6000J3636F16GX2-RS5K) Instruction Manual

Model: F5-6000J3636F16GX2-RS5K

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1. OVERVIEW

The G.SKILL Ripjaws S5 Series DDR5 RAM is designed for high-performance desktop computing. This memory kit, model F5-6000J3636F16GX2-RS5K, features a total capacity of 32GB (2x16GB modules) operating at a speed of 6000MT/s with CL36-36-36-96 timings and 1.35V. It supports both Intel XMP 3.0 and AMD EXPO memory overclock profiles, providing optimized performance for compatible Intel and AMD platforms. The low-profile design ensures compatibility with a wide range of CPU coolers and PC cases.



Image: G.SKILL Ripjaws S5 Series DDR5 RAM modules. This image displays the two matte black memory modules, highlighting their sleek design and the G.SKILL branding.

2. SAFETY INFORMATION

- Always disconnect power from your computer and ground yourself before handling memory modules or any internal components to prevent electrostatic discharge (ESD).
- Handle memory modules by their edges to avoid touching the gold contacts or integrated circuits.
- Ensure your motherboard and CPU are compatible with DDR5 memory. Refer to your motherboard's QVL (Qualified Vendor List) for verified compatibility.
- Do not force memory modules into slots. They are keyed to fit in only one orientation.
- Keep memory modules away from liquids and extreme temperatures.
- Mixing memory kits, even of the same model, can lead to stability issues or system failure. Use matched kits designed to run together as a set.

3. PACKAGE CONTENTS

Your G.SKILL Ripjaws S5 Series DDR5 RAM package should contain the following:

- Two (2) G.SKILL Ripjaws S5 Series DDR5 16GB memory modules (Total 32GB)

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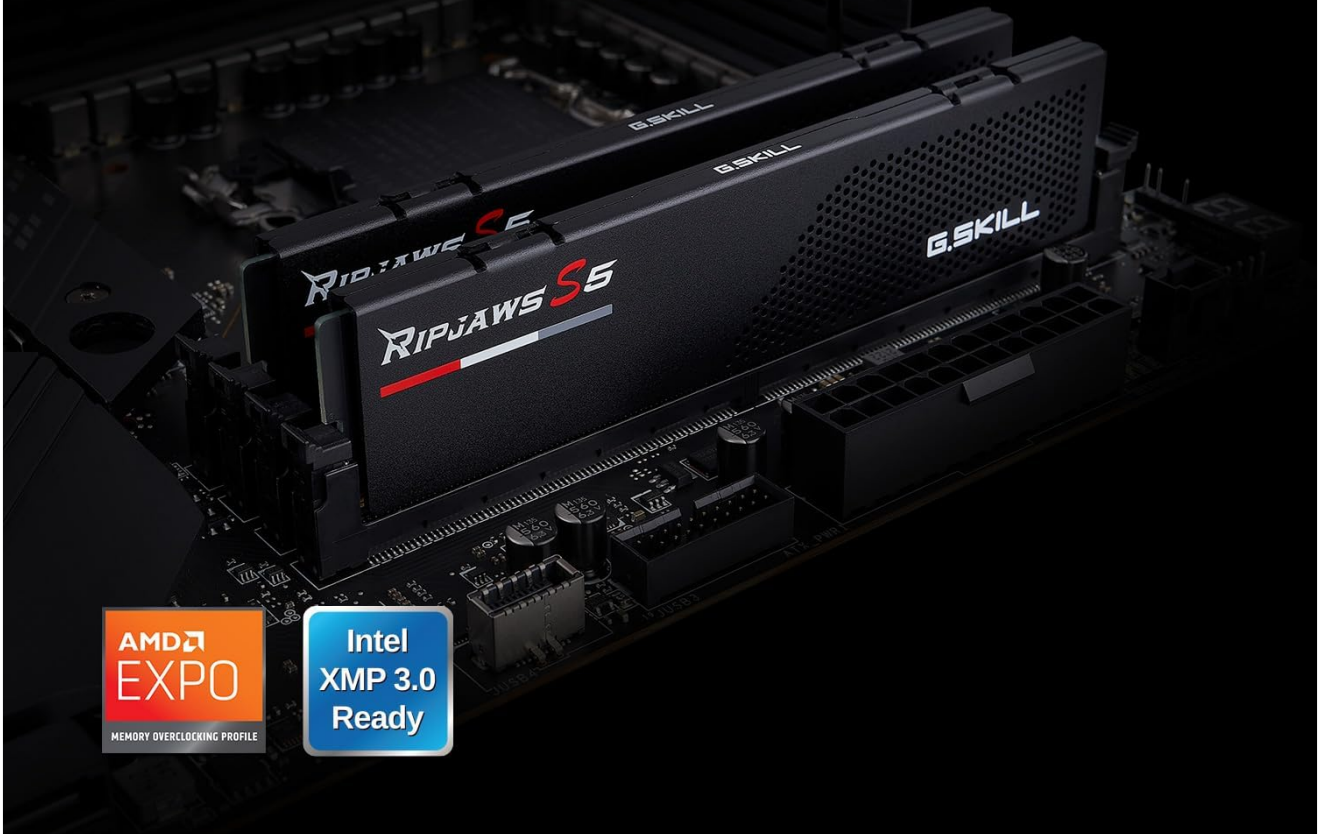


Image: Two G.SKILL Ripjaws S5 DDR5 RAM modules. This image shows a pair of the memory modules, as they would be packaged in a kit.

4. SETUP AND INSTALLATION

Follow these steps to install your G.SKILL Ripjaws S5 Series DDR5 RAM modules:

1. **Preparation:** Power off your computer completely and unplug the power cord from the wall outlet. Open your computer case.
2. **Grounding:** Touch a metal part of your computer chassis to discharge any static electricity from your body.
3. **Locate DIMM Slots:** Identify the DDR5 DIMM slots on your motherboard. Consult your motherboard manual for the correct slot configuration for dual-channel memory (typically slots 2 and 4, or A2 and B2).
4. **Open Retention Clips:** Gently push open the retention clips at both ends of the DIMM slots.
5. **Insert Memory Modules:** Align the notch on the memory module with the key in the DIMM slot. Insert the module firmly and evenly into the slot until the retention clips snap into place. You may need to apply gentle pressure on both ends of the module.
6. **Verify Seating:** Ensure both retention clips are fully closed and the module is securely seated.
7. **Repeat for Second Module:** Install the second memory module into the recommended paired slot according

to your motherboard manual.

8. **Close Case and Power On:** Close your computer case, reconnect the power cord, and power on your system.



Image: G.SKILL Ripjaws S5 DDR5 RAM installed in a motherboard. This image shows the memory modules properly seated in the DIMM slots of a motherboard.

Your browser does not support the video tag.

Video: G.SKILL Ripjaws S5 Overview. This video provides a general overview of the G.SKILL Ripjaws S5 memory series, including its design and features.

5. OPERATION

Upon initial boot, your memory modules will operate at their JEDEC default speed (e.g., 4800MT/s) at default BIOS settings. To achieve the rated overclock speed of 6000MT/s, you must enable the Intel XMP 3.0 or AMD EXPO profile in your motherboard's BIOS.

Enabling XMP/EXPO Profile:

1. **Enter BIOS/UEFI:** Restart your computer and repeatedly press the designated key (commonly **Del**, **F2**, **F10**,

or **F12**) during startup to enter the BIOS/UEFI setup.

2. **Locate Memory Settings:** Navigate to the memory or overlocking settings. The exact location varies by motherboard manufacturer (e.g., "Ai Tweaker" on ASUS, "M.I.T." on GIGABYTE, "OC" on MSI).
3. **Enable Profile:** Find the option for "XMP" (Extreme Memory Profile) or "EXPO" (Extended Profiles for Overclocking) or similar (e.g., DOCP, A-XMP). Select the profile that corresponds to the rated speed of your G.SKILL memory (e.g., DDR5-6000).
4. **Save and Exit:** Save the changes and exit the BIOS/UEFI. Your system will restart with the new memory settings applied.

Note: Enabling XMP or EXPO is considered overclocking. System stability and the ability to reach the rated speed depend on the compatibility and capability of your motherboard and CPU. Refer to the G.SKILL memory QVL or RAM Configurator tool on the G.SKILL website for detailed compatibility information.



Image: G.SKILL Ripjaws S5 with Intel XMP 3.0 and AMD EXPO logos. This image highlights the memory's support for both Intel XMP 3.0 and AMD EXPO overclocking profiles.

6. MAINTENANCE

G.SKILL Ripjaws S5 Series DDR5 RAM modules are designed for long-term reliability and require minimal maintenance. Follow these guidelines for optimal performance and longevity:

- **Keep Clean:** Periodically clean the interior of your computer case to prevent dust buildup, which can affect cooling and component lifespan. Use compressed air to gently remove dust from around the memory modules and DIMM slots.
- **Avoid Physical Damage:** Handle modules carefully. Avoid dropping them or applying excessive force.
- **Environmental Conditions:** Ensure your computer operates in a well-ventilated environment with stable temperature and humidity to prevent overheating and condensation.

7. TROUBLESHOOTING

If you encounter issues after installing your G.SKILL Ripjaws S5 Series DDR5 RAM, consider the following troubleshooting steps:

Common Issues and Solutions:

- **System Does Not Boot / No Display:**
 - Ensure memory modules are fully seated in their slots. Re-seat them firmly.

- Verify that the modules are installed in the correct DIMM slots as specified by your motherboard manual for dual-channel operation.
 - Try booting with only one module installed to identify if a specific module is faulty.
 - Clear your motherboard's CMOS (Complementary Metal-Oxide-Semiconductor) settings. Refer to your motherboard manual for instructions.
- **Memory Detected at Lower Speed (e.g., 4800MT/s instead of 6000MT/s):**
 - Enter BIOS/UEFI and ensure the Intel XMP 3.0 or AMD EXPO profile is enabled.
 - Update your motherboard's BIOS to the latest version. Newer BIOS versions often improve memory compatibility and stability.
 - Verify your CPU and motherboard support the rated memory speed. Check the G.SKILL QVL (Qualified Vendor List) for your specific motherboard model.
 - **System Instability / Crashes:**
 - Ensure XMP/EXPO is correctly configured and not set to an unsupported profile.
 - Run a memory diagnostic tool (e.g., MemTest86) to check for errors.
 - Confirm that you are not mixing memory kits. G.SKILL memory kits are sold as matched sets and mixing them can cause instability.
 - Ensure proper system cooling, as high temperatures can affect memory stability.

8. SPECIFICATIONS

Brand	G.SKILL
Model Name	Ripjaws S5 Series
Model Number	F5-6000J3636F16GX2-RS5K
Computer Memory Size	32 GB (2 x 16GB)
RAM Memory Technology	DDR5
Memory Speed	6000 MT/s
Data Transfer Rate	6000 MHz
Column Address Strobe Latency (CAS Latency)	CL36 (36-36-36-96)
Voltage	1.35 Volts
Form Factor	DIMM (UDIMM)
Number of Pins	288
Compatible Devices	Desktop PCs (Intel Z890, Z790, Z690, B860, B760, B660; AMD X870, X670, B850, B840, B650, A620 platforms)
Additional Features	Dual OC Profile Support (Intel XMP 3.0 & AMD EXPO)
Item Weight	120 Grams

9. WARRANTY INFORMATION

G.SKILL Ripjaws S5 Series DDR5 RAM comes with a **Limited Lifetime Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use. For specific terms, conditions, and the process for warranty claims, please refer to the official G.SKILL website or contact their customer support.

10. CUSTOMER SUPPORT

For further assistance, technical support, or to access the latest drivers and compatibility lists (QVL), please visit the official G.SKILL website:

www.gskill.com

You can also refer to the RAM Configurator tool available on the G.SKILL website to check compatibility with your specific motherboard and hardware.