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› G.SKILL Flare X5 Series DDR5 RAM (AMD Expo) 32GB (2x16GB) 6000MT/s CL30-38-38-96 User Manual

G.SKILL F5-6000J3038F16GX2-FX5

G.SKILL Flare X5 Series DDR5 RAM User Manual

Model: F5-6000J3038F16GX2-FX5

Brand: G.SKILL

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your G.SKILL Flare X5 Series DDR5 RAM kit. This memory kit is designed for high-performance desktop computing, featuring AMD EXPO support for optimized performance on compatible platforms.

2. PRODUCT OVERVIEW

The G.SKILL Flare X5 Series DDR5 RAM (Model F5-6000J3038F16GX2-FX5) is a 32GB (2x16GB) kit engineered for desktop systems. It operates at a speed of 6000MT/s with CL30-38-38-96 timings at 1.35V. Key features include:

- **High-Speed Performance:** DDR5-6000 with low latency CL30.
- **AMD EXPO Profile:** Optimized for AMD platforms to achieve rated overclock speeds.
- **Low-Profile Design:** A compact 33mm module height, suitable for systems with large CPU coolers or limited space.
- **Non-ECC, U-DIMM:** Standard unbuffered memory for desktop computers.



Image 2.1: G.SKILL Flare X5 Series DDR5 RAM modules.

COMPACT LOW-PROFILE DESIGN

Features a low-profile module height of just 33mm, ideal for compact PC builds.



Image 2.2: Low-profile design of the Flare X5 module, indicating a height of 33mm.

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and system stability. Please follow these guidelines carefully.

3.1. Pre-Installation Checklist

- Ensure your motherboard supports DDR5 memory and is compatible with the specified speed and capacity. Refer to your motherboard's Qualified Vendor List (QVL) or G.SKILL's RAM Configurator tool.
- Power off your computer and unplug it from the power outlet.
- Discharge any static electricity by touching a grounded metal object before handling the memory modules.
- Do not mix memory kits. This kit is sold as a matched set (2x16GB) and is designed to run together. Mixing kits can lead to stability issues or system failure.

3.2. Physical Installation

1. Locate the DDR5 DIMM slots on your motherboard. Consult your motherboard manual for the correct slot configuration for dual-channel operation.
2. Open the retention clips on both ends of the DIMM slot.
3. Align the memory module with the slot, ensuring the notch on the module matches the key in the slot.
4. Apply even pressure to both ends of the module until it clicks into place and the retention clips close automatically.
5. Repeat for the second module in the appropriate slot.



Image 3.1: G.SKILL Flare X5 RAM modules correctly installed in a motherboard's DIMM slots.

3.3. BIOS Configuration (AMD EXPO)

To achieve the rated 6000MT/s speed and CL30 timings, you must enable the AMD EXPO profile in your motherboard's BIOS.

1. After physical installation, reconnect power and boot your computer.
2. Enter the BIOS/UEFI setup utility (usually by pressing DEL or F2 during startup).
3. Navigate to the memory settings or overclocking section. The exact location varies by motherboard manufacturer.

Look for options like "EXPO," "DOCP," or "A-XMP."

- 4. Enable the AMD EXPO profile. This will automatically configure the memory speed, timings, and voltage to the rated specifications.
- 5. Save changes and exit the BIOS. Your system will restart.

Note: Enabling EXPO is considered overclocking. System stability and the ability to reach rated speeds depend on the compatibility and capability of your motherboard and CPU. The memory kit will boot at JEDEC default SPD speed if EXPO is not enabled.

4. OPERATING INSTRUCTIONS

Once installed and configured, your G.SKILL Flare X5 DDR5 RAM operates automatically. The primary operational aspect is ensuring the AMD EXPO profile is active in your BIOS to utilize the full performance capabilities of the memory kit.

- **Verification:** After enabling EXPO, you can verify the memory speed and timings using system information tools within your operating system (e.g., Task Manager in Windows, CPU-Z).
- **System Stability:** If you experience system instability after enabling EXPO, ensure your motherboard BIOS is updated to the latest version and that your CPU is compatible with the memory speed.

5. MAINTENANCE

DDR5 RAM modules generally require minimal maintenance. Follow these guidelines to ensure longevity:

- **Handling:** Always handle memory modules by their edges to avoid touching the gold contacts or integrated circuits.
- **Cleaning:** If necessary, gently clean the heat spreaders with a soft, dry, anti-static cloth. Do not use liquid cleaners.
- **Environment:** Ensure your computer case has adequate airflow to prevent excessive heat buildup, which can affect memory performance and lifespan.

6. TROUBLESHOOTING

If you encounter issues with your G.SKILL Flare X5 memory, consider the following troubleshooting steps:

6.1. Common Issues and Solutions

Problem	Possible Cause	Solution
System does not boot or displays no video.	Memory modules not seated correctly.	Reseat the memory modules firmly in their slots. Ensure retention clips are fully closed.
Memory runs at lower speed than advertised (e.g., 4800MT/s).	AMD EXPO profile not enabled in BIOS.	Enter BIOS and enable the AMD EXPO profile.
System instability, crashes, or Blue Screen of Death (BSOD).	Incompatible hardware, outdated BIOS, or mixed memory kits.	Update motherboard BIOS. Ensure CPU and motherboard are compatible with the memory kit's rated speed. Do not mix memory kits. Test modules individually if possible.
Incorrect memory capacity detected.	One or more modules not detected or faulty.	Reseat modules. Test each module individually in a known working slot. Check motherboard manual for correct slot population.

6.2. Further Assistance

If issues persist, refer to the G.SKILL website for their memory QVL (Qualified Vendor List) or RAM Configurator tool to confirm compatibility. You may also contact G.SKILL technical support for specialized assistance.

7. SPECIFICATIONS

Detailed technical specifications for the G.SKILL Flare X5 Series DDR5 RAM (Model F5-6000J3038F16GX2-FX5):

Specification	Value
Brand	G.SKILL
Series	Flare X5
Model Number	F5-6000J3038F16GX2-FX5
Memory Type	DDR5 U-DIMM
Capacity	32 GB (2 x 16 GB)
Speed	6000 MT/s
Latency	CL30-38-38-96
Voltage	1.35 Volts
Error Checking	Non-ECC
Pin Count	288-pin
Module Height	33mm
Color	Matte Black
Compatible Devices	Desktop PCs (AMD X870, X670, B850, B840, B650, A620 platforms)
Item Weight	4.2 ounces
Product Dimensions	8.6 x 5.6 x 0.6 inches

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official G.SKILL website or contact their customer service directly. G.SKILL provides support resources including FAQs, driver downloads, and contact options.

- **G.SKILL Official Website:** www.gskill.com
- **Product Support:** Visit the support section on the G.SKILL website for QVL lists and troubleshooting guides.

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question