KLEVV KD5KGUD80-64A320J

KLEVV CRAS V RGB DDR5 48GB (2x24GB) 6400MHz CL32 Gaming Desktop RAM Memory User Manual

Model: KD5KGUD80-64A320J

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your KLEVV CRAS V RGB DDR5 48GB (2x24GB) 6400MHz CL32 Gaming Desktop RAM Memory. Please read this manual thoroughly before installation to ensure optimal performance and system stability.

KLEVV is a premium memory brand committed to delivering high-performance products. The CRAS V RGB series is designed for enthusiasts and gamers seeking exceptional speed, aesthetic appeal, and reliable performance.

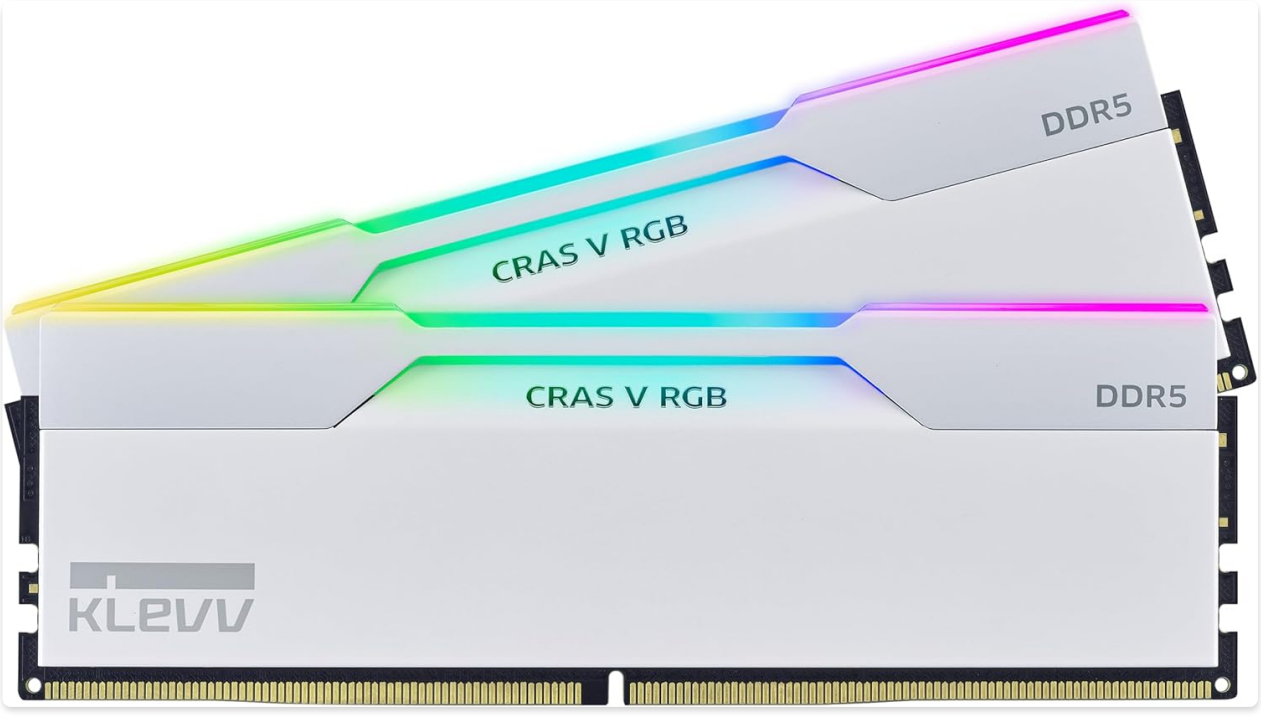

Figure 1: KLEVV CRAS V RGB DDR5 Memory Modules

2. Product Features

- **Breakthrough Performance:** Engineered for groundbreaking performance and extreme overclocking potential, delivering blazing speeds up to 8000MT/s.
- **Full Range RGB Color Support:** Features a unique hollow linear design that illuminates perfectly from the top to both sides, providing marvelous lighting effects.
- **Futuristic Tone-on-tone Design:** Robust aluminum heatsink with a delicate tone-on-tone color combination for effective heat dissipation.
- **Low Clearance, High Flexibility:** With a height of just 44mm, the CRAS V RGB offers low clearance for maximized freedom in selecting ideal configurations.
- **Optimized for Gaming:** Offers extremely fast performance for top-tier gaming, programs, and applications.
- **Mainstream RGB Software Support:** Compatible with RGB control software of major mainboard manufacturers for customizable LED light flow.
- **One-click Memory Overclocking:** Supports Intel XMP 3.0 and AMD EXPO profiles for optimized timing, voltage, and speed.
- **Superior Technology:** Combines optimal performance, power efficiency, and stability through strictly selected components.
- **Excellent Compatibility:** Approved to be compatible with mainstream mainboards.

Figure 2: Two KLEVV CRAS V RGB DDR5 Memory Modules

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Video 1: Introducing KLEVV CRAS V RGB - An official overview of the memory modules, highlighting their design and features.

3. Setup and Installation

3.1 Pre-installation Checks

- **Motherboard Compatibility:** Before purchase and installation, always check your motherboard's Qualified Vendor List (QVL) to ensure compatibility with the KLEVV CRAS V RGB DDR5 modules.
- **System Power Off:** Ensure your computer is completely powered off and unplugged from the wall outlet before handling any internal components.
- **Static Discharge:** Wear an anti-static wrist strap or touch a grounded metal object (like your PC case) to discharge any static electricity before touching the memory modules or motherboard.

3.2 Physical Installation

1. Locate the DIMM slots on your motherboard. For dual-channel memory, refer to your motherboard manual for the correct slot configuration (typically slots 2 and 4, or A2 and B2).
2. Gently push open the clips at both ends of the DIMM slot.
3. Align the notch on the memory module with the notch in the DIMM slot. Ensure the module is oriented correctly.
4. Apply even pressure to both ends of the memory module until it clicks into place and the clips close automatically. If the clips do not close, gently push them until they lock.
5. Repeat the process for the second memory module.

Figure 3: Memory modules installed in a desktop PC

4. Operating Instructions

4.1 Enabling XMP 3.0 / AMD EXPO Profiles

To achieve the advertised speeds (e.g., 6400MHz), you must enable the Intel XMP 3.0 or AMD EXPO profile in your motherboard's BIOS/UEFI settings. These profiles provide optimized timing, voltage, and speed settings.

1. Power on your computer and repeatedly press the designated key (usually DEL, F2, F10, or F12) to enter the BIOS/UEFI setup.
2. Navigate to the 'Overclocking', 'Advanced', or 'AI Tweaker' section (naming varies by motherboard manufacturer).
3. Locate the 'XMP' (for Intel) or 'EXPO' (for AMD) profile setting.
4. Enable the profile (e.g., select 'Profile 1' or 'Enabled').
5. Save changes and exit the BIOS/UEFI. Your system should now boot with the optimized memory settings.

Note: To attain the specified memory speed with XMP 3.0 or EXPO profile, please ensure the specifications of your CPU and motherboard support the corresponding speed in advance.

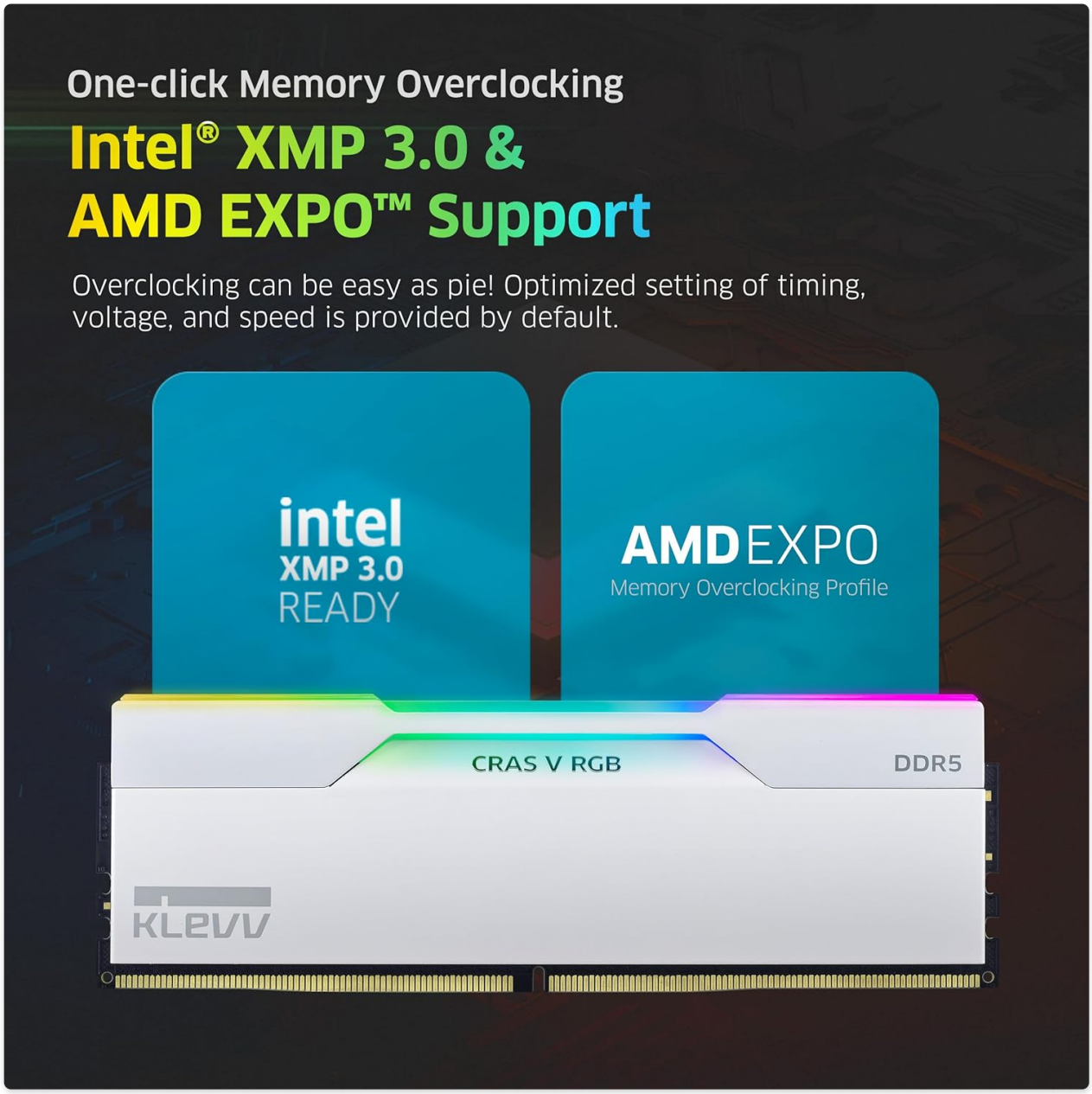

Figure 4: XMP 3.0 and AMD EXPO Support

4.2 RGB Lighting Control

The CRAS V RGB modules are compatible with mainstream motherboard RGB control software. Download and install the appropriate software for your motherboard (e.g., ASUS Aura Sync, MSI Mystic Light Sync, GIGABYTE RGB Fusion, ASRock Polychrome Sync) to customize the LED lighting effects.

Figure 5: Customizable RGB Lighting

5. Maintenance

- **Keep Clean:** Periodically clean your computer's interior to prevent dust buildup on the memory modules, which can affect cooling performance. Use compressed air for this purpose.
- **Proper Handling:** When handling memory modules, always hold them by the edges to avoid touching the gold contacts or the integrated circuits.
- **Temperature Control:** Ensure adequate airflow within your PC case to maintain optimal operating temperatures for all components, including RAM.

6. Troubleshooting

- **System Instability with 4 Modules:** While the CRAS V RGB is designed for compatibility, using four memory modules (especially on AMD platforms) can sometimes lead to instability at higher speeds. If you experience issues, try using only two modules in the recommended dual-channel slots.
- **Failure to Boot at Advertised Speed:** Ensure XMP/EXPO is enabled in BIOS. If still unstable, check your motherboard's QVL for supported speeds with your specific CPU. A BIOS update for your motherboard may also improve memory compatibility and stability.
- **Mixing Memory Kits:** Memory kits are sold in matched sets for optimal performance. Mixing memory modules from different kits (even of the same model) may result in stability issues or system failure. Always use the memory kit by pair.
- **No Display/POST:** Re-seat the memory modules firmly into their slots. Ensure they are correctly aligned and locked. Test one module at a time to identify a potentially faulty stick or slot.

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Video 2: AKMOD X CRAS V RGB Image Video - A visual showcase of the KLEVV CRAS V RGB memory modules in a custom PC build.

7. Specifications

Feature	Detail
Brand	KLEVV
Series	CRAS V RGB
RAM Size	48 GB (2 x 24GB)

Feature	Detail
RAM Memory Technology	DDR5
Memory Speed	6400 MHz
CAS Latency	CL32
Voltage	1.35V
Chip Type	SK Hynix A-Die
Compatible Devices	Desktop
Color	White
Model Number	KD5KGUD80-64A320J

8. Warranty and Support

For warranty information, technical support, or further product details, please visit the official KLEVV website. KLEVV products are backed by a commitment to quality and performance.

Official KLEVV Website: www.klevv.com