ZMX GMK61

ZMX GMK61 Barebones Mechanical Keyboard Kit User Manual

Model: GMK61

1. Introduction

This manual provides comprehensive instructions for the setup, operation, and maintenance of your ZMX GMK61 Barebones Mechanical Keyboard Kit. The GMK61 is a 60% layout, hot-swappable keyboard kit designed for customization, featuring triple-mode connectivity (Bluetooth 5.0, 2.4GHz wireless, and USB-C wired) and RGB backlighting.

This kit requires the user to install their preferred mechanical switches and keycaps to complete the keyboard assembly.

2. What's in the Box

- GMK61 Barebones Keyboard Kit
- 2-in-1 Switch & Keycap Puller
- USB-C Cable
- User Manual (this document)



Image: Overview of the GMK61 Barebones Keyboard Kit and its main features.

3. Setup

3.1. Keyboard Assembly

1. **Install Mechanical Switches:** The GMK61 features a hot-swappable PCB, allowing for easy installation and removal of 3-pin or 5-pin mechanical switches without soldering. Align the pins of your chosen switches with the sockets on the PCB and press firmly until they click into place. Ensure switches are fully seated to prevent bent pins.
2. **Install Keycaps:** Once switches are installed, place your desired keycaps onto the switch stems. Press each keycap down gently but firmly until it is securely attached.



Image: Installation of a mechanical switch into the hot-swappable PCB, showing the south-facing LED design.

Your browser does not support the video tag.

Video: Demonstration of assembling the GMK61 barebones keyboard kit, including switch and keycap installation.

3.2. Connectivity

The GMK61 supports three connection modes: USB-C Wired, 2.4GHz Wireless, and Bluetooth 5.0.

- **Wired Mode:** Connect the keyboard to your computer using the provided USB-C cable. The keyboard will automatically be detected and ready for use.
- **2.4GHz Wireless Mode:** Locate the 2.4GHz USB receiver (usually stored in a compartment on the keyboard's underside). Plug the receiver into an available USB port on your computer. Switch the keyboard to 2.4GHz mode using the switch on the back or a specific FN key combination (refer to Section 4.1).
- **Bluetooth 5.0 Mode:** Ensure the keyboard is in Bluetooth mode (refer to Section 4.1). On your device (PC, laptop, smartphone, etc.), search for Bluetooth devices and select "GMK61" to pair.



Image: Visual representation of the GMK61's triple-mode connectivity options.

4. Operating Instructions

4.1. Switching Connectivity Modes

Use the following key combinations to switch between modes:

- **Bluetooth Mode:** Press **FN + Q/W/E** to cycle through Bluetooth profiles.
- **2.4GHz Wireless Mode:** Press **FN + R**.
- **USB-C Wired Mode:** Connect the USB-C cable. The keyboard will automatically switch to wired mode.

4.2. RGB Backlighting Control

The GMK61 features 16.8 million RGB colors and south-facing LEDs with 18 preset backlighting effects. Control the lighting using the following FN key combinations:

- **FN + \|:** Switch Backlight Mode
- **FN + ;::** Switch RGB Dynamic Light Directions

- **FN + "':** Switch RGB Backlight Colors
- **FN + Backspace:** Backlight On/Off



Image: Guide to controlling the RGB backlighting effects using FN key combinations.

Your browser does not support the video tag.

Video: Demonstration of the various RGB backlighting effects available on the GMK61 keyboard.

4.3. Programmable Features and Software

The GMK61 supports custom programming through dedicated software. This software allows you to:

- Remap key functions
- Create and assign macros
- Adjust RGB lighting effects beyond the preset options

Note: The programming software is compatible with Windows operating systems only. Please refer to the manufacturer's website or support channels for the latest software download and instructions.



Image: Interface of the GMK61 keyboard's customization software.

5. Maintenance

5.1. Cleaning

- Regularly clean the keyboard with a soft, dry cloth.
- For deeper cleaning, remove keycaps using the provided keycap puller and use compressed air to clear debris from between switches.
- Avoid using harsh chemicals or abrasive materials that could damage the keyboard's surface or components.

5.2. Battery Care

The GMK61 includes a Lithium Ion battery. To prolong battery life:

- Avoid fully discharging the battery frequently.
- Store the keyboard in a cool, dry place when not in use for extended periods.
- Charge the keyboard using the provided USB-C cable connected to a standard USB power source.

6. Troubleshooting

- **Keyboard not responding:** Ensure the keyboard is charged and properly connected (wired, 2.4GHz receiver, or Bluetooth paired). Try restarting your computer or device.
- **Wireless connectivity issues:** For 2.4GHz, ensure the USB receiver is securely plugged in and the keyboard is in 2.4GHz mode. For Bluetooth, ensure the keyboard is in Bluetooth mode and paired correctly. Try re-pairing the device.
- **RGB backlighting not working:** Check if the backlight is turned off (FN + Backspace). Cycle through modes and colors using the FN key combinations. Ensure the keyboard is sufficiently charged.
- **Keys not registering:** Ensure switches are fully seated in their sockets. If a specific key is not working, try

swapping the switch with a known working one to diagnose if the issue is with the switch or the PCB.

- **Software driver not found/working:** The manufacturer's software is required for advanced customization. If you encounter difficulty locating or installing the driver, please contact ZMX customer support for assistance.

7. Specifications

Feature	Detail
Model Number	GMK61
Brand	ZMX
Layout	60% (61 Keys)
Connectivity	Wireless Bluetooth 5.0/2.4G/Type-C Wired
Hot-Swappable	Yes (3-pin or 5-pin switches)
Backlighting	RGB (South-Facing LEDs)
Battery	1 Lithium Ion battery (included)
Product Dimensions	13.3"L x 6.3"W x 2.2"H
Item Weight	1 pounds
Compatible Devices	Gaming Console, Laptop, PC, Smart TV, Smartphone
Special Features	Backlit, Ergonomic, Hot-Swappable, Portable 60% Size, Programmable Keys

8. Warranty and Support

For warranty information and technical support, please refer to the official ZMX website or contact ZMX customer service directly. Details regarding specific warranty periods and support procedures are typically provided with your purchase documentation or on the manufacturer's official channels.

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