ZUOYA GMK81

ZUOYA GMK81 Mechanical Keyboard Kit User Manual

Model: GMK81

1. SETUP AND ASSEMBLY

The ZUOYA GMK81 is a barebones mechanical keyboard kit, designed for customization. This section guides you through the initial setup, including switch and keycap installation, and connecting your keyboard.

1.1 Package Contents

Before you begin, ensure all components are present:

- ZUOYA GMK81 Keyboard Base (75% layout with TFT screen)
- USB-C Cable
- Keycap Puller
- Switch Puller
- 100 x Keycaps (if included in your specific kit)
- Additional switches (if included in your specific kit)

1.2 Installing Switches and Keycaps

The GMK81 features a hot-swappable PCB, allowing for easy installation and removal of 3-pin or 5-pin mechanical switches without soldering. Standard ANSI layout keycaps are supported.

1. Using the provided switch puller, carefully align the switch with the hot-swap socket on the PCB. Ensure the pins are straight.
2. Gently press the switch into the socket until it clicks into place. Do not force the switch, as bent pins can damage the socket.
3. Repeat for all desired switches.
4. Once switches are installed, use the keycap puller to place your chosen keycaps onto the switches. Ensure they are firmly seated.

Image: Exploded view of the ZUOYA GMK81 keyboard kit, showing the layers including the screen, upper cover, PC board, Poron cotton, IXPE switch pad, circuit board, sponge, silicone pad, and bottom shell. This illustrates the gasket-mounted structure.

Image: A hand demonstrating the installation of a mechanical switch onto the hot-swappable PCB of the ZUOYA GMK81 keyboard kit. The image highlights the ease of customization.

1.3 Connectivity Options

The GMK81 supports three connection modes:

- **Bluetooth 5.0:** For wireless connection to compatible devices.
- **2.4GHz Wireless:** Utilizes a USB dongle for a stable wireless connection.
- **Type-C Wired:** Connects directly via the included USB-C cable.

To switch between modes, use the toggle switch located on the keyboard. Refer to the "Operating Instructions" section for detailed pairing procedures.

Image: The ZUOYA GMK81 keyboard demonstrating its triple-mode connectivity, wirelessly connected to a tablet and a smartphone, and wired to a laptop. This highlights its versatility across various devices.

2. OPERATING INSTRUCTIONS

2.1 Connecting Your Keyboard

The ZUOYA GMK81 offers flexible connectivity options:

- **Wired Mode:** Connect the USB-C cable from the keyboard to your computer. The keyboard will automatically switch to wired mode.
- **2.4GHz Wireless Mode:** Locate the 2.4GHz USB dongle (usually stored in a compartment on the keyboard). Plug the dongle into an available USB port on your device. Toggle the switch on the keyboard to 2.4GHz mode. The keyboard should connect automatically.
- **Bluetooth Mode:** Toggle the switch on the keyboard to Bluetooth mode. On your device, search for Bluetooth devices and select "ZUOYA GMK81" to pair. The keyboard supports pairing with multiple Bluetooth devices (up to 5).

Image: A visual representation of the ZUOYA GMK81's triple-mode connection capabilities, illustrating Bluetooth, 2.4GHz, and Type-C wired options for various devices.

2.2 VIA Programmability

The ZUOYA GMK81 is VIA programmable, allowing you to remap keys, create macros, and customize shortcuts. Download the VIA software from the official ZUOYA website. Connect the keyboard in wired mode to ensure proper detection by the software.

Gasket Structure

Screen

Multiple layers of sound-absorbing cotton makethe keyboard kit sound rich and non divergent

Upper Cover

PC Board

Poron Cotton

Ixpe Switch Pad

Circuit Board

Sponge

Silicone Pad

Bottom Shell

Image: The ZUOYA GMK81 keyboard displayed with a graphical user interface of the VIA software, demonstrating its programmability for key remapping and macro creation.

2.3 TFT Screen Customization

The integrated TFT screen can display custom GIF images, RGB backlight modes, and other useful information. Use the dedicated software (available on the ZUOYA website) to upload and manage content for the screen.

ZUOYA GMK81 Mechanical Kit

Gasket Structure	Multimedia Knob	Compatible with 3 pin 5 pin Switch	Lubricated Satellite Shaft	Bluetooth 5.0	2.4G Wireless Connection
Type-C Wired Connection	75% Layout	Endurance 3500mAh Builtin Ithium Battery	Dynamic RGB Lights	Musical Rhythm	Macro Driver Software
1000Hz Chip	Independent Stabilizer	TFT-LCD Screen	South Light Position	Support VIA	MAC IOS & Win

Image: A close-up view of the ZUOYA GMK81 keyboard's custom high-definition TFT screen, showing a dynamic image displayed on it. This feature allows users to personalize their keyboard with GIFs or other visuals.

Your browser does not support the video tag.

Video: This video demonstrates the ZUOYA GMK81 Hot Swap Mechanical Keyboard Kit with its integrated screen, showcasing its features and design. The screen displays various animations and information.

2.4 RGB Backlighting

The keyboard features full RGB backlighting with 16.8 million colors and dynamic effects. Customize lighting via the VIA software or using onboard shortcuts (refer to the quick start guide for specific key combinations). The south-facing RGB LEDs ensure vibrant illumination.

2.5 Multimedia Knob

The dedicated multimedia knob provides convenient control over volume and media playback. Rotate to adjust volume, press to mute/unmute, or customize its function via VIA software.

3. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your ZUOYA GMK81 keyboard.

3.1 Cleaning

- **Keycaps:** Use the provided keycap puller to remove keycaps. Clean them with a mild soap solution and a soft cloth, then rinse and dry thoroughly before reattaching.
- **Keyboard Base:** Use a soft brush or compressed air to remove dust and debris from between the switches. Wipe the surface with a slightly damp, lint-free cloth. Avoid excessive moisture.
- **TFT Screen:** Gently wipe the screen with a microfiber cloth. Do not use harsh chemicals or abrasive materials.

3.2 Switch and Stabilizer Care

The hot-swappable design allows for easy switch replacement. If a switch feels inconsistent, it can be replaced. Stabilizers are pre-lubed to reduce rattle; however, if needed, they can be re-lubed for a polished sound and feel.

4. TROUBLESHOOTING

If you encounter issues with your ZUOYA GMK81 keyboard, refer to the following common solutions:

4.1 Connectivity Issues

- **Wired Connection:** Ensure the USB-C cable is securely connected to both the keyboard and your computer. Try a different USB port or cable.
- **2.4GHz Wireless:** Verify the USB dongle is properly inserted and the keyboard is set to 2.4GHz mode. Try re-pairing by holding the Fn key + 4 (for 2.4Ghz mode) until the indicator light flashes.
- **Bluetooth Connection:** Ensure Bluetooth is enabled on your device and the keyboard is in Bluetooth pairing mode. Remove previous pairings from your device and re-pair. Try holding Fn + 1/2/3 to switch between Bluetooth profiles and initiate pairing.
- **Battery:** Ensure the keyboard battery is charged. Low battery can affect wireless performance.

4.2 Keys Not Responding

- **Loose Switch:** Carefully remove the keycap and switch. Reinsert the switch, ensuring pins are straight and fully seated in the hot-swap socket.
- **Faulty Switch:** If a specific key still doesn't work, the switch may be faulty. Replace it with a new one.
- **Software Conflict:** If multiple keys are affected, try resetting the keyboard to factory settings (refer to the quick start guide for instructions) or reinstalling the VIA software.

4.3 RGB Lighting Issues

- **No Lights:** Ensure the keyboard is powered on and connected. Check brightness settings via onboard controls or VIA software.
- **Inconsistent Lights:** Verify all switches are properly seated. If an individual LED is faulty, it may require professional repair.

5. SPECIFICATIONS

Feature	Detail
Model Number	GMK81
Layout	75% (81 keys)
Connectivity	Bluetooth 5.0 / 2.4GHz Wireless / Type-C Wired (Tri-Mode)
Hot-Swappable	Yes (3-pin/5-pin mechanical switches)
Mounting Style	Gasket-Mounted
Backlighting	Full RGB (16.8 Million Colors, South-Facing LEDs)
Programmability	VIA Software Support
Display	Customizable TFT Screen
Battery Capacity	3000mAh (Rechargeable)
Compatible Devices	PC, Laptops, Tablets, Mobile Phones (Win/Mac dual compatibility)
Item Weight	1.9 pounds
Package Dimensions	14.6 x 4.8 x 1.3 inches
Material	Plastic
Included Components	100 x Keycaps (if included in your specific kit)

6. WARRANTY AND SUPPORT

ZUOYA products are designed for quality and durability. For specific warranty information, please refer to the warranty card included with your product or visit the official ZUOYA website.

For technical support, troubleshooting assistance, or to download the latest software and drivers, please visit the ZUOYA official support page or contact customer service through the details provided on the product packaging or website.

Online Resources:

- ZUOYA Official Store on Amazon
- VIA Software Download: Refer to the official ZUOYA website for the latest VIA software.