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EPOMAKER AK966

EPOMAKER Ajazz AK966 96-Key Mechanical Keyboard User Manual

Introduction

Thank you for choosing the EPOMAKER Ajazz AK966 96-Key Mechanical Keyboard. This manual provides comprehensive instructions to help you set up, operate, and maintain your new keyboard. The AK966 features a compact 96-key layout, hot-swappable switches, triple mode connectivity (wired, 2.4GHz wireless, and Bluetooth 5.0), a gasket-mounted design with Poron foam for enhanced acoustics, and durable MDA PBT keycaps. Please read this manual carefully to ensure optimal performance and longevity of your device.

Image: The Ajazz AK966 keyboard, showcasing its compact 96-key layout compared to a standard 104-key keyboard, highlighting a 20% space saving.

Package Contents

Please verify that all items are present in your package:

- EPOMAKER Ajazz AK966 Mechanical Keyboard
- USB Type-C Cable
- 2.4GHz USB Receiver
- 2-in-1 Keycap & Switch Puller
- Dust Cover
- Extra Mac Keycaps (Control, Option, Command)
- Kailh Switch Tester (sample switches)
- Metal Knob (pre-installed or spare)

- User Manual (this document)

Image: A visual representation of the items included in the AK966 package, such as the keyboard, USB cable, dust cover, keycap/switch puller, Mac keycaps, Kailh switch tester, and the instruction manual.

Product Features

- **96-Key Hot-Swappable Layout:** Compact design retaining essential keys, allowing for easy switch replacement without soldering.
- **Triple Mode Connectivity:** Seamlessly switch between wired (USB Type-C), 2.4GHz wireless, and Bluetooth 5.0 connections.
- **Gasket Structure with 3-Layer Poron Foam:** Provides significant sound absorption and a softer, more comfortable typing experience.
- **Custom Kailh MX Cream Switches:** Factory-lubricated switches offering a smooth and responsive typing feel with a long lifespan.
- **10,000 mAh High-Capacity Battery:** Ensures extended wireless usage, up to 1200 hours standby with lights off, or

50 hours with lights on.

- **MDA PBT Keycaps:** Ergonomically designed keycaps made from durable PBT material for comfortable and long-lasting use.
- **RGB Backlighting:** Customizable RGB lighting effects to personalize your typing environment.

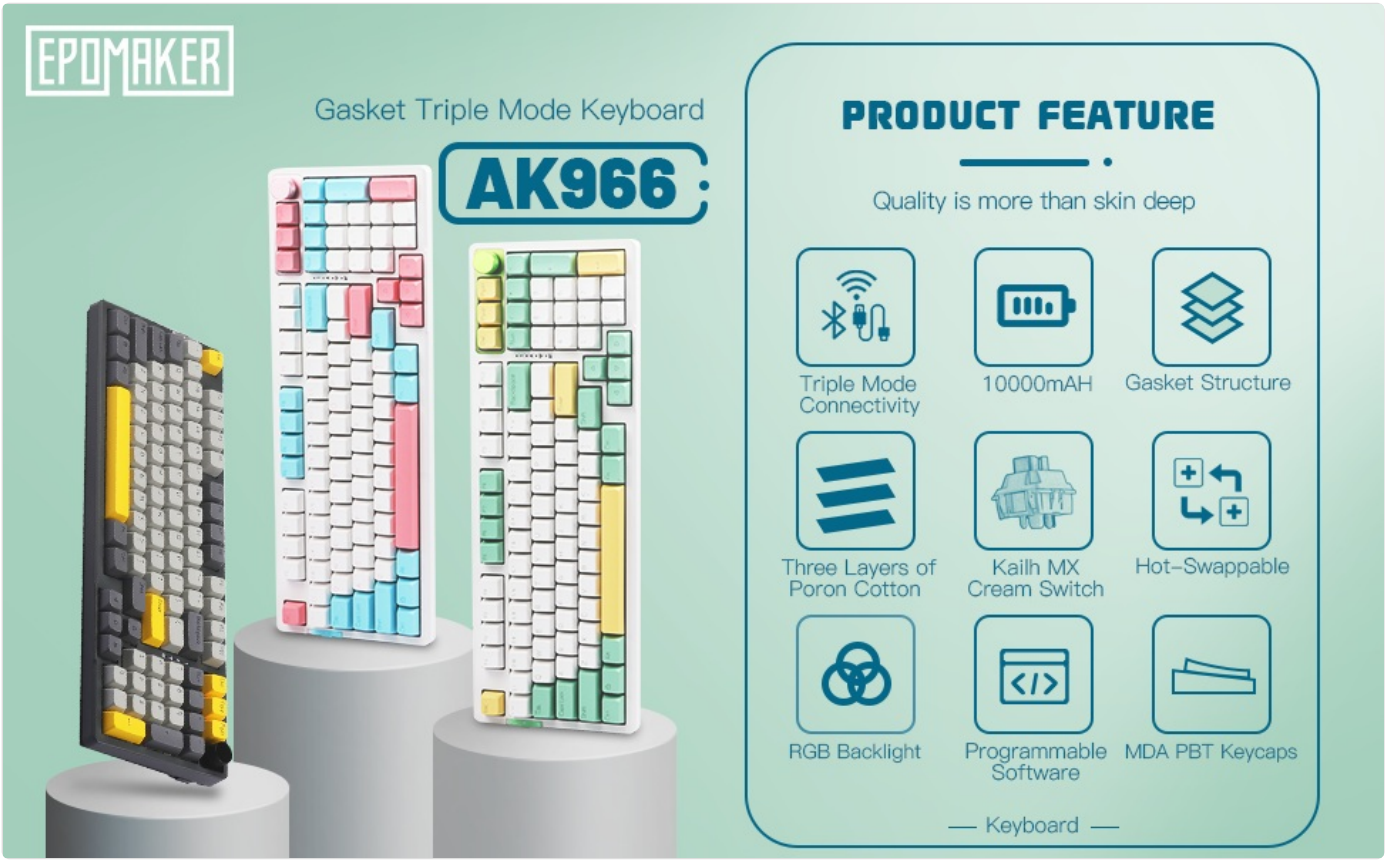

Image: A graphic summarizing the key features of the AK966 keyboard, including triple mode connectivity, 10000mAh battery, gasket structure, Poron foam, Kailh MX Cream switches, hot-swappable design, RGB backlight, programmable software, and MDA PBT keycaps.

Setup and Connectivity

The AK966 keyboard supports three connection modes: wired, 2.4GHz wireless, and Bluetooth 5.0. You can connect to up to 5 devices simultaneously (1 via 2.4GHz, 3 via Bluetooth, 1 via wired).

Image: An illustration demonstrating the triple mode connectivity of the AK966 keyboard, showing connections to a desktop PC (wired), a laptop (2.4GHz wireless), and a tablet (Bluetooth), along with a 10000mAh battery indicator.

1. Wired Connection

1. Locate the USB Type-C port on the keyboard.
2. Connect one end of the provided USB Type-C cable to the keyboard and the other end to a USB port on your computer.
3. Ensure the mode switch on the side of the keyboard is set to the wired mode (usually indicated by a cable icon or 'OFF' position if it's a 3-way switch).
4. The keyboard will be automatically recognized by your computer.

2. 2.4GHz Wireless Connection

1. Locate the 2.4GHz USB receiver, usually stored in a slot on the keyboard.
2. Plug the 2.4GHz USB receiver into an available USB port on your computer.
3. Set the mode switch on the side of the keyboard to the 2.4GHz wireless mode (usually indicated by a wireless icon).

4. The keyboard should connect automatically. If not, press **FN + 4** to activate 2.4GHz pairing mode.

Image: A close-up view of the 2.4G receiver slot on the side of the AK966 keyboard, showing where the USB dongle is stored.

3. Bluetooth 5.0 Connection

1. Set the mode switch on the side of the keyboard to Bluetooth mode (usually indicated by a Bluetooth icon).
2. To enter pairing mode, press and hold **FN + 1**, **FN + 2**, or **FN + 3** for 3-5 seconds. The indicator light for the selected channel will flash rapidly.
3. On your device (computer, smartphone, tablet), open Bluetooth settings and search for new devices.
4. Select "AK966" from the list of available devices to pair.
5. Once paired, the indicator light will stop flashing and remain solid for a few seconds before turning off.
6. To switch between paired Bluetooth devices, simply press **FN + 1**, **FN + 2**, or **FN + 3**.

Image: A close-up view of the connection mode switch on the side of the AK966 keyboard, allowing users to select between wired, 2.4GHz, and Bluetooth modes.

Operating Instructions

RGB Lighting Control

The AK966 features customizable RGB backlighting. Use the following key combinations to adjust the lighting effects:

- **FN + \|:** Switch RGB Effects (cycle through various lighting modes).
- **FN + →:** Switch Light Color (change the color within certain effects).
- **FN + ↑:** Increase Backlight Brightness.
- **FN + ↓:** Decrease Backlight Brightness.
- **FN + /:** Increase Light Speed (for dynamic effects).
- **FN + =:** Decrease Light Speed (for dynamic effects).

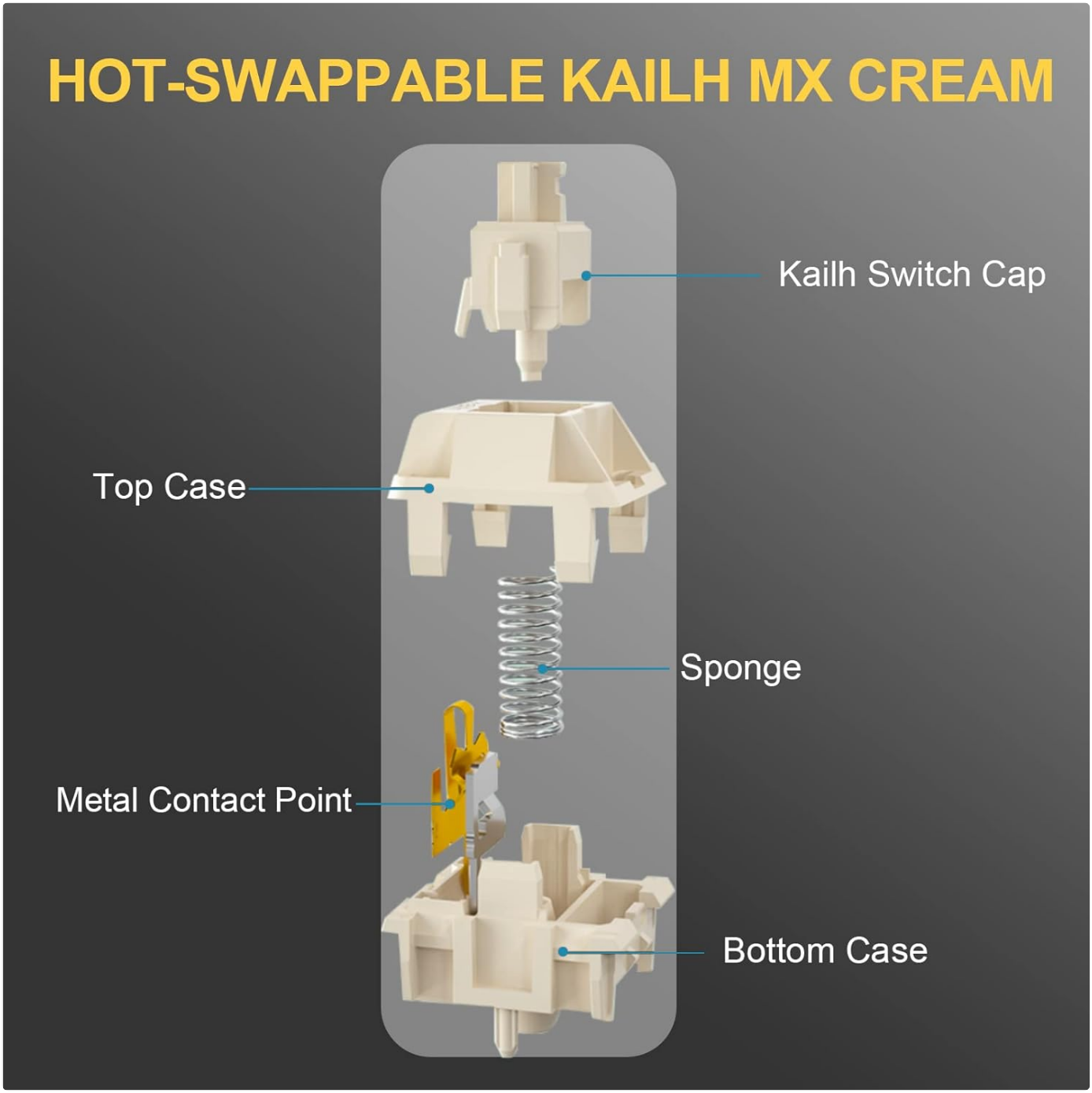

Image: The AK966 keyboard displaying various RGB lighting effects, along with a diagram illustrating the function key combinations for controlling RGB effects, light color, brightness, and speed.

Function Key Combinations

The keyboard includes a dedicated function row and a volume knob for convenience. Use the FN key in combination with other keys for additional functionalities:

Combination	Function
FN + F1-F12	Standard multimedia and system functions (e.g., media control, volume, brightness). Specific functions may vary by operating system.
FN + Win	Lock/Unlock Windows Key
Volume Knob	Rotate to adjust system volume. Press to mute/unmute.

Battery Management

The AK966 is equipped with a 10,000 mAh battery for extended wireless use. To charge the keyboard, connect it via the USB Type-C cable to a power source (e.g., computer USB port, wall adapter). The indicator light will show charging status.

- **Standby Time:** Up to 1200 hours (with backlighting off).
- **Working Time:** Up to 50 hours (with backlighting on, based on laboratory tests).

Hot-Swappable Switches

The AK966 features a hot-swappable PCB, allowing you to change mechanical switches without soldering. This provides flexibility to customize your typing feel.

Replacing Switches:

1. Using the provided 2-in-1 puller, gently remove the keycap from the switch.
2. Insert the switch puller's prongs into the two clips on the top and bottom of the switch.
3. Gently squeeze the clips and pull the switch straight up to remove it from the PCB.
4. Align the pins of the new switch with the holes on the PCB. Ensure the pins are straight to avoid bending.
5. Press the new switch firmly into place until it clicks.
6. Re-attach the keycap.

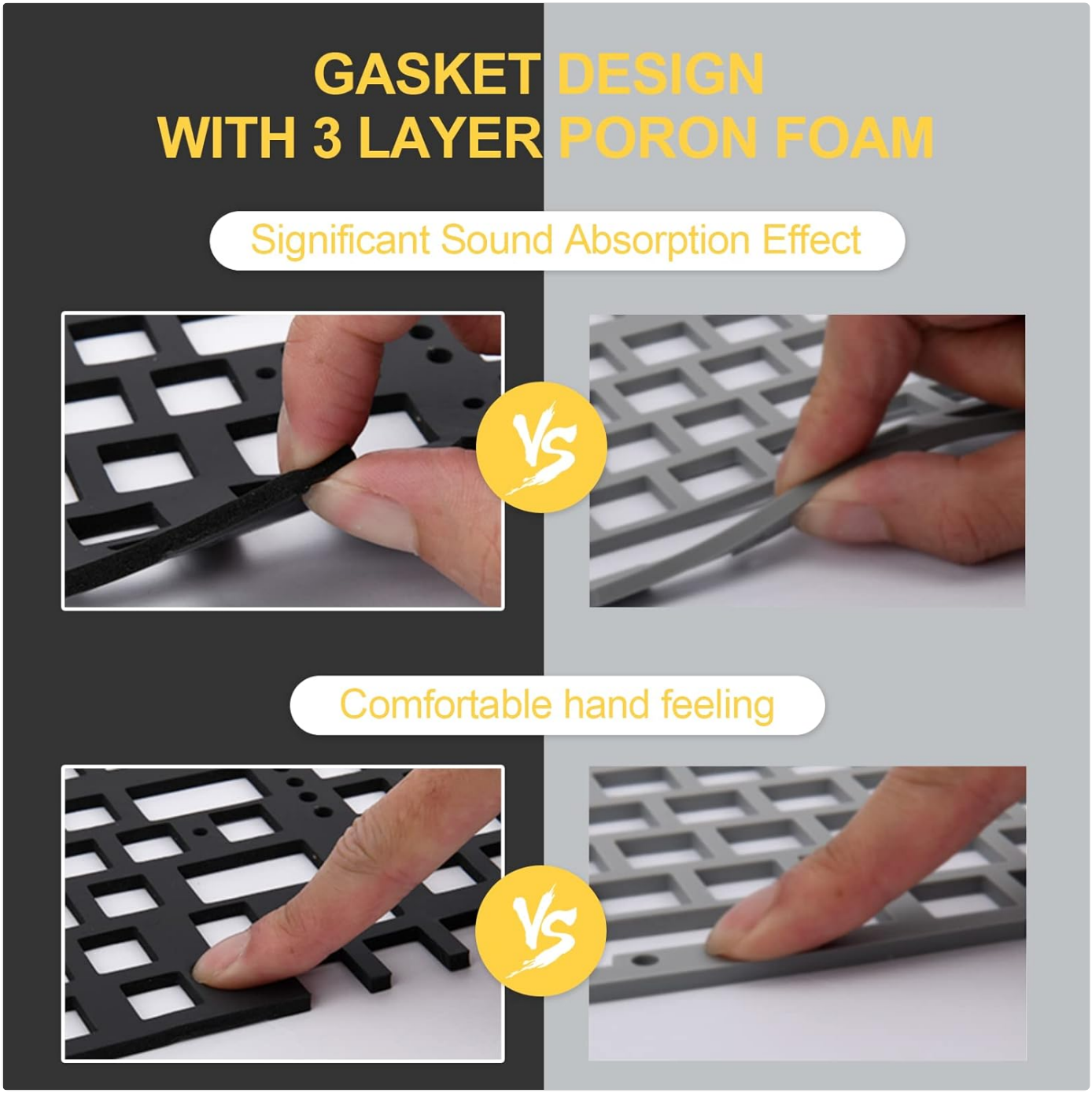

Image: A detailed exploded diagram of a Kailh MX Cream switch, showing its internal components including the switch cap, top case, spring, sponge, metal contact point, and bottom case.

Gasket Structure and Sound Absorption

The AK966 utilizes a gasket-mounted design with three layers of Poron foam. This construction significantly reduces hollow sounds and provides a softer, more consistent typing feel by isolating the PCB and plate from the keyboard case.

Image: A visual comparison illustrating the gasket design with 3-layer Poron foam for sound absorption and comfortable hand feeling, contrasting it with a standard keyboard structure.

Image: A close-up view of the three layers of Poron foam, highlighting their texture and thickness, which contribute to the keyboard's sound absorption.

KEYCAPS

The AK966 comes with MDA profile PBT keycaps. PBT material is known for its durability and resistance to shine over time, while the MDA profile offers a comfortable, sculpted typing surface.

Image: A close-up of the dye-sublimated MDA profile PBT keycaps, showcasing their unique shape and legends.

Ergonomics and Cable Management

The keyboard is designed with user comfort and convenience in mind.

- **Two-Stage Kickstand:** Adjustable feet on the underside of the keyboard allow you to set your preferred typing angle.
- **Three-Way Cable Export:** The USB-C port is designed to allow the cable to exit from the left, right, or center of the keyboard, helping with desk organization.

Image: A close-up of the two-stage kickstand on the underside of the keyboard, illustrating its adjustable height settings.

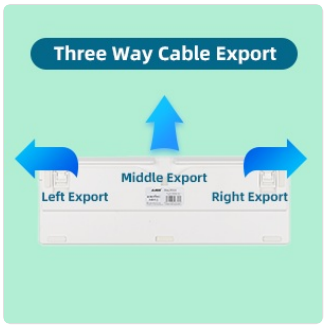

Image: The underside of the keyboard showing the three-way cable export channels (left, middle, right) for flexible cable routing.

Maintenance

Cleaning the Keyboard

To maintain the appearance and functionality of your keyboard:

- Disconnect the keyboard from your computer before cleaning.
- Use a soft, lint-free cloth slightly dampened with water or a mild cleaning solution to wipe the keycaps and case.

- For deeper cleaning, you can remove keycaps using the provided keycap puller and clean underneath with compressed air or a small brush.
- Avoid using harsh chemicals or abrasive materials that could damage the keyboard's finish.

Troubleshooting

If you encounter issues with your AK966 keyboard, please refer to the following common solutions:

- **Keyboard not responding:** Ensure the keyboard is properly connected (wired) or paired (wireless). Check the mode switch.
- **Wireless connection issues:** Make sure the 2.4GHz receiver is securely plugged in or that Bluetooth is enabled on your device. Try re-pairing.
- **Keys not registering:** If a specific key is not working, try removing and re-inserting the switch. If the issue persists, the switch may need replacement.
- **Backlighting not working:** Check the brightness settings using FN key combinations. Ensure the keyboard battery is charged.
- **Lag or delay in wireless mode:** Ensure the keyboard is within range of the receiver/device. Reduce interference from other wireless devices.
- **Battery not charging:** Try a different USB-C cable or USB port. Ensure the power source is functional.

Specifications

Feature	Detail
Brand	EPOMAKER
Model	AK966
Color	Starry Night
Number of Keys	96
Connectivity Technology	Bluetooth 5.0, 2.4GHz Wireless, USB Type-C Wired
Keyboard Description	Mechanical
Special Features	Ergonomic, Rechargeable, Volume Roller, Backlit, Customizable Display Key
Compatible Devices	Computer, Laptop, Smartphone, Tablet
Keyboard Backlight Color Management	RGB
Battery Capacity	10,000 mAh

Warranty and Support

EPOMAKER products are designed for quality and reliability. For specific warranty information, please refer to the warranty card included in your product packaging or visit the official EPOMAKER website. If you require technical support or have any questions not covered in this manual, please contact EPOMAKER customer service through their official channels.