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Redragon K684

Redragon K684 Mechanical Wireless Keyboard User Manual

Model: K684

Introduction

The Redragon K684 is a versatile mechanical wireless keyboard designed for both gaming and office use. It features a compact 96-key layout, offering a full set of keys including a numeric keypad and arrow keys, while saving desktop space. The keyboard supports three connection modes: Bluetooth 3.0/5.0, 2.4GHz wireless, and wired USB-C, ensuring broad compatibility across Windows, macOS, Android, and Linux operating systems. It also boasts customizable 16.8 million color RGB backlighting with multiple preset modes and software support for advanced customization.

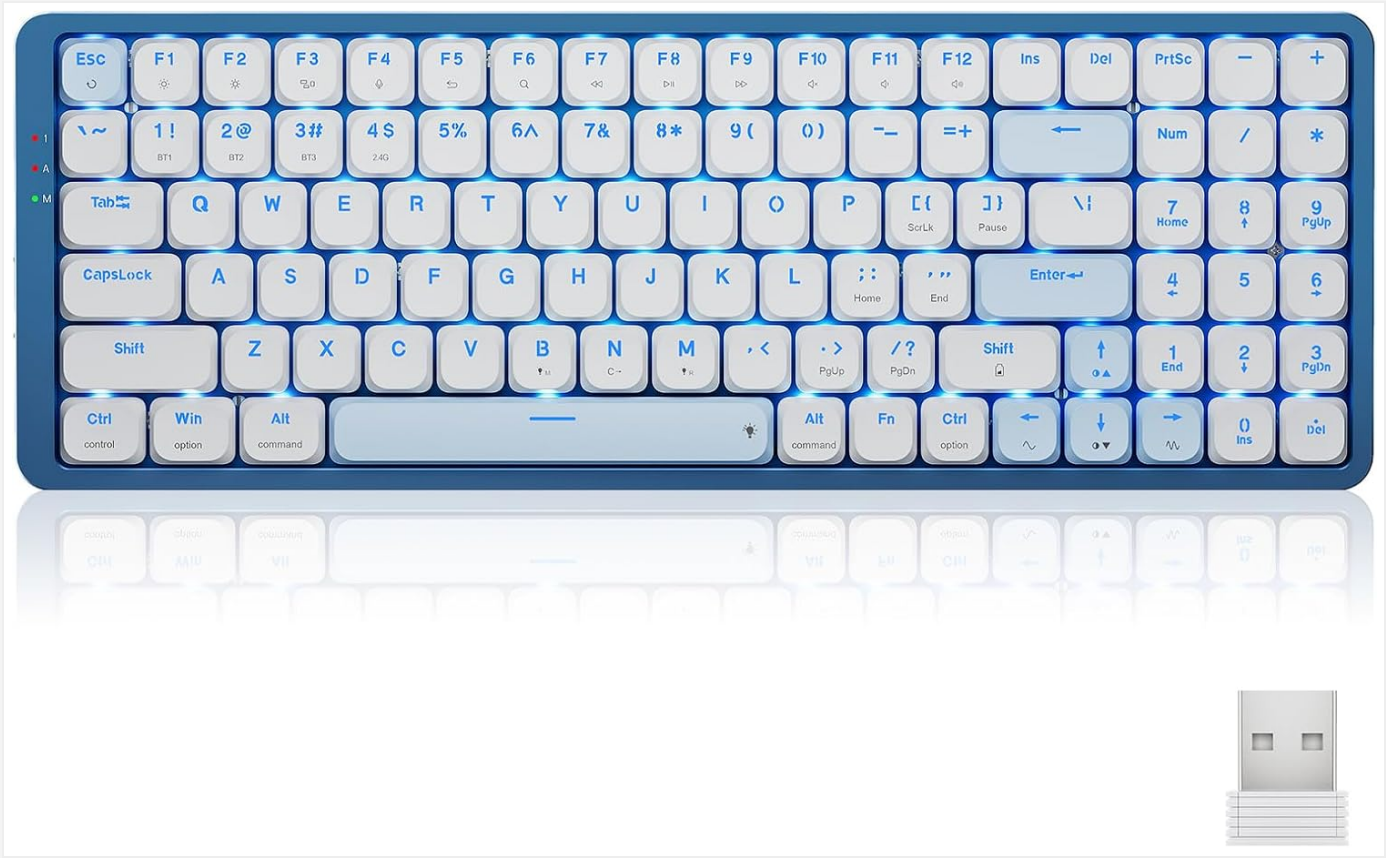


Figure 1: Redragon K684 Mechanical Wireless Keyboard in blue and white.

Package Contents

Please ensure all items are present in the package:

- 1 x Redragon K684 Mechanical Wireless Keyboard
- 4 x Extra Switches
- 1 x USB-C Cable
- 1 x 2.4GHz USB Dongle
- 1 x Keycap Puller
- 1 x Switch Puller
- 1 x User Manual (this document)



Figure 2: Included accessories with the Redragon K684 keyboard, including extra switches, USB-C cable, and tools.

Setup

1. Connection Modes

The Redragon K684 keyboard offers three distinct connection methods to suit various setups and devices:

1. **Wired Connection (USB-C):** Connect the provided USB-C cable from the keyboard to your computer's USB port. The keyboard will automatically be recognized and powered.
2. **2.4GHz Wireless Connection:**
    a. Locate the 2.4GHz USB dongle, typically stored in a dedicated slot on the keyboard (refer to Figure 3).
    b. Plug the dongle into an available USB port on your computer.
    c. Switch the connection mode selector on the keyboard to "2.4G". The keyboard will automatically connect to the dongle.
3. **Bluetooth Connection (BT1, BT2, BT3):** The keyboard supports connecting up to three Bluetooth devices simultaneously.
    a. Switch the connection mode selector on the keyboard to "BT".
    b. Press and hold **FN + 1!**, **FN + 2@**, or **FN + 3#** for 3 seconds to enter pairing mode for BT1, BT2, or BT3 respectively. The corresponding indicator light will flash rapidly.
    c. On your device (computer, tablet, smartphone), enable Bluetooth and search for "Redragon K684" or similar.
    d. Select the keyboard to pair. Once connected, the indicator light will stop flashing and remain solid.
    e. To switch between paired Bluetooth devices, simply press **FN + 1!**, **FN + 2@**, or **FN + 3#**.



Figure 3: The Redragon K684 keyboard demonstrating its three connection modes: Bluetooth, 2.4GHz wireless, and wired USB-C, compatible with Windows and Mac systems.



Figure 4: Detail view of the Redragon K684 keyboard's USB-C port and the 2.4GHz wireless dongle, highlighting the wired and 2.4GHz wireless connection options.

2. System Compatibility Switch

The keyboard features a dedicated switch to toggle between Windows and macOS layouts, ensuring optimal functionality for your operating system. Locate the "WIN/MAC" switch on the side of the keyboard and set it to your desired system.

3. Software Installation

For advanced customization of RGB lighting, macro editing, and key assignments, download and install the official Redragon K684 software. The software works only in wired connection mode.

Your browser does not support the video tag.

Video 1: This video demonstrates how to set your Redragon K684 keyboard to a single color backlight using the software.

Your browser does not support the video tag.

Video 2: This video provides instructions on how to download and install the software for the Redragon K684 keyboard.

Operating Instructions

1. Basic Key Functions

The K684 features a 96-key layout, which includes a full numeric keypad and dedicated arrow keys, providing comprehensive functionality in a compact form factor. All standard alphanumeric and function keys operate as expected.



Figure 5: The Redragon K684 keyboard showcasing its 96% layout, which includes a full numeric keypad and arrow keys for enhanced functionality.

2. Multimedia and FN Key Combinations

Utilize the Function (FN) key in combination with other keys to access multimedia controls and additional functions. Specific combinations are typically marked on the keycaps.

3. Backlight Customization

The K684 features a customizable 16.8 million color RGB backlight. You can cycle through 20 different preset RGB lighting modes and 8 different pure colors directly from the keyboard. Adjust brightness and breathing speed to your preference. For more detailed customization, use the dedicated software (see Setup section).



Figure 6: The Redragon K684 keyboard's software interface, illustrating options for macro editing, switch backlight customization, and key assignment.

4. Battery Management

The keyboard is equipped with a 1600 mAh battery, providing extended usage time. When the battery is low, the indicator light will signal the need for charging. Connect the keyboard via USB-C cable to charge it. The keyboard can be used while charging.



Figure 7: Visual representation of the Redragon K684 keyboard's 1600 mAh battery, offering up to 100 hours of standby time.

Maintenance

1. Cleaning

To maintain optimal performance and appearance, regularly clean your keyboard. Use a soft, dry cloth to wipe down the keycaps and chassis. For deeper cleaning, you may use a can of compressed air to remove dust and debris from between the keys. Avoid using harsh chemicals or abrasive materials.

2. Switch and Keycap Replacement

The Redragon K684 features hot-swappable switches, allowing for easy replacement of individual switches without soldering. Use the provided keycap puller to carefully remove the keycap, then use the switch puller to extract the switch. Insert a new switch, ensuring the pins align correctly, and then reattach the keycap.

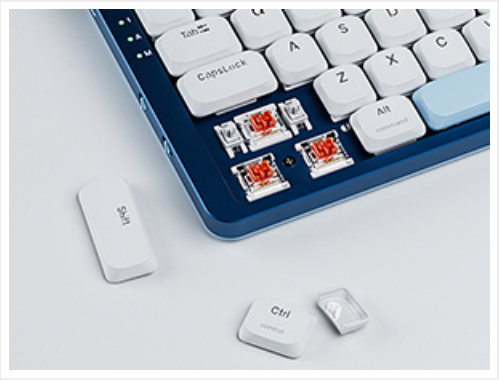


Figure 8: Detailed view of the Redragon K684 keyboard with keycaps and switches removed, demonstrating the hot-swappable design for easy maintenance and customization.

Troubleshooting

Problem	Possible Cause	Solution
Keyboard not responding (wired)	Loose cable connection, faulty USB port.	Ensure USB-C cable is securely connected to both keyboard and computer. Try a different USB port or cable.
2.4GHz wireless connection issues	Dongle not plugged in, keyboard not in 2.4G mode, interference.	Verify dongle is inserted and keyboard switch is set to "2.4G". Move keyboard closer to the dongle or try a different USB port.
Bluetooth pairing/connection failure	Keyboard not in pairing mode, device Bluetooth off, incorrect pairing.	Ensure keyboard is in Bluetooth pairing mode (FN + 1/2/3 for 3s). Check device Bluetooth settings. Forget device and re-pair.
Backlight not working or incorrect colors	Backlight turned off, low brightness, software conflict.	Adjust brightness levels. Cycle through lighting modes. If using software, ensure settings are applied and try reinstalling software if issues persist.
Keys not registering or "ghosting"	Faulty switch, software issue, or multiple key presses not registering.	Try replacing the problematic switch with an extra one. Ensure software is up-to-date. If the issue persists, contact customer support.
Software not recognizing keyboard	Keyboard not in wired mode, driver issue.	Ensure keyboard is connected via USB-C cable. Reinstall the software and drivers.

Specifications

Model: K684

Brand: Redragon

Connectivity: Bluetooth (3.0/5.0), 2.4GHz Wireless, USB-C Wired

Keyboard Description: Mechanical

Switch Type: Low Profile Red Switch

Number of Keys: 96

Backlighting: Customizable 16.8 million color RGB

Battery: 1600 mAh Lithium Polymer (included)

Compatible Devices: Laptop, PC, Tablet

Operating Systems: Windows, macOS, Android, Linux

Product Dimensions: 6.5 x 1.4 x 15.5 inches

Item Weight: 1.7 pounds

Manufacturer: Redragon

First Available: May 30, 2024



Figure 9: Detailed view of the Redragon K684's low-profile design, showing the keycap and red mechanical switch with their respective heights.

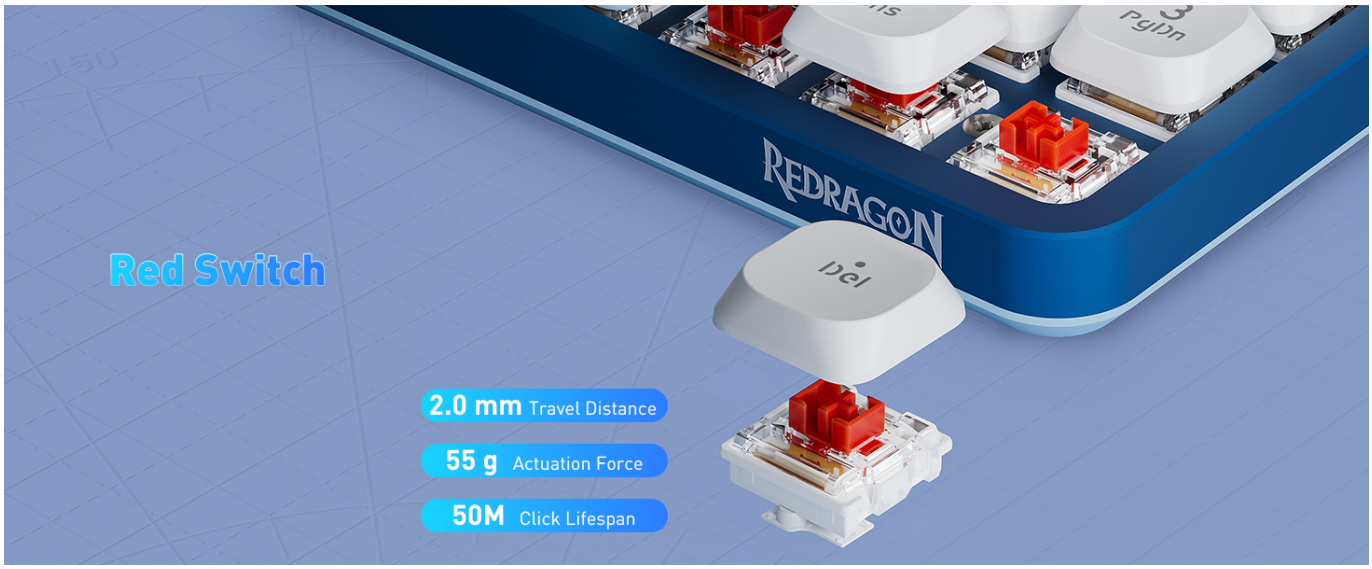


Figure 10: Specifications for the Redragon K684's Red Switches, including 2.0mm travel distance, 55g actuation force, and 50 million click lifespan.

Warranty and Support

Redragon products typically come with a manufacturer's warranty. For specific warranty details, support inquiries, or technical assistance, please refer to the warranty card included with your product or visit the official Redragon website. You can also find more information and contact options on the Redragon Store on Amazon.

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