

## Keychron Q4

# Keychron Q4 Wired Custom Mechanical Keyboard User Manual

Model: Q4

## 1. INTRODUCTION

The Keychron Q4 is a fully customizable mechanical keyboard featuring a compact 60% layout. Constructed with a solid full aluminum frame, the Q4 is designed for easy assembly and personalized typing. It supports QMK/VIA for advanced key remapping and macro programming, and includes hot-swappable switches for user-defined switch preferences. The double-gasket design and internal sound-absorbing foams contribute to a refined typing experience.

### Keychron Q4 QMK Custom Mechanical Keyboard

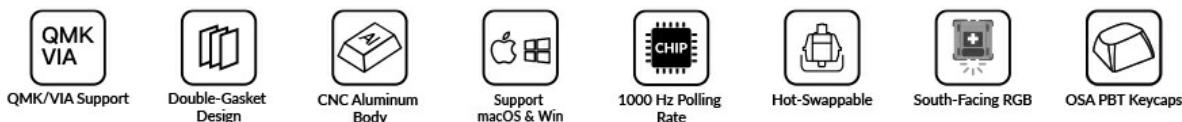


Image 1.1: Keychron Q4 keyboard highlighting key features like QMK/VIA support, double-gasket design, CNC aluminum body,

macOS & Windows compatibility, 1000 Hz polling rate, hot-swappable switches, south-facing RGB, and OSA PBT keycaps.



Image 1.2: The Keychron Q4 keyboard integrated into a typical desk setup, connected via USB-C.

## 2. SETUP

### 2.1 Package Contents

Before beginning, verify that all components are present in the box:

## In The Box Keychron Q4



### Keyboard

1x Fully Assembled Keyboard

#### Including

1x Aluminum Case

1x PCB

1x Steel Plate

1x Sound Absorbing Foam

1x Case Foam

12x Gaskets (8 Installed and 4 in the Box)

5 sets x Stabilizers

1 set x Keycaps (Double-Shot PBT)

1 set x Switches (Gateron G Pro)

### Cable

1x Type-C to Type-C Cable

1x Type-A to Type-C Adapter

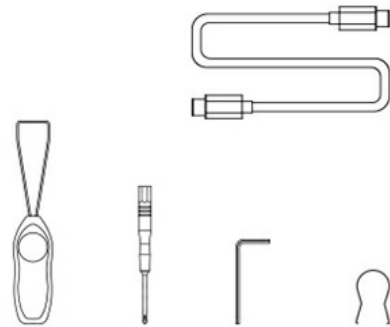
### Tools

1x Switch Puller

1x Keycap Puller

1x Screwdriver

1x Hex Key



**Please Note:** All tools are placed on bottom of the box

Image 2.1: Diagram illustrating the contents of the Keychron Q4 package, including the fully assembled keyboard, cables, and tools.

- **Keyboard:** 1x Fully Assembled Keyboard (including 1x Aluminum Case, 1x PCB, 1x Steel Plate, 1x Sound Absorbing Foam, 1x Case Foam, 12x Gaskets (8 Installed and 4 in the Box), 5 sets x Stabilizers, 1 set x Keycaps (Double-Shot PBT), 1 set x Switches (Gateron G Pro))
- **Cable:** 1x Type-C to Type-C Cable, 1x Type-A to Type-C Adapter
- **Tools:** 1x Switch Puller, 1x Keycap Puller, 1x Screwdriver, 1x Hex Key

*Note: All tools are located on the bottom of the box.*

## 2.2 Connectivity

Connect the Keychron Q4 keyboard to your computer using the provided USB-C cable. The keyboard is compatible with both macOS and Windows operating systems.

## 2.3 Operating System Switch

The keyboard features a physical switch to toggle between macOS and Windows layouts. Locate the switch on the side or back of the keyboard and set it to your desired operating system.



Image 2.2: Close-up of the physical switch on the keyboard for selecting between Windows and macOS operating system layouts.

## 3. OPERATION

### 3.1 Basic Key Functions

The Keychron Q4 features a 60% layout, which means some keys may have secondary functions accessed via the 'Fn' key. Refer to the keycap legends for these functions.



## 60% Layout Keyboard

Image 3.1: A detailed view of the Keychron Q4's 60% keyboard layout, showing the compact arrangement of keys.

### 3.2 South-Facing RGB Backlighting

The keyboard is equipped with south-facing RGB LEDs. This design ensures that the backlight effectively illuminates the keycap legends from the typist's perspective, especially with non-shine-through PBT keycaps.



# South-facing RGB LED Lights



Image 3.2: A close-up view of the south-facing RGB LED lights illuminating the mechanical switches beneath the keycaps.

## 4. CUSTOMIZATION

### 4.1 QMK and VIA Programmability

The Keychron Q4 supports full QMK and VIA functionality, allowing users to program and remap each key and create custom macros. To utilize this feature:

1. Connect the Q4 to your device via the USB-C cable.
2. Download and install the VIA software.
3. Import the Q4 keymap JSON file into the VIA software.
4. Use the drag-and-drop interface within VIA to remap keys or assign macro commands for macOS, Windows, or Linux operating systems.

Refer to the official Keychron website for detailed instructions and the latest VIA software and keymap files.



Image 4.1: The Keychron Q4 keyboard displayed alongside the VIA software interface, demonstrating key remapping capabilities.



Image 4.2: A detailed view of the VIA software interface, showing the keymap configuration for the Keychron Q4.

## 4.2 Hot-Swappable Switches

The Keychron Q4 features a hot-swappable PCB, allowing you to change mechanical switches without soldering. It supports most 3-pin and 5-pin MX-style mechanical switches (e.g., Cherry, Gateron, Kailh, Panda).

### Replacing Switches:

1. Carefully remove the keycap using the provided keycap puller.
2. Use the switch puller to gently grip the switch and pull it straight up from the PCB.
3. Align the pins of the new switch with the holes on the PCB. Ensure the pins are straight to avoid bending.
4. Press the new switch firmly into place until it clicks.
5. Replace the keycap.



## Hot-swappable PCB supports both 3 pin and 5 pin MX mechanical switches.



Image 4.3: A close-up view of the keyboard's PCB with several switches removed, demonstrating the hot-swappable feature.

### 4.3 Double-Gasket Design and Internal Foams

The Q4 incorporates a double-gasket design, which enhances typing flexibility and improves the overall sound profile. Additionally, sound-absorbing and case foams are installed internally to reduce resonance and noise between metal components. Each keyboard component is designed for easy reassembly, allowing for further customization.



Image 4.4: An exploded diagram showing the various layers of the Keychron Q4, including keycaps, switches, top case, gaskets, plate, PCB, sound absorbing foam, silicone gaskets, case foam, and bottom case.

## 5. MAINTENANCE

### 5.1 Cleaning the Keyboard

To maintain optimal performance and appearance, regular cleaning is recommended:

- **Keycaps:** Use the keycap puller to remove keycaps. Clean them with a mild soap solution and a soft cloth, then rinse thoroughly and allow them to dry completely before reattaching.
- **Keyboard Body:** Use a soft, lint-free cloth, slightly dampened with water or a gentle cleaning solution, to wipe down the aluminum frame. Avoid excessive moisture.
- **Between Keys:** Use compressed air to remove dust and debris from between the switches. A small brush can also be used for stubborn particles.

Avoid using harsh chemicals or abrasive materials, as these can damage the keyboard's finish or components.

## 6. TROUBLESHOOTING

### 6.1 Keys Not Responding

- **Check Connectivity:** Ensure the USB-C cable is securely connected to both the keyboard and the computer. Try a different USB port or cable.

- **Verify OS Switch:** Confirm the macOS/Windows switch is set to the correct operating system.
- **Inspect Switches:** If individual keys are not responding, carefully remove the keycap and then the switch using the switch puller. Inspect the switch pins for any bends or damage. Straighten bent pins gently with tweezers or replace the switch if damaged. Reinsert the switch firmly.
- **QMK/VIA Configuration:** If keys are remapped incorrectly, check your keymap configuration in the VIA software.

## 6.2 Backlighting Issues

- **Brightness Adjustment:** Ensure the backlight brightness is not set to its lowest level. Use the designated key combinations (often Fn + arrow keys or similar) to adjust brightness.
- **Software Control:** If using QMK/VIA, verify that lighting settings are correctly configured.

## 6.3 Keyboard Not Recognized by Computer

- **Restart Computer:** A simple restart can often resolve connectivity issues.
- **Try Another Computer:** Test the keyboard on a different computer to determine if the issue is with the keyboard or the original computer's setup.
- **Firmware Update:** Check the Keychron website for any available firmware updates for the Q4 model. Follow the instructions carefully for firmware installation.

# 7. SPECIFICATIONS

Product Dimensions	11.93 x 4.76 x 0.78 inches (30.3 x 12.1 x 2.0 cm)
Item Weight	4.66 pounds (2.11 kg)
Manufacturer	Keychron
Item Model Number	Keychron Q4
Compatible Devices	PC (macOS, Windows, Linux)
Connectivity Technology	USB-C
Keyboard Description	Mechanical
Special Feature	Backlit (South-facing RGB)
Color	Black (Gateron G Pro Brown Switch)
Material	Aluminum, Polybutylene Terephthalate (PBT)
Included Components	Keyboard, USB-C Cable, Type-A to Type-C Adapter, Switch Puller, Keycap Puller, Screwdriver, Hex Key

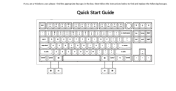





## 8. WARRANTY AND SUPPORT

For warranty information, technical support, and additional resources, please visit the official Keychron website or contact Keychron customer service.

You can find more information and support at the [Keychron Store](#).

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### Related Documents - Q4

	<a href="#">Keychron Q3 Knob Version Quick Start Guide</a> A quick start guide for the Keychron Q3 Knob Version mechanical keyboard, covering system switching, VIA software usage, layers, backlighting, warranty, and factory reset.
	<a href="#">Keychron K13 Pro Bluetooth Mechanical Keyboard User Manual</a> Comprehensive user manual for the Keychron K13 Pro Bluetooth Mechanical Keyboard, covering setup, features, customization, troubleshooting, and specifications. Learn how to connect, use VIA software, manage backlight, and more.
	<a href="#">Keychron V5 Max Quick Start Guide</a> A comprehensive guide to setting up and using the Keychron V5 Max custom wireless mechanical keyboard, covering 2.4GHz, Bluetooth, and wired connections, backlighting, key rollover, VIA software, and troubleshooting.
	<a href="#">Keychron K10 Wireless Mechanical Keyboard Version 2 User Manual</a> This document provides a comprehensive user manual for the Keychron K10 Wireless Mechanical Keyboard Version 2, covering setup, features, troubleshooting, and specifications. Learn how to connect via Bluetooth or wired mode, customize backlighting, manage layers, and utilize the Keychron Launcher app.
	<a href="#">Keychron K8 Pro Bluetooth Mechanical Keyboard User Manual and Guide</a> Comprehensive guide for the Keychron K8 Pro Bluetooth Mechanical Keyboard, covering setup, features, key mapping, troubleshooting, and specifications. Learn how to connect, customize, and use your keyboard with Mac, Windows, and iOS devices.
	<a href="#">Keychron K8 Pro TKL Mechanical Keyboard User Guide</a> A comprehensive guide to the Keychron K8 Pro, a TKL mechanical keyboard. Learn how to connect, customize with VIA software, adjust backlighting, and troubleshoot.