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IQUNIX EZ80

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USER MANUAL

Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your IQUNIX EZ80 Magnetic Switch Hall Effect Gaming Keyboard. Designed for high-performance gaming and efficient daily use, the EZ80 features advanced magnetic switches and a durable aluminum construction. Please read this manual thoroughly to ensure proper usage and to maximize your keyboard's potential.

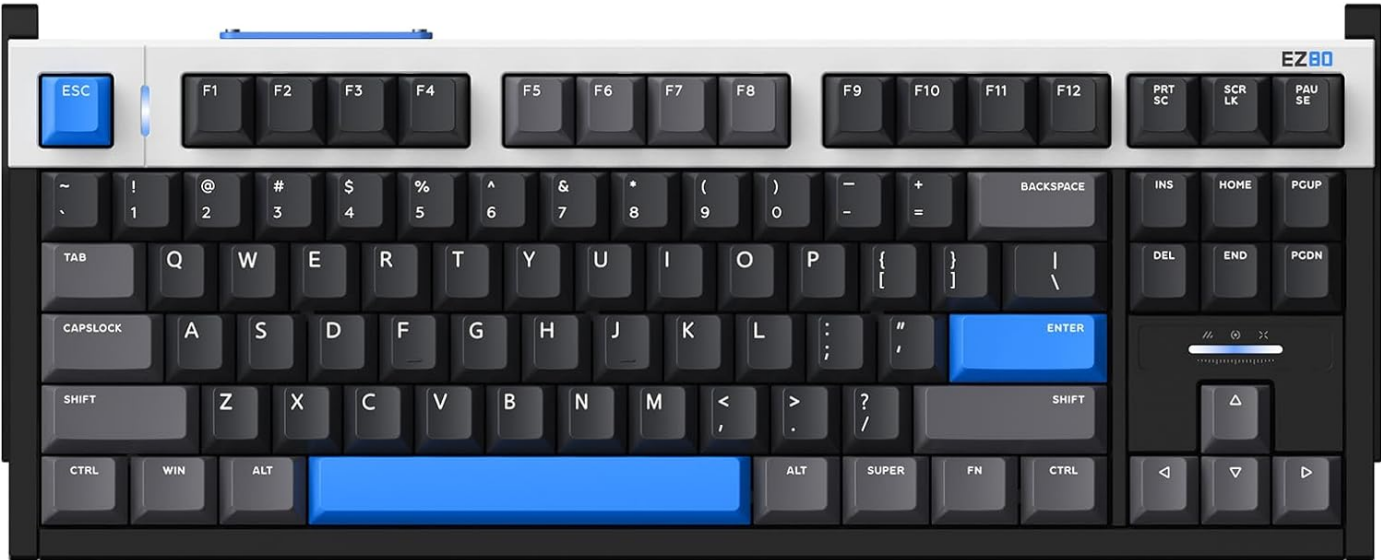


Image: The IQUNIX EZ80 keyboard showcasing its design and a detailed view of its magnetic switch.

Package Contents

Verify that all items are present in your product package:

- IQUNIX EZ80 Hall Effect Magnetic Keyboard
- USB Cable
- Keycap Puller
- EZCarry Case

Setup

1. **Connect the Keyboard:** Insert the USB cable into the USB-C port on the keyboard and connect the other end to an available USB port on your computer. The keyboard is designed for wired connectivity.
2. **Initial Power-On:** The keyboard will power on automatically once connected. The RGB backlighting will illuminate.
3. **Software Installation:** For full customization of features such as Rapid Trigger, actuation points, lighting, and macros, download the official IQUNIX software from the IQUNIX website. Follow the on-screen instructions for installation.

Operating Instructions

Basic Functions

The IQUNIX EZ80 functions as a standard TKL (Tenkeyless) keyboard. All standard alphanumeric keys, function keys (F1-F12), navigation keys, and modifier keys operate as expected. The 80% layout provides a balance between compactness and full functionality.

80% TKL, ONE FOR ALL

80% TKL Layout. Perfect for gaming and daily use. One keyboard for most occasions.



Image: The 80% TKL layout of the IQUNIX EZ80 keyboard.

Advanced Features

- **Rapid Trigger:** The EZ80 features ultra-low latency and 0.005mm Rapid Trigger sensitivity in infinite mode. This allows keys to register and reset with minimal movement, providing a competitive edge in fast-paced applications. This feature is configurable via the IQUNIX software.

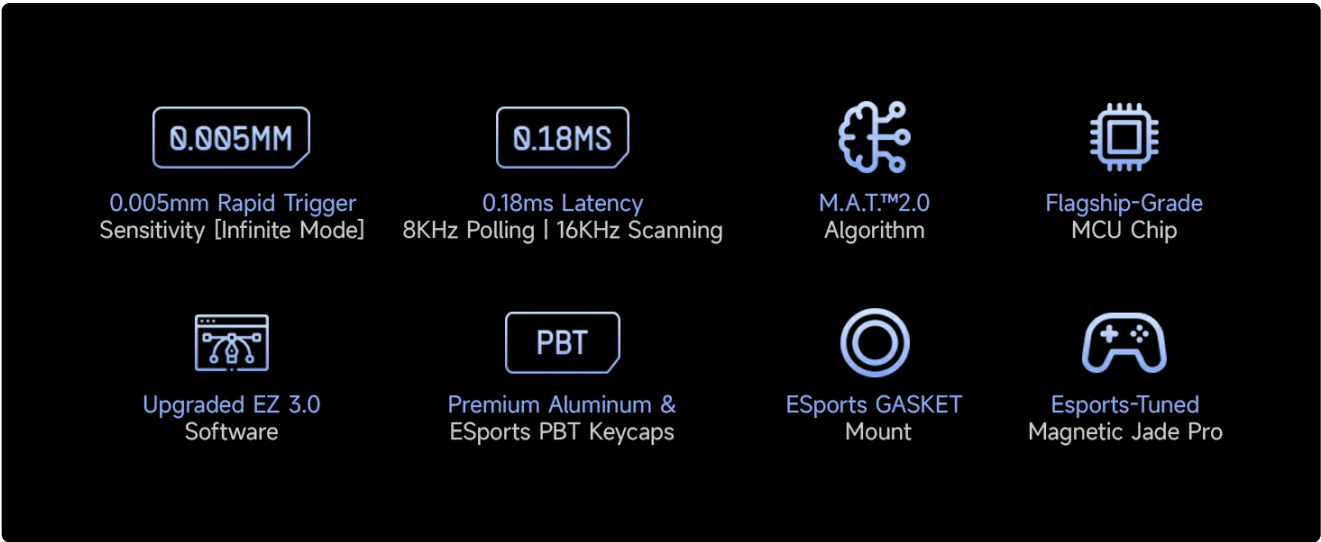


Image: Performance specifications including polling rate, scanning rate, latency, and rapid trigger sensitivity.

- **Upgraded M.A.T. Algorithm 2.0:** This algorithm automatically calibrates voltage stability to eliminate artificial dead zones, ensuring precise keystroke registration.
- **Magnetic X Ultra Switch:** Exclusively designed for the EZ80, these switches feature a larger magnet and an upgraded electromagnetic induction system for a wider voltage range, stable precision, and consistent input.

Magnetic X Ultra Switch Specifications

Parameter	Value
Initial Force	36 ± 10gf
End Force	48 ± 10gf
Travel Distance	3.5 ± 0.2mm
Initial Magnetic Flux	140 ± 15Gs
End Magnetic Flux	780 ± 80Gs
Lifespan	100 million+

EXCLUSIVE X MAGNETIC SWITCH

X Magnetic Switch, a brand-new, in-house developed magnetic switch by IQUNIX, is exclusively designed for the EZ80. It's not compatible with other magnetic switch keyboards.

Initial Force

$36 \pm 10 \text{gf}$

End Force

$48 \pm 10 \text{gf}$

Travel Distance

$3.5 \pm 0.2 \text{mm}$

Initial Magnetic Flux

$140 \pm 15 \text{Gs}$

End Magnetic Flux

$780 \pm 80 \text{Gs}$

Lifespan

100 million+

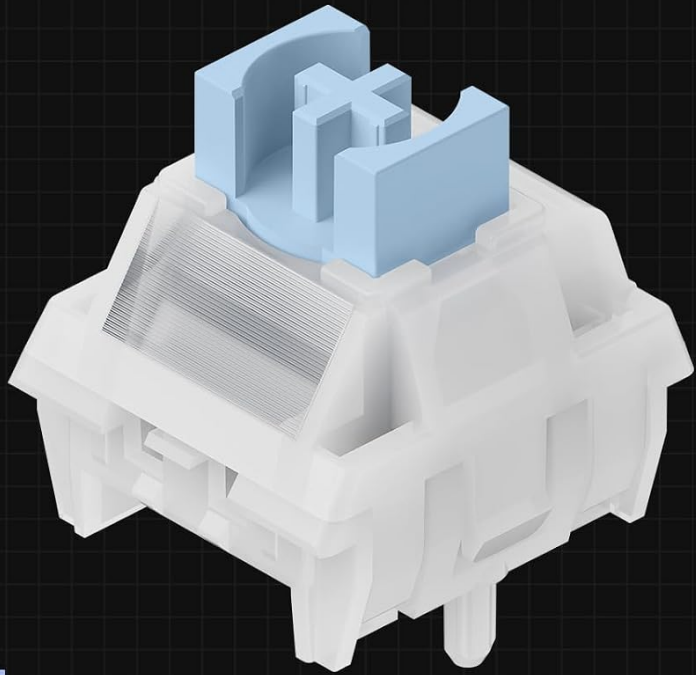


Image: Diagram illustrating the components and specifications of the X Magnetic Switch.

- **Custom EZ Dual Circuit System:** This system, featuring 11 tantalum capacitors, dual Hall-effect power supply, and a grid-style wiring layout, ensures ultra-stable Hall voltage for flawless keystrokes, preventing key chatter, double-clicks, and accidental presses.
- **3rd-Gen Linear Hall Effect Sensor:** An industry-first single-sided rail-to-rail sensor provides ultra-stable and precise keystrokes for rapid and consistent input.
- **RGB Backlighting:** The keyboard features customizable RGB backlighting. Lighting effects and colors can be adjusted through the IQUNIX software.
- **Programmable Keys and Macros:** Utilize the IQUNIX software to remap keys, create custom macros, and set up different profiles for various applications or games.
- **Esports Gasket Structure:** The EZ80 incorporates a rigid gasket mount with an aluminum plate to ensure precise and stable keypresses, minimizing wobble.

ESPORTS GASKET STRUCTURE

To hit 0.005mm precision, the structure has to be stiff.

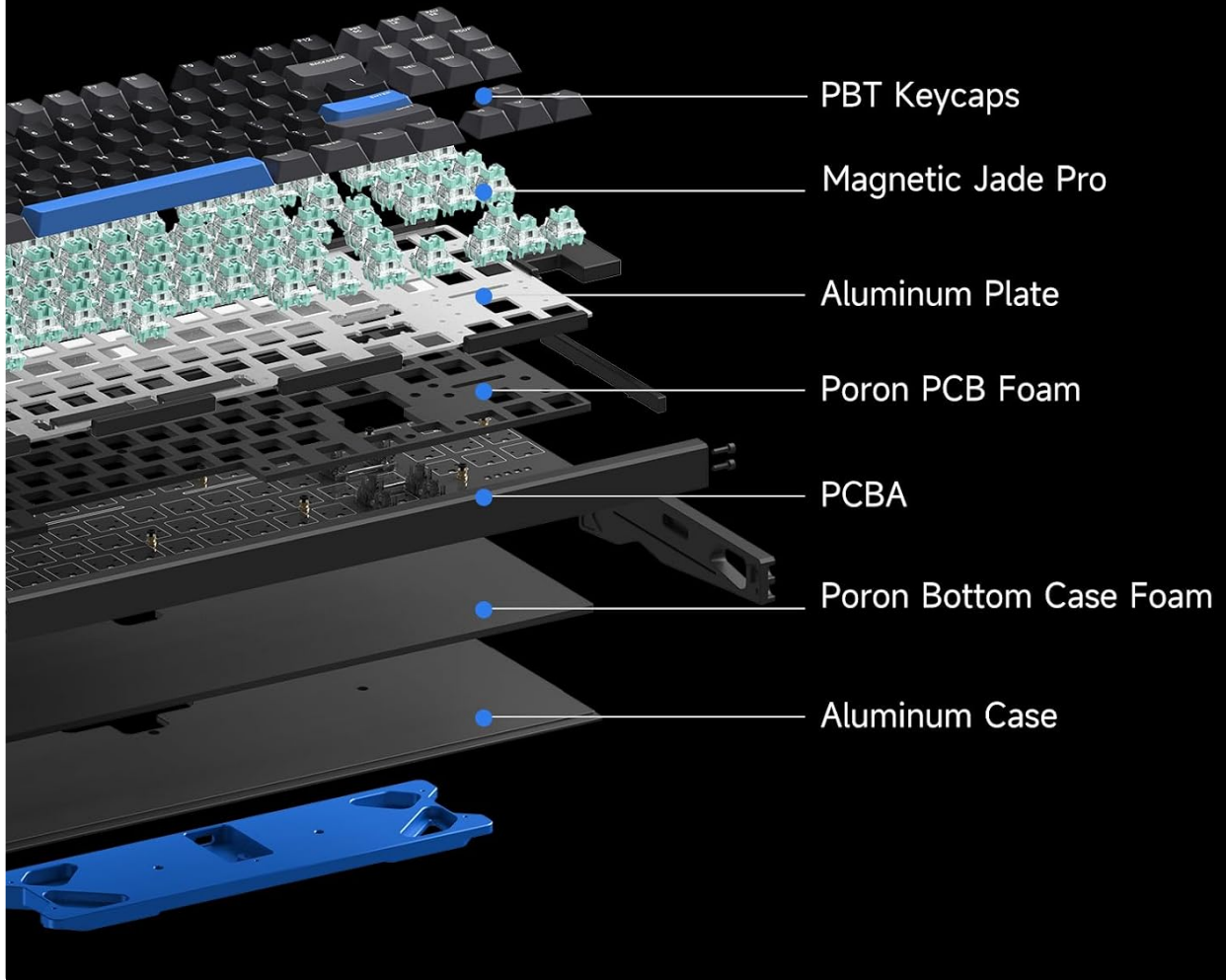


Image: Exploded view of the keyboard's internal structure, detailing the gasket mount and various layers.

- **Double Shot PBT Keycaps:** The keyboard is equipped with durable double-shot PBT keycaps, designed for longevity and a consistent typing feel.

DOUBLE SHOT PBT KEYCAPS

Built for Precise Typing



Image: Close-up of the double-shot PBT keycaps.

Maintenance

- **Cleaning the Case:** The aircraft-grade CNC aluminum case can be cleaned with a soft, damp cloth. Avoid abrasive cleaners or solvents that may damage the anodized finish.

SOLID CNC ALUMINUM BUILD

Built from eight individually CNC machined Aluminum Alloy pieces, EZ80 delivers unmatched stability and a solid, premium feel.

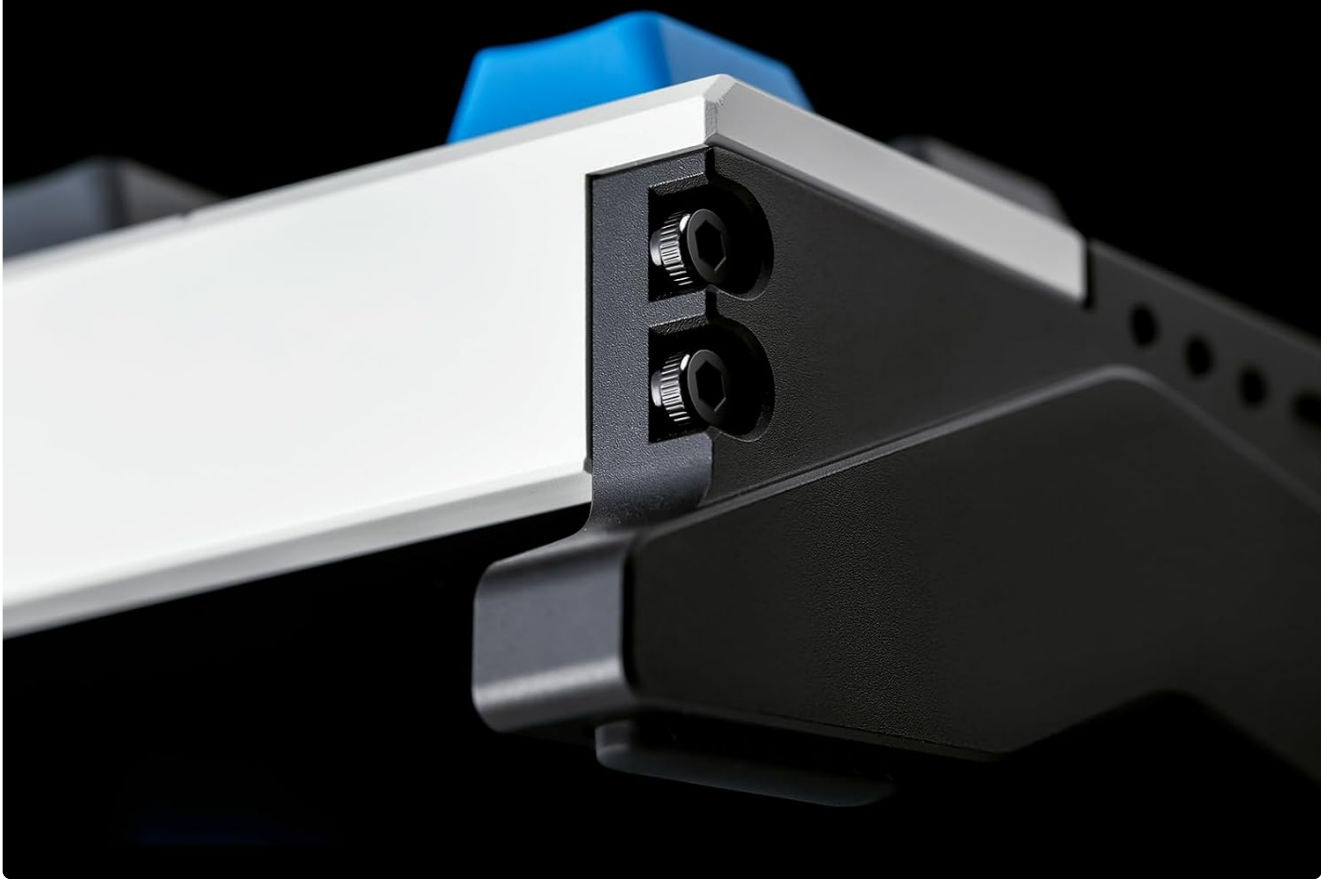


Image: Detail of the keyboard's CNC aluminum construction.

- **Cleaning Keycaps:** Use the provided keycap puller to carefully remove keycaps. They can be cleaned with mild soap and water, then thoroughly dried before reattaching.
- **Dust Removal:** Use compressed air to remove dust and debris from between the keycaps and switches.
- **Storage:** When not in use, store the keyboard in its EZCarry case to protect it from dust and potential damage.

Troubleshooting

Common Issues and Solutions

Issue	Possible Solution
Keyboard not responding	Ensure the USB cable is securely connected to both the keyboard and the computer. Try a different USB port on your computer. Test the keyboard on another computer to rule out system-specific issues.

Issue	Possible Solution
Keys not registering or double-typing	Check for debris under the keycap. Remove the keycap and clean the switch area. Ensure the IQUNIX software is updated to the latest version. Perform a factory reset if the issue persists (refer to software instructions).
Backlighting not working or incorrect	Verify lighting settings in the IQUNIX software. Ensure the keyboard's brightness is not set to zero. Update keyboard firmware via the IQUNIX software.
Software not detecting keyboard	Restart your computer and the IQUNIX software. Reinstall the IQUNIX software. Ensure no other keyboard management software is interfering.

Specifications

IQUNIX EZ80 Technical Specifications

Feature	Detail
Model Number	EZ80
Switch Type	Magnetic X Ultra Switch (Hall Effect)
Layout	80% TKL
Connectivity	Wired (USB-C)
Case Material	Aircraft-Grade CNC Aluminum
Keycaps	Double Shot PBT
Backlighting	RGB
Rapid Trigger Sensitivity	0.005mm (Infinite Mode)
Tested Latency	0.18ms
Polling Rate	8000Hz
Scanning Rate	16000Hz
Item Weight	6.32 pounds (approx. 2.87 kg)
Package Dimensions	17.09 x 8.31 x 3.82 inches
Compatible Devices	Gaming Console, Laptop, PC, Tablet

Warranty Information

IQUNIX products are manufactured to high-quality standards. For detailed warranty terms and conditions, please refer to the official IQUNIX website or contact customer support. Keep your proof of purchase for warranty claims.

Support

For further assistance, technical support, or to download the latest software and firmware updates, please visit the official IQUNIX website. You can also find FAQs and community forums there.

Manufacturer: IQUNIX

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question