ATTACK SHARK X82 PRO HE

ATTACK SHARK X82 PRO HE Gaming Keyboard User Manual

Wireless Rapid Trigger RGB Mechanical Gaming Keyboard

1. PRODUCT OVERVIEW

The ATTACK SHARK X82 PRO HE is a high-performance 75% layout mechanical gaming keyboard designed for competitive gaming and efficient daily use. It features Hall Effect magnetic switches, rapid trigger technology, adjustable actuation points, and versatile tri-mode connectivity (wired, 2.4GHz wireless, and Bluetooth). With an 8000Hz polling rate and a 5000mAh battery, it delivers ultra-low latency and extended usage.

Figure 1: Front view of the ATTACK SHARK X82 PRO HE Gaming Keyboard, showcasing its RGB lighting and compact 75% layout.

Figure 2: Visual summary of key features including 75% TKL layout, magnetic switches, web driver, tri-mode connectivity, long battery life, full RGB, 8000Hz polling rate, and low latency.

2. Setup and Connectivity

The X82 PRO HE keyboard offers three versatile connection methods:

2.1. Wired Connection (USB-C)

Connect the provided USB-C cable from the keyboard to an available USB port on your computer. The keyboard will be automatically recognized and ready for use. This mode supports the full 8000Hz polling rate.

2.2. 2.4GHz Wireless Connection

1. Locate the 2.4GHz USB receiver, typically stored in a compartment on the keyboard.
2. Plug the USB receiver into an available USB port on your computer.
3. Switch the keyboard to 2.4GHz wireless mode. Refer to the keyboard's physical switch or key combination for mode

selection (e.g., **FN + R**).

4. The keyboard should automatically pair with the receiver.

2.3. Bluetooth 5.0 Connection

1. Switch the keyboard to Bluetooth mode. Refer to the keyboard's physical switch or key combination for mode selection (e.g., **FN + Q/W/E** for different Bluetooth profiles).

2. On your device (computer, phone, tablet), enable Bluetooth and search for new devices.

3. Select "ATTACK SHARK X82 PRO HE" from the list of available devices to pair.

4. Follow any on-screen prompts to complete the pairing process.

Figure 3: Illustration of the three connectivity modes: USB-C wired, 2.4GHz wireless, and Bluetooth, with corresponding key combinations for switching.

2.4. Initial Charging

Before first use, it is recommended to fully charge the keyboard using the provided USB-C cable. The 5000mAh battery provides extended usage time.

3. Operating Modes and Functions

3.1. Polling Rate and Latency

The X82 PRO HE supports an 8000Hz polling rate in wired mode, ensuring ultra-low latency of 0.1ms and a 128K scanning rate. This provides immediate response to keystrokes, crucial for competitive gaming. In 2.4GHz wireless mode, the polling rate is 1000Hz.
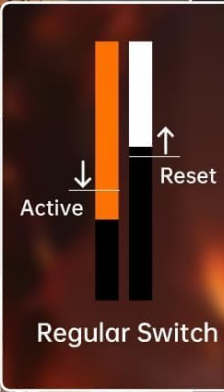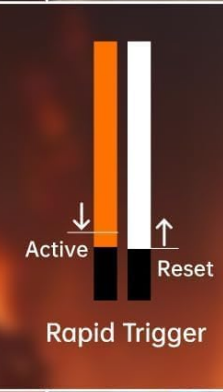
Figure 4: Visual representation of the 8000Hz polling rate in wired mode and 1000Hz in wireless mode, highlighting the ultra-low latency.

3.2. Hall Effect Magnetic Switches

Equipped with self-developed Hall Effect magnetic switches, the keyboard offers 0.01mm actuation precision. These switches are hot-swappable, allowing for easy replacement with other N-pole downward magnetic switches.

3.3. Rapid Trigger and Adjustable Actuation

Rapid Trigger (RT) technology allows keys to register actuation and reset based on movement distance rather than a fixed point, enabling faster repeated inputs. The adjustable actuation point feature allows users to customize the key travel distance required for a keystroke to register, from 0.1mm to 3.4mm, providing personalized responsiveness.

Figure 5: Diagram illustrating the difference between a regular switch and a rapid trigger switch, emphasizing improved accuracy and zero dead zone for gaming.

Figure 6: Detailed view of the magnetic switch and its specifications, including actuation range and operation force, highlighting the adjustable actuation point.

3.4. RGB Lighting Control

The keyboard features south-facing RGB lighting with over 20 dynamic backlight effects and side-bar effects, offering 16.8 million colors. Use the following key combinations to control the lighting:

- **FN + \|**: Switch light mode
- **FN + A**: Switch light bar color
- **FN + ↑**: Backlight brightness +
- **FN + ↓**: Backlight brightness -
- **FN + ←**: Backlight speed -
- **FN + →**: Backlight speed +
- **FN + Enter**: Switch light color
- **FN + Caps**: Switch light bar mode

Figure 7: Visual guide to the full RGB light effects and the key combinations for controlling various lighting parameters.

3.5. WIN and Mac Compatibility

The keyboard supports one-key switching between Windows and Mac operating systems, enhancing versatility for different user environments.

4. CUSTOMIZATION AND SOFTWARE

The ATTACK SHARK X82 PRO HE keyboard offers extensive customization options through its web-based software. This allows users to fine-tune various settings to match their preferences and optimize performance for different applications.

4.1. Accessing the Web Driver

To access the customization software, navigate to qmk.top in your web browser. This network-driven platform provides a comprehensive interface for managing your keyboard settings.

4.2. Customization Features

- **Rapid Trigger (RT) Settings:** Adjust the sensitivity and behavior of the rapid trigger function for individual keys.
- **SOCD (Simultaneous Opposite Cardinal Directions):** Configure how simultaneous opposing inputs are handled, useful for fighting games.
- **Advanced Functions:** Utilize features like DKS (Dynamic Keystroke), MT (Macro Toggle), and TGL (Toggle) for complex key behaviors.
- **Key Remapping and Macros:** Freely remap any key and create custom macros for automated sequences of commands.
- **Deadzones:** Define deadzones for key actuation to prevent accidental inputs.
- **Lighting Customization:** Personalize RGB lighting effects, colors, and patterns beyond the onboard controls.
- **Profiles:** Create and save unlimited profiles for different games, work applications, or user preferences, allowing quick switching between configurations.

Figure 8: Interface of the web-based driver, showing options for rapid trigger settings, key personalization, and RGB lighting control.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your ATTACK SHARK X82 PRO HE keyboard.

5.1. Cleaning

- **General Cleaning:** Use a soft, lint-free cloth slightly dampened with water or a mild cleaning solution to wipe down the keycaps and keyboard frame. Avoid excessive moisture.
- **Dust Removal:** Use compressed air to remove dust and debris from between the keycaps and switches.
- **Keycap Cleaning:** For deeper cleaning, keycaps can be carefully removed. Use a keycap puller to avoid damage. Clean keycaps with mild soap and water, then ensure they are completely dry before reattaching.

5.2. Hot-Swappable Switches

The X82 PRO HE features hot-swappable Hall Effect magnetic switches. This allows for easy replacement or customization of switches without soldering. Use a switch puller to carefully remove switches. Ensure replacement switches are compatible N-pole downward magnetic switches.

Figure 9: Close-up of the Doubleshot PBT keycaps, highlighting their contour design and OEM profile, which are durable and easy to clean.

6. TROUBLESHOOTING

If you encounter issues with your ATTACK SHARK X82 PRO HE keyboard, refer to the following common solutions:

Problem	Possible Cause	Solution
Keyboard not responding (Wired)	Loose cable connection, faulty USB port.	Ensure USB-C cable is securely connected. Try a different USB port or cable.
2.4GHz Wireless not connecting	Receiver not plugged in, keyboard in wrong mode, low battery.	Ensure receiver is plugged in. Switch keyboard to 2.4GHz mode (**FN + R**). Charge the keyboard.
Bluetooth not pairing	Keyboard not in pairing mode, device Bluetooth off, interference.	Switch keyboard to Bluetooth mode (**FN + Q/W/E**). Ensure device Bluetooth is on. Try re-pairing.
RGB lighting not working/incorrect	Incorrect lighting mode, software settings override.	Cycle through lighting modes using **FN + |**. Check lighting settings in the web driver (qmk.top).
Keys not registering or double-typing	Switch issue, software calibration needed.	Ensure switches are properly seated. Calibrate actuation points and deadzones using the web driver.
Keyboard feels unstable (uneven feet)	Manufacturing variance.	If the issue persists and affects usability, contact customer support.

For advanced troubleshooting or issues not listed here, please refer to the official ATTACK SHARK support resources or the web-based customization software.

7. SPECIFICATIONS

| Feature	Detail

Feature	Detail
Model	ATTACK SHARK X82 PRO HE
Layout	75% (83 keys)
Switch Type	Hall Effect Magnetic Switches (Hot-swappable)
Connectivity	USB-C Wired, 2.4GHz Wireless, Bluetooth 5.0
Polling Rate	8000Hz (Wired), 1000Hz (2.4GHz Wireless)
Latency	0.1ms (Wired)
Actuation Precision	0.01mm
Actuation Range	0.1mm - 3.4mm (Adjustable)
Battery Capacity	5000mAh
Keycaps	Doubleshot PBT (Contour Design)
Backlighting	Full RGB (South-facing, 20+ effects, 16.8M colors)
N-Key Rollover	Full N-Key Rollover
Construction	Top Mounted, Aluminum Alloy Positioning Plate, Dual-layer PORON foam
Software	Web-based Driver (qmk.top)
Operating System Compatibility	Windows, macOS
Item Weight	1.16 kg
Package Dimensions	36.79 x 19.3 x 5.3 cm

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact ATTACK SHARK customer support through their official website or the retailer from whom you purchased the product. Keep your proof of purchase for warranty claims.

Official Website: ATTACK SHARK Store on Amazon

Documents - ATTACK SHARK – X82 PRO HE
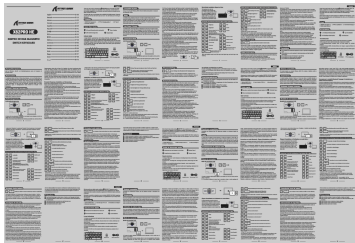
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