

ATK Fierce X Lightweight Wireless Gaming Mouse

USER MANUAL

1. Introduction

Thank you for choosing the ATK Fierce X Lightweight Wireless Gaming Mouse. This manual provides essential information for setting up, operating, and maintaining your new gaming mouse. Designed for competitive gamers, the Fierce X combines an ultra-light magnesium alloy shell with a high-performance sensor and optical switches to deliver unparalleled precision and speed.



Figure 1.1: Top view of the ATK Fierce X Lightweight Wireless Gaming Mouse, showcasing its black magnesium alloy shell and symmetrical design.

2. Package Contents

Please ensure all items are present in your package:

- ATK Fierce X Lightweight Wireless Gaming Mouse
- USB-C to USB-A Cable (for wired connection and charging)
- 8KHz Wireless Dongle (USB receiver)
- User Manual (this document)
- Additional Mouse Feet (Teflon)

3. Product Features

The ATK Fierce X mouse is engineered with cutting-edge technology to enhance your gaming experience:

- **Ultra-Light 42g Magnesium Alloy Shell:** Provides extreme lightness and superior structural durability.
- **PAW3950 Ultra Sensor:** Offers up to 30,000 DPI, 750 IPS tracking speed, and 50G acceleration for professional-grade precision.
- **Adjustable 8KHz Polling Rate:** Switch between 125Hz to 8000Hz for ultra-responsive tracking and reduced input latency.
- **Optical Micro Switches:** Ensures fast, crisp actuation with long-lasting durability, rated for 70 million+ clicks.
- **Ergonomic Symmetrical Design:** Optimized shape (119.6 × 61.0 × 36.3mm) suitable for various grip styles, ideal for medium to small hands.
- **Dual-Mode Connectivity:** Seamlessly switch between 2.4GHz Wireless and USB Wired modes.
- **Nordic 52840 MCU:** Powers the pro-grade wireless technology for ultra-low latency and stable connection.
- **Customizable via ATK Software:** Tune DPI steps, macros, polling rate, and more using the official desktop app or web-based configurator.



Figure 3.1: Overview of the ATK Fierce X's key features, highlighting its lightweight design, 8000Hz polling rate, and PAW3950 Ultra sensor.

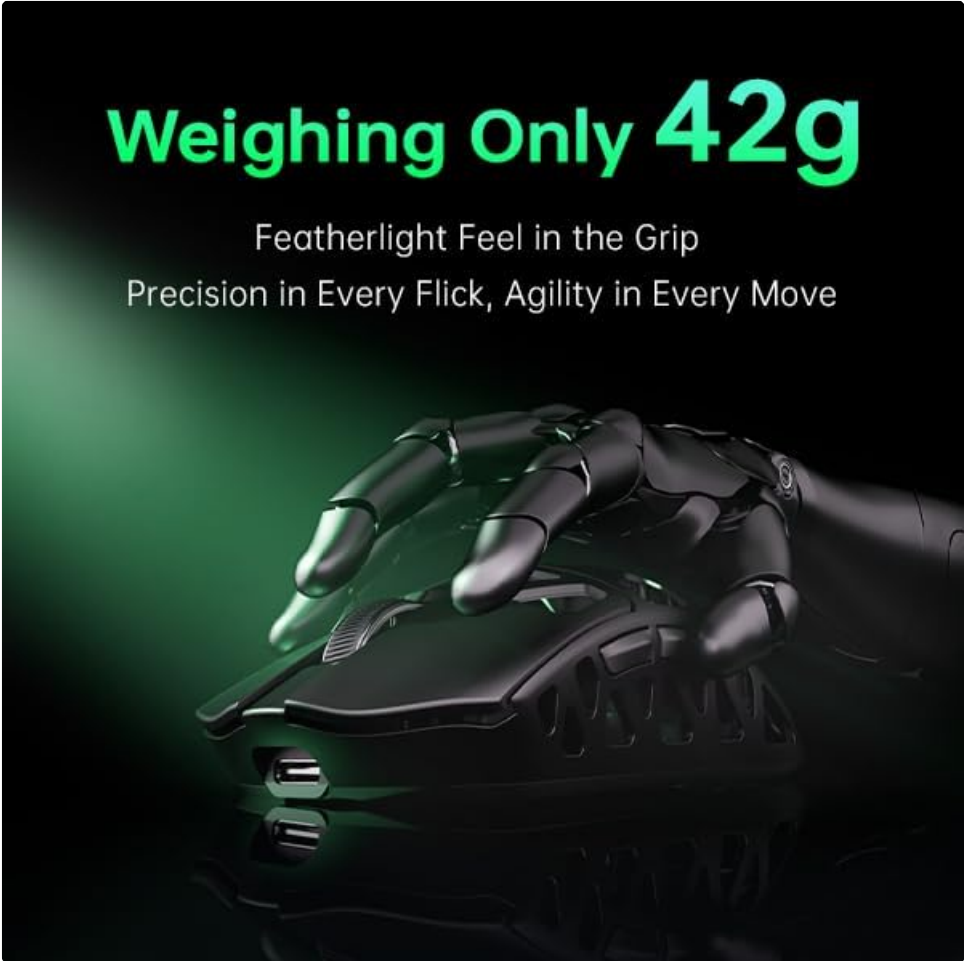


Figure 3.2: The ATK Fierce X mouse, demonstrating its featherlight 42-gram weight for agile and precise movements.



Figure 3.3: Detailed view of the PAW3950 Ultra Sensor within the mouse, illustrating its advanced tracking capabilities.

Nordic 52840 Flagship Chip

Smartspeed Wireless Gen-2 Low-Latency Technology

ATK ApexShark

Professional Esports Firmware

Measured Average Click Latency $\approx 0.3993\text{ms}$

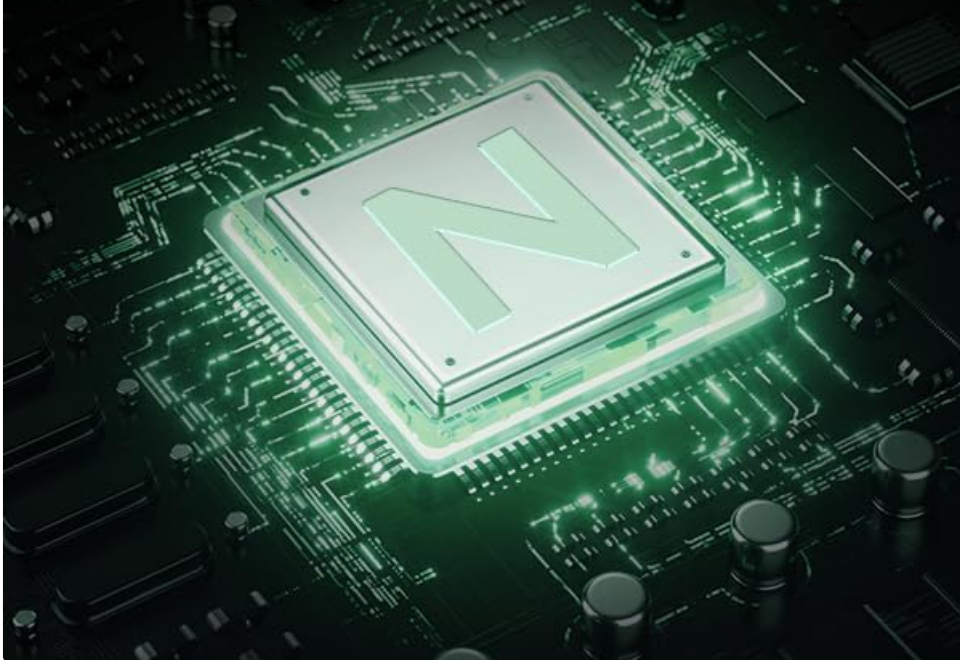
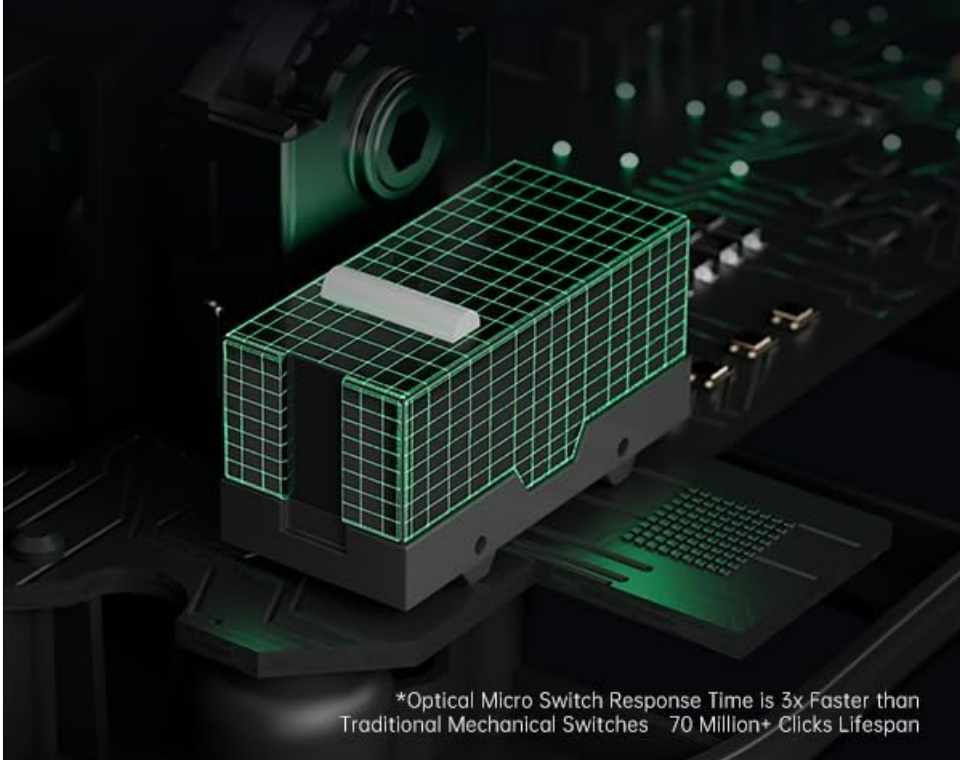


Figure 3.4: The Nordic 52840 Flagship Chip, responsible for the mouse's Smartspeed Wireless Gen-2 Low-Latency Technology and professional esports firmware.

Omron Optical Micro Switch

Instantaneous Response

Crisp & Light Click Feel, Long-Lasting Performance



*Optical Micro Switch Response Time is 3x Faster than Traditional Mechanical Switches 70 Million+ Clicks Lifespan

Figure 3.5: Diagram illustrating the Omron Optical Micro Switch, highlighting its instantaneous response and long-lasting performance.



Figure 3.6: Side view of the ATK Fierce X, showcasing its magnesium-aluminum alloy exoskeleton designed for maximized airflow, minimized weight, and solid structure.

4. Setup

4.1. Wired Connection

1. Connect the USB-C end of the provided cable to the front port of the ATK Fierce X mouse.
2. Connect the USB-A end of the cable to an available USB port on your computer.
3. The mouse will be automatically detected and ready for use.

4.2. Wireless Connection (2.4GHz)

1. Locate the 8KHz Wireless Dongle (USB receiver) included in the package.
2. Plug the wireless dongle into an available USB port on your computer. For optimal performance, use a USB 2.0 or 3.0 port directly on your motherboard or a front panel port.
3. Ensure the mouse is powered on. The mouse should automatically connect to the dongle.
4. If the connection is not established, refer to the troubleshooting section or the ATK software for pairing instructions.

5. Operating Instructions

5.1. DPI Adjustment

The ATK Fierce X features a dedicated DPI button (usually located behind the scroll wheel) to cycle

through preset DPI levels. You can customize these levels and add more steps using the ATK software.

5.2. Polling Rate Adjustment (8KHz)

The mouse supports an adjustable polling rate from 125Hz up to 8000Hz. To utilize the 8000Hz polling rate, ensure your system meets the recommended requirements:

- **CPU:** Intel Core i7 9700K or higher, AMD Ryzen 7 3700X or higher
- **Monitor:** 240Hz refresh rate or above
- **Graphics Card:** NVIDIA GTX 1080 or higher, AMD RX 5700 or higher
- **Memory:** 16GB or more

Polling rate settings can be configured via the ATK software.



Figure 5.1: Visual representation of the 8000 Hz polling rate capability and a reminder of the recommended system specifications for optimal performance.

5.3. Customization Software

Download the official ATK software from the manufacturer's website to unlock the full potential of your Fierce X mouse. The software allows you to:

- Customize button assignments and macros.
- Adjust DPI stages and sensitivity.
- Configure polling rate.
- Manage lift-off distance (LOD).
- Update firmware.
- Access a web-based configurator for advanced settings.

6. Maintenance

To ensure the longevity and optimal performance of your ATK Fierce X mouse, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry, lint-free cloth to wipe the mouse surface. For stubborn dirt, slightly dampen the cloth with water. Avoid using harsh chemicals, solvents, or abrasive materials.
- **Sensor Care:** Keep the optical sensor on the bottom of the mouse clean and free from dust or debris. Use a cotton swab or compressed air if necessary.
- **Storage:** When not in use, store the mouse in a clean, dry environment away from extreme temperatures and direct sunlight.
- **Cable Management:** Avoid sharp bends or kinks in the USB cable to prevent damage.

7. Troubleshooting

If you encounter issues with your ATK Fierce X mouse, please refer to the following common solutions:

- **Mouse not responding (Wired):**
 - Ensure the USB cable is securely connected to both the mouse and the computer.
 - Try a different USB port on your computer.
 - Test the mouse on another computer to rule out system-specific issues.
- **Mouse not responding (Wireless):**
 - Ensure the 8KHz wireless dongle is securely plugged into a USB port.
 - Verify the mouse is powered on and sufficiently charged.
 - Move the mouse closer to the dongle to reduce interference.
 - Try plugging the dongle into a different USB port.
 - Re-pair the mouse with the dongle using the ATK software if available.
- **Inconsistent Tracking or Lag:**
 - Clean the optical sensor on the bottom of the mouse.
 - Ensure you are using the mouse on a suitable mouse pad or surface.
 - Check for wireless interference from other devices (e.g., Wi-Fi routers, other wireless peripherals).
 - Update the mouse firmware via the ATK software.
 - For 8KHz polling rate, ensure your system meets the recommended specifications (refer to Section 5.2).
- **Buttons not working:**
 - Check button assignments in the ATK software.
 - Ensure no physical obstructions are preventing button presses.

If the issue persists, please contact ATK customer support for further assistance.

8. Specifications

Product Name	ATK FIERCE X Lightweight Gaming Mouse
Colors	Black / White / Silver Gray
Dimensions	119.57mm x 60.99mm x 36.26mm (Medium/Small Hands)
Material	Top Shell: Aluminum-Magnesium Alloy, Bottom Shell: ABS
Sensor	PAW3950 Ultra
Chip	Nordic nRF52840
Transmission Technology	Smartspeed Wireless Gen-2 Transmission Technology ATK ApexShark Professional Esports Firmware
Polling Rate	Wired 8K / Wireless 8K
Battery	230mAh
Battery Life	70 Hours (1000Hz)
Weight	42±2g
Primary Switch	Omron Optical Switch
Side and Middle Switches	Huanuo
Scroll Wheel	F-Switch E10 Flagship
Mouse Feet	Standard with Black Feet (Bonus White Teflon Feet Included)
Connectivity	Wired / Wireless
Dongle	8K Dongle Included

Figure 8.1: Detailed specifications of the ATK Fierce X Lightweight Gaming Mouse, including dimensions, sensor type, and battery life.

Feature	Detail
Product Name	ATK Fierce X Lightweight Gaming Mouse
Model Number	FIERCE X
Weight	42 ± 2g
Dimensions (L×W×H)	119.6 × 61.0 × 36.3mm
Sensor	PAW3950 Ultra (30,000 DPI, 750 IPS, 50G Accel.)
MCU	Nordic 52840
Polling Rate	Adjustable from 125Hz to 8000Hz (Wired & Wireless)
Switch Type	ATK Optical Micro Switches (Omron Optical Switch)
Connectivity	2.4GHz Wireless + USB Wired
Battery	230mAh
Battery Life	70 Hours (at 1000Hz polling rate)
Software Support	Yes (Windows App + Web Configurator)
Colors	Black / White / Silver Gray

Feature	Detail
Material	Top Shell: Aluminum-Magnesium Alloy, Bottom Shell: ABS

9. Warranty and Support

The ATK Fierce X Lightweight Wireless Gaming Mouse comes with a standard manufacturer's warranty. Please refer to the warranty card included in your product packaging or visit the official ATKGEAR website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact ATKGEAR customer service through their official website or the contact information provided in your product documentation. Ensure you have your product model number (FIERCE X) and proof of purchase ready when contacting support.

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