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› TGDGAMER H6-3000 High Airflow Micro ATX Case User Manual

TGDGAMER H6-3000

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1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your TGDGAMER H6-3000 High Airflow Micro ATX Case. Please read this manual thoroughly before beginning installation to ensure proper assembly and optimal performance of your computer system.

2. PRODUCT FEATURES

- **High Airflow Design:** Perforated front panel ensures direct airflow to cool internal components and enhance performance.
- **Motherboard Compatibility:** Supports Mini-ITX and Micro-ATX form factor motherboards with pre-mounted holes for easy installation.
- **Cooling Fan Support:** Accommodates up to two 120mm fans (front) and one 80mm fan (rear) for efficient cooling.
- **GPU Length Limit:** Supports graphics cards up to 250mm without a front fan/HDD, or up to 225mm with a front fan/HDD.
- **Front I/O Ports:** Equipped with 1x USB 3.0 port and 1x USB 2.0 port for convenient peripheral connectivity.
- **Power Supply Support:** Compatible with standard ATX power supplies.

3. SPECIFICATIONS

Feature	Specification
Brand	TGDGAMER
Model	H6-3000
Case Type	Mini-Tower
Motherboard Compatibility	Mini-ITX, Micro-ATX
Dimensions (LxWxH)	10.43 x 6.3 x 13.89 inches
Item Weight	4.99 pounds
Material	Cold-rolled steel sheet
Front I/O Ports	1x USB 3.0, 1x USB 2.0
Cooling Method	Air
Fan Support	Front: 2x 120mm, Rear: 1x 80mm
CPU Cooler Height Limit	Up to 135mm
GPU Length Limit	Max 250mm (without front fan/HDD), Max 225mm (with front fan/HDD)
Power Supply Mounting	Rear Mount (supports standard ATX PSU)

4. SETUP GUIDE

4.1 Unpacking

Carefully remove the case from its packaging. Inspect for any damage during transit. Retain all packaging materials for future transport or warranty claims.

4.2 Motherboard Installation

The TGDGAMER H6-3000 case features pre-mounted standoffs for Mini-ITX and Micro-ATX motherboards. Align your motherboard with the standoffs and secure it using the provided screws.

4.3 GPU Installation

Install your graphics card into the appropriate PCI-E slot on your motherboard. Ensure the card's length is within the specified limits (max 250mm without front fan/HDD, max 225mm with front fan/HDD). Secure the GPU with screws.

4.4 Power Supply Installation

Mount your standard ATX power supply in the designated rear mount area. Secure it with screws and connect the necessary power cables to your components.

4.5 Storage Installation

The case supports 2x 2.5-inch SSDs or 1x 3.5-inch HDD if no GPU is installed. Mount your storage devices in the available bays and connect them to your motherboard and power supply.

4.6 Cable Management

Utilize the straightforward design of the case to organize cables neatly. Proper cable management enhances airflow and maintains a clean internal look.

4.7 Detailed Installation Tutorial Video

For a step-by-step visual guide on installing components, please refer to the video below:

Video: Detailed installation tutorial for the TGDGAMER Micro ATX Case.

5. OPERATING INSTRUCTIONS

Once all components are securely installed and connected, close the side panels. Connect your monitor, keyboard, mouse, and power cable. Press the power button on the front I/O panel to start your system.

6. MAINTENANCE

To ensure longevity and optimal performance, regular maintenance is recommended:

- **Dust Cleaning:** Periodically clean dust from the case, especially the perforated front panel and fan areas, using compressed air or a soft brush.
- **Fan Inspection:** Check cooling fans for dust buildup or obstructions. Ensure they are spinning freely and quietly.
- **Cable Check:** Occasionally verify that all internal cables are securely connected and not obstructing airflow.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

- **Motherboard Compatibility:** Some 9.6x9.6 inch MATX motherboards with USB 3.0 or SATA ports on the right side may not be compatible with this chassis due to space constraints. Verify your motherboard layout before installation.
- **Graphics Card Installation:** If a dual-fan graphics card does not fit, ensure its length is within the specified limits (max 250mm without front fan/HDD, max 225mm with front fan/HDD). Single-fan GPUs are generally more suitable for compact cases.
- **Cable Management:** This is a compact chassis without dedicated cable management features. Careful routing is essential to avoid airflow obstruction.
- **Gaming Suitability:** While capable, this case is more suitable as an office case due to its compact size and limited fan support (one 80mm fan included). Consider additional cooling solutions for high-performance gaming builds.

8. IMPORTANT NOTES

- The TYPE-C interface on the front I/O panel only reserves holes; the actual port requires self-study to purchase and install.
- SD card and TF card reserved slots also require buyers to purchase and install them themselves.
- If an HDD hard drive needs to be installed, the height of the CPU cooler should not exceed 40mm to ensure proper fit.

9. VISUAL GUIDES & VIDEOS

Product Overview



Image: The TGDGAMER H6-3000 Micro ATX Case, showcasing its compact design and perforated front panel, with an included 80mm fan.

Internal Layout and Component Support

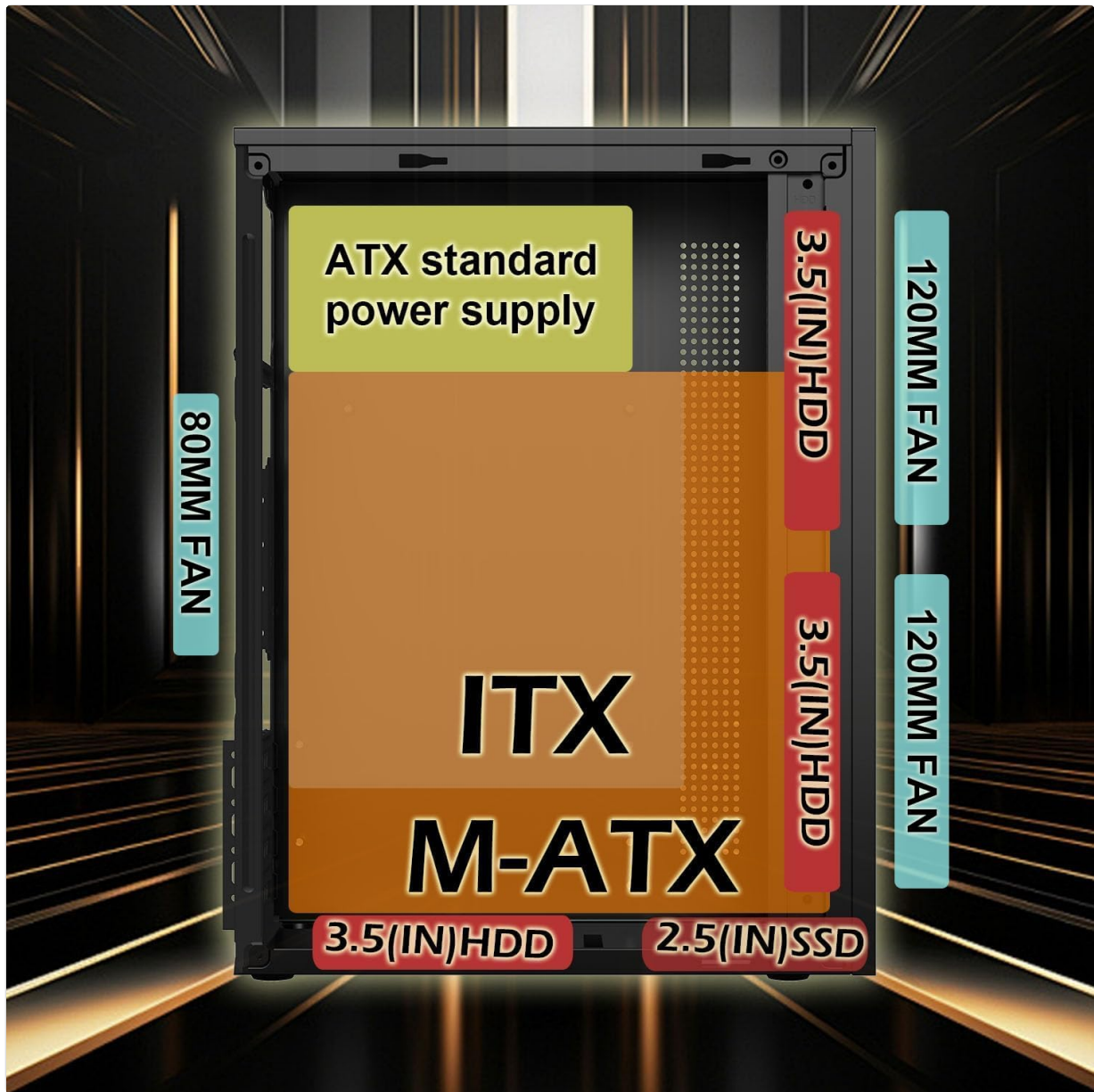


Image: An internal diagram illustrating the placement of an ATX standard power supply, 3.5-inch HDDs, 2.5-inch SSDs, 80mm and 120mm fans, and compatibility with ITX and M-ATX motherboards.

Front I/O Interface

Exquisite steel mesh - I/O interface

Power Reset Indicator light USB3.0 HD Audio USB2.0

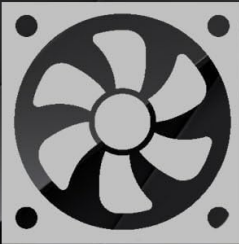


Image: A detailed view of the front I/O interface, including Power, Reset, Indicator light, USB 3.0, HD Audio, and USB 2.0 ports.

Cooling and GPU Clearance



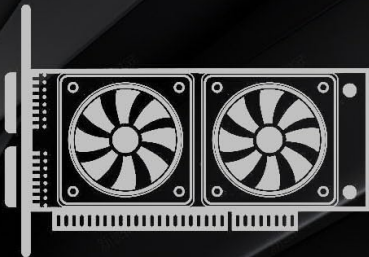
CPU Cooler height $\leq 135\text{MM}$



120MM FAN*2

80MM FAN*1

This chassis does not include a 120MM fan



NO FAN/HDD: GPU length $\leq 250\text{MM}$

With FAN/HDD: GPU length $\leq 225\text{MM}$

Image: Specifications for CPU cooler height ($\leq 135\text{mm}$), fan support (2x 120mm, 1x 80mm), and GPU length limits ($\leq 250\text{mm}$ without front fan/HDD, $\leq 225\text{mm}$ with front fan/HDD).

Size Comparison

Size comparison



Image: A visual comparison highlighting the compact dimensions (13.89in x 10.43in x 6.3in) of the TGDGAMER H6-3000 case next to a standard-sized chassis.

Case in Various Environments



Suitable for multiple occasions and locations

Image: The TGDGAMER H6-3000 case displayed in various settings, demonstrating its versatility for multiple occasions and locations, including office and gaming setups.

Internal and External Views

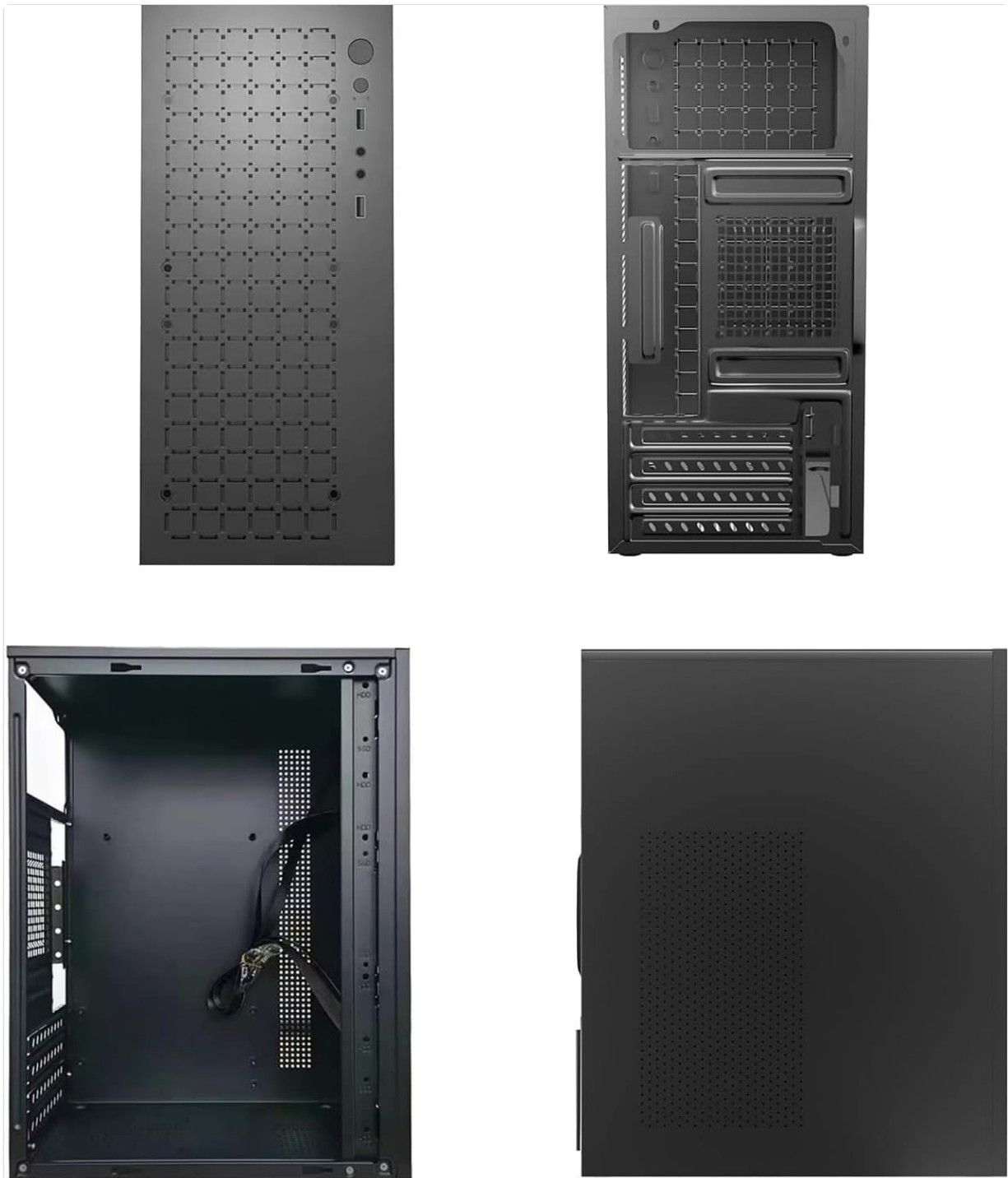
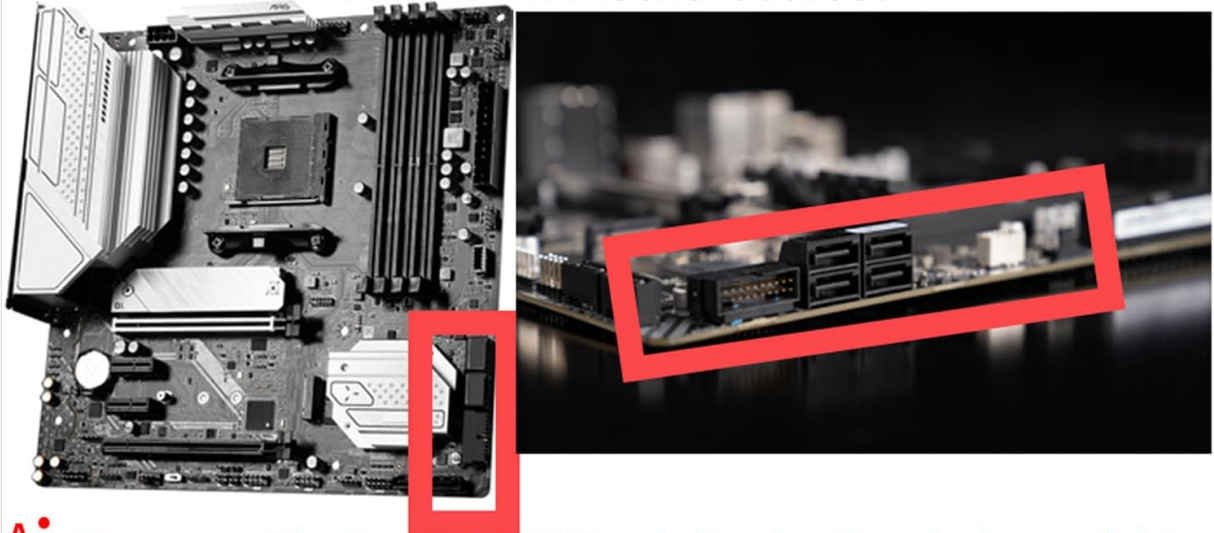


Image: A collage showing the top, rear, internal side, and external side views of the TGDGAMER H6-3000 case, highlighting its design and ventilation.

Frequently Asked Questions

Q: Is the product compatible with all MATX motherboards?



A: We are compatible with most of the MATX motherboards on the market, but not all of them. Some 9.6*9.6inch MATX motherboards need to be plugged into USB3.0 on the right side of the motherboard/connected to SATA on the right side, and this kind of MATX motherboard is not compatible with our chassis.

Q: Does this product have cable management?

A: This is a compact chassis without cable management.

Q: Is this product suitable for use as a gaming case?

A: More suitable as an office case, as it is only compatible with one 80MM fan.

Q: Why can't some dual fan graphics cards be installed?

A: Some dual fan graphics cards are too long, please refer to the actual length of the graphics card, which needs to be less than 250MM.

Image: Answers to common questions about motherboard compatibility, cable management, gaming suitability, and graphics card installation.

Additional Product Videos

Computer Case Display

Video: A general display of a computer case, demonstrating its aesthetic and form factor.

Micro ATX PC Case, High Airflow Mini MATX/ITX Desktop

Video: Showcasing a Micro ATX PC case with high airflow, suitable for Mini MATX/ITX desktop builds.

Mini PC Case

Video: A brief overview of a mini PC case, highlighting its compact form factor.

Matx Mini PC Case

Video: Demonstrating a Matx mini PC case, focusing on its size and potential for compact builds.

C6 mini Matx mesh case

Video: A showcase of the C6 mini Matx mesh case, highlighting its design and features.

Micro ATX Case

Video: An overview of a Micro ATX case, demonstrating its features and compatibility.

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the manufacturer's official website or contact their customer service. Keep your proof of purchase for any warranty claims.