MAXSUN MS-GeForce RTX4070Ti iCraft OC 12G

MAXSUN Geforce RTX 4070 Ti iCraft Limited Edition OC 12GB GDDR6X Graphics Card User Manual

Model: MS-GeForce RTX4070Ti iCraft OC 12G

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your MAXSUN Geforce RTX 4070 Ti iCraft Limited Edition OC 12GB GDDR6X graphics card. This high-performance graphics card is built on the NVIDIA Ada Lovelace architecture, featuring NVIDIA DLSS 3.5 and full ray tracing capabilities, designed to deliver exceptional visual experiences for gaming and demanding applications.
Please read this manual thoroughly before installation and retain it for future reference.

2. Safety Information

- Always disconnect power from your computer before installing or removing the graphics card.
- Handle the graphics card by its edges to avoid touching sensitive components. Use an anti-static wrist strap if available.
- Ensure proper ventilation within your computer case to prevent overheating.
- Do not expose the graphics card to moisture or extreme temperatures.
- If you encounter any issues, refer to the troubleshooting section or contact technical support. Do not attempt to repair the card yourself.

3. Package Contents

Verify that all items are present in your package:

- MAXSUN Geforce RTX 4070 Ti iCraft Limited Edition OC 12GB GDDR6X Graphics Card
- Quick Installation Guide (if included)
- Driver CD/USB (or instructions for download)
- Power adapter cables (if required for your power supply)

- Documentation and warranty card

Figure 3.1: MAXSUN Geforce RTX 4070 Ti iCraft graphics card and its retail packaging.

4. Product Overview

The MAXSUN Geforce RTX 4070 Ti iCraft Limited Edition features a distinctive white design with a custom fan cover and an RGB metal backplate. It is equipped with a robust cooling system and advanced power delivery for stable performance.

4.1 Key Features

- **GPU:** NVIDIA Geforce RTX 4070 Ti with Ada Lovelace architecture.
- **Memory:** 12GB GDDR6X with a 192-bit memory interface.
- **Boost Clock:** Up to 2685MHz.
- **Cooling:** M-Flow Cooling System with three hydromechanical fans, 8 fine copper heat pipes, and a large heatsink.
- **Power System:** Independent S.I.P Digital Power System for enhanced stability.
- **Lighting:** Skylight RGB with a one-button switch for various lighting modes (RGB Breathing, Ice Blue, Ice White, Off).
- **Output Ports:** 3x DisplayPort 1.4a, 1x HDMI 2.1.

- **Maximum Digital Resolution:** 7680x4320.

4.2 Component Identification

Figure 4.1: Front view of the graphics card, highlighting the triple fan design and RGB elements.

The card features three white fans with central iCraft logos and subtle RGB lighting accents. The fans are part of the M-Flow Cooling System, designed for efficient heat dissipation.

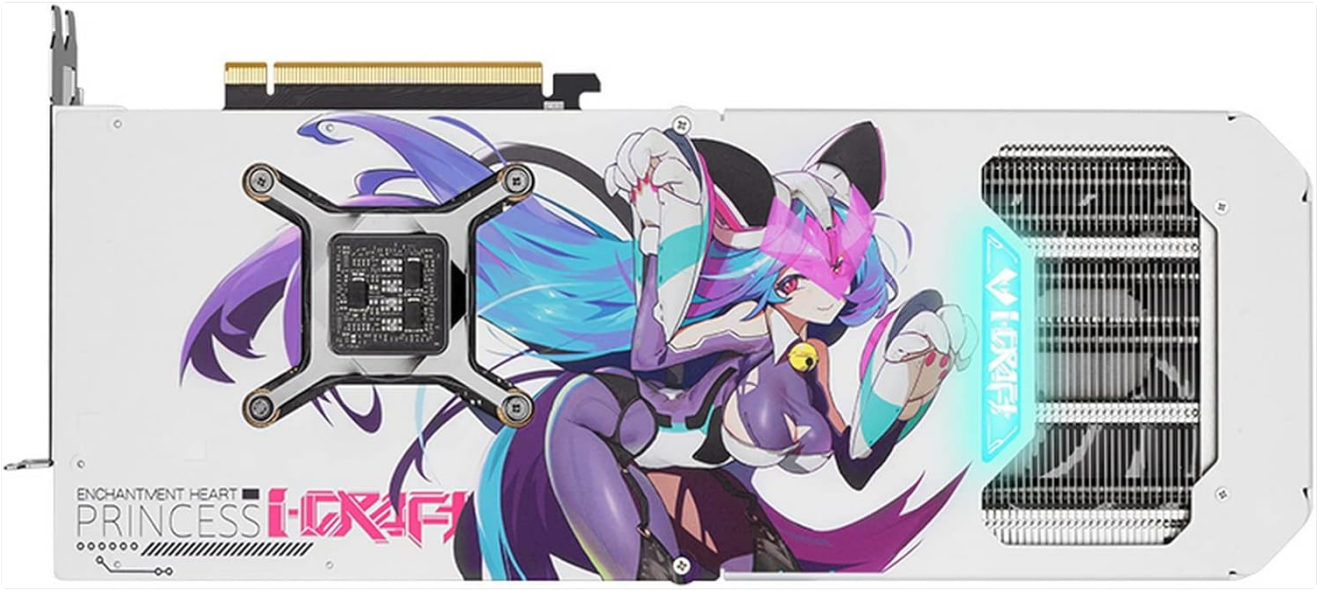

Figure 4.2: Rear view of the graphics card, showcasing the unique anime-themed RGB backplate.

The metal backplate not only provides structural rigidity but also features a distinctive iCraft princess image, contributing to the card's aesthetic appeal.

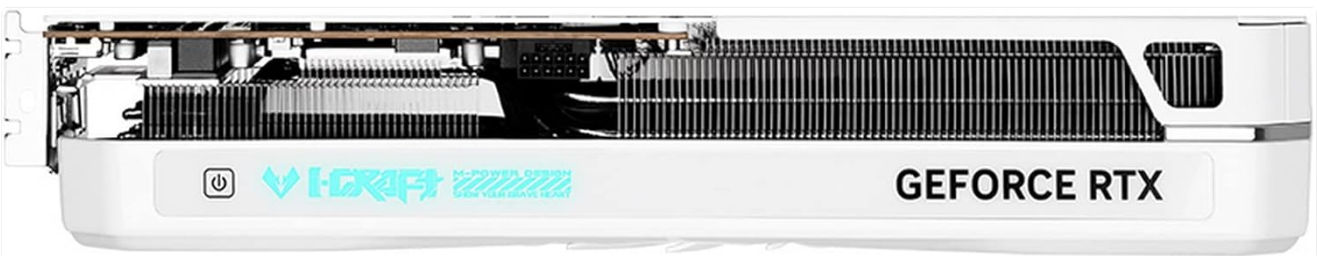

Figure 4.3: Side profile of the graphics card, displaying the "GEFORCE RTX" branding and the one-press button for RGB control.

The side of the card includes the "GEFORCE RTX" branding and a dedicated button for cycling through the Skylight RGB lighting effects.

Figure 4.4: Skylight RGB lighting modes, controlled by a single button for easy customization.

The Skylight RGB system offers multiple lighting options, including RGB Breathing, Ice Blue, Ice White, and an Off mode, allowing users to match their system's aesthetic.

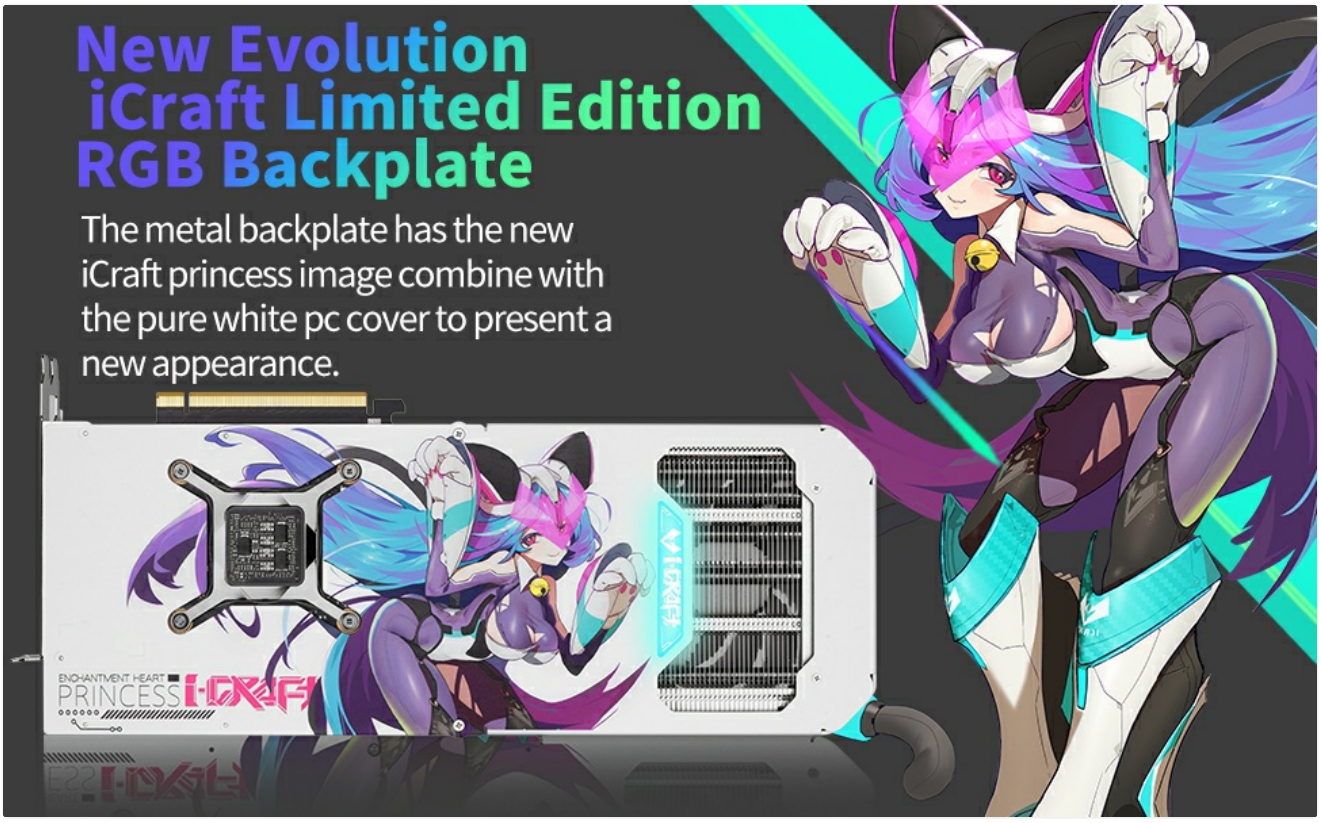

Figure 4.5: M-Flow Cooling System details, showing increased airflow and wind pressure for efficient heat management.

The M-Flow Cooling System utilizes 4th generation hydromechanical fans with PWM intelligent temperature control,

balancing cooling efficiency and noise. It achieves up to 18% increased airflow and 4% increased wind pressure at the same RPM compared to previous designs.

Figure 4.6: Illustration of the large radiator with 8 fine copper heat pipes and high-density fins, crucial for effective cooling.

The cooling solution incorporates 8 fine copper heat pipes combined with a large heatsink and high-density fins to maximize heat dissipation from the GPU and memory components.

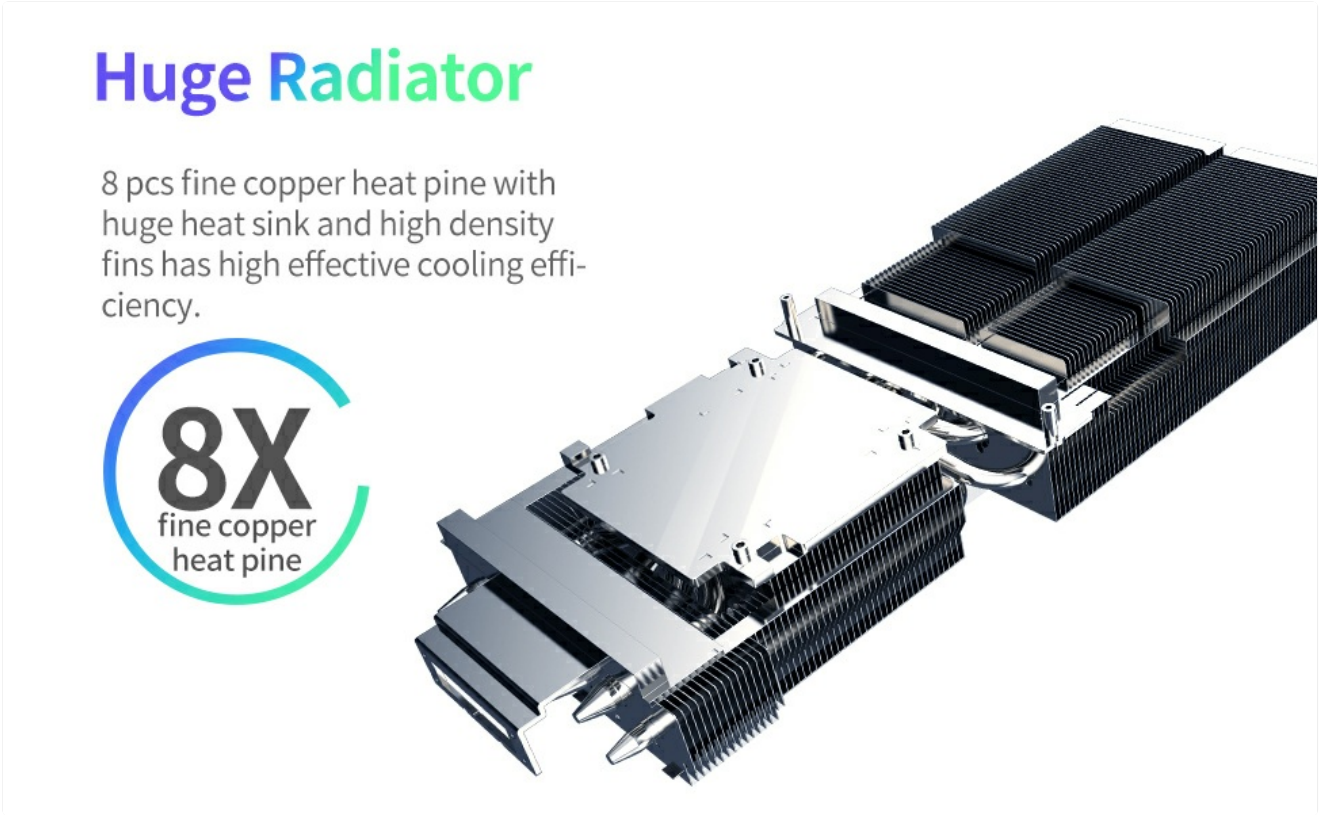

Figure 4.7: Close-up of the RGB backplate, featuring the iCraft princess character integrated into the design.

The metal backplate is designed with the new iCraft princess image, complementing the pure white aesthetic of the

card.

Figure 4.8: Illustrative image suggesting high performance in various demanding game titles.

The card is engineered to handle modern gaming titles and graphically intensive applications with high frame rates and visual fidelity.

5. Setup and Installation

5.1 System Requirements

- **Motherboard:** PCI Express-compliant motherboard with one x16 graphics slot.
- **Power Supply:** Minimum 700W power supply recommended with appropriate PCIe power connectors (e.g., 12VHPWR or 2x 8-pin PCIe connectors via adapter). The card itself has a power consumption of approximately 300W.
- **Operating System:** Windows 10 64-bit or later, Linux 64-bit.
- **Memory:** 8GB system memory (16GB recommended).
- **Storage:** 1.5GB of available hard-disk space for driver installation.

5.2 Hardware Installation

1. **Prepare Your System:** Turn off your computer and disconnect the power cable. Open the computer case.
2. **Locate PCIe Slot:** Find an available PCI Express x16 slot on your motherboard. Remove any expansion slot covers that block the slot.
3. **Install Graphics Card:** Carefully align the graphics card with the PCIe slot and press it firmly until it is securely seated. A click indicates it is locked into place.
4. **Secure the Card:** Fasten the graphics card to the computer case with the screw(s) removed earlier.
5. **Connect Power:** Connect the required PCIe power cables from your power supply to the graphics card. The RTX 4070 Ti typically uses a 12VHPWR connector or an adapter for two 8-pin PCIe connectors. Ensure all

connections are secure.

6. **Close Case:** Close your computer case and reconnect the power cable.

6. Operating Instructions

6.1 Driver Installation

1. **Power On:** Turn on your computer. The system may boot into a low-resolution display.
2. **Download Drivers:** Visit the official NVIDIA website (www.nvidia.com/drivers) to download the latest drivers for your Geforce RTX 4070 Ti. Alternatively, use the provided driver CD/USB if available.
3. **Install Drivers:** Run the downloaded driver installer and follow the on-screen instructions. A system restart may be required after installation.
4. **Verify Installation:** After restarting, open NVIDIA Control Panel or Device Manager to confirm that the graphics card drivers are correctly installed.

6.2 Connecting to Display

Connect your monitor(s) to the graphics card's output ports (DisplayPort or HDMI) using appropriate cables. The card supports up to three DisplayPort 1.4a connections and one HDMI 2.1 connection.

6.3 RGB Lighting Control

The Skylight RGB lighting on your graphics card can be controlled using the one-press button located on the side of the card (refer to Figure 4.3). Press the button to cycle through the available lighting modes: RGB Breathing, Ice Blue, Ice White, and Off.

7. Maintenance

- **Keep Drivers Updated:** Regularly check the NVIDIA website for the latest graphics drivers to ensure optimal performance and compatibility.
- **Clean Dust:** Periodically clean dust from the graphics card fans and heatsink using compressed air. Ensure the computer is powered off and unplugged before cleaning.
- **Monitor Temperatures:** Use monitoring software to keep track of GPU temperatures, especially during heavy loads, to ensure it operates within safe limits.

8. Troubleshooting

8.1 No Display Output

- Ensure the monitor cable is securely connected to both the graphics card and the monitor.
- Verify that the graphics card is fully seated in the PCIe slot.
- Check that all required PCIe power connectors are properly attached to the graphics card.
- Test with a different display cable or monitor if possible.

8.2 Performance Issues or Crashes

- Ensure you have the latest graphics drivers installed from the NVIDIA website.
- Check GPU temperatures. High temperatures can lead to throttling and instability. Ensure adequate case airflow.

- Verify your power supply meets the minimum wattage requirement and provides stable power.
- Close unnecessary background applications to free up system resources.

8.3 RGB Lighting Not Working

- Press the RGB control button on the side of the card to cycle through modes.
- Ensure the card is properly powered and seated.
- Check if there is any software control for RGB that might be overriding the button (though this model emphasizes a physical button).

9. Specifications

Feature	Detail
Brand	MAXSUN
Model Number	MS-GeForce RTX4070Ti iCraft OC 12G
Series	RTX 4070 Ti iCraft Limited Edition
GPU	NVIDIA GeForce RTX 4070 Ti
VRAM Type	GDDR6X
VRAM Capacity	12 GB
Memory Clock	21000 MHz
GPU Boost Clock	Up to 2685 MHz
Interface	PCI Express 4.0 x16
Output Ports	3x DisplayPort 1.4a, 1x HDMI 2.1
Max Digital Resolution	7680x4320
Power Consumption	300 W
Product Dimensions (L x W x H)	34.8 x 8.53 x 0.1 cm *(Note: 0.1 cm height is likely a data error; typical GPU height is several cm)*
Product Weight	2.37 kg

10. Warranty and Support

10.1 Warranty Information

MAXSUN typically offers a warranty for its products. While some listings may indicate a 3-year warranty, it is important to note that regional restrictions may apply, potentially limiting the full warranty coverage to specific territories (e.g., China). For international purchases, the effective warranty period might align with the retailer's return policy. Please consult your point of purchase or the official MAXSUN website for precise warranty terms applicable to your region.

10.2 Technical Support

For technical assistance, driver updates, or further inquiries, please visit the official MAXSUN support website or contact their customer service department. Keep your product model number and purchase details ready when seeking support.

- **Official Website:** www.maxsun.com.cn (or relevant regional site)
- **Customer Service:** Refer to the contact information provided on the official website or your product packaging.

Related Documents - MS-GeForce RTX4070Ti iCraft OC 12G

	Maxsun MS-iCraft X870M Motherboard Specifications Comprehensive technical specifications for the Maxsun MS-iCraft X870M motherboard, detailing its form factor, CPU support, memory, expansion slots, connectivity, and more.
	Maxsun Graphics Card User Manual - Installation, Drivers, and Settings Comprehensive user manual for Maxsun graphics cards, covering installation, driver setup for NVIDIA and AMD, and display settings. Learn how to optimize your graphics card for gaming and professional use.
	Maxsun MS-Challenger H610M-H V1 WIFI Motherboard Manual Detailed specifications, configuration diagram, and port descriptions for the Maxsun MS-Challenger H610M-H V1 WIFI motherboard, supporting Intel 12th/13th/14th Gen processors.
	Maxsun MS-eSport B650ITX WIFI ICE Motherboard Specification Comprehensive technical specifications and features of the Maxsun MS-eSport B650ITX WIFI ICE Mini-ITX motherboard, including chipset, CPU socket, memory, expansion slots, storage, I/O ports, and system compatibility.
	Maxsun MS-eSport B860M WIFI ACE Motherboard Specifications Detailed technical specifications for the Maxsun MS-eSport B860M WIFI ACE motherboard, including CPU support, memory, storage, I/O ports, and connectivity.

[MAXSUN MS-Terminator B850M PRO DARK WIFI Motherboard Specifications]

Detailed specifications and product information for the MAXSUN MS-Terminator B850M PRO DARK WIFI motherboard, featuring AMD AM5 socket, DDR5 memory support, PCIe 5.0, and Wi-Fi 6E.