

## ZOTAC ZT-A30900B-10P

# ZOTAC Gaming GeForce RTX 3090 AMP Extreme Holo Graphics Card User Manual

Model: ZT-A30900B-10P

## 1. INTRODUCTION

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This manual provides essential information for the installation, operation, and maintenance of your ZOTAC Gaming GeForce RTX 3090 AMP Extreme Holo graphics card. Please read this guide thoroughly before installation to ensure proper setup and optimal performance.

### 1.1 Product Overview

The ZOTAC Gaming GeForce RTX 3090 AMP Extreme Holo is a high-performance graphics card built on the NVIDIA Ampere architecture. It features enhanced RT Cores and Tensor Cores, new streaming multiprocessors, and 24GB of GDDR6X memory, designed for demanding gaming and professional applications.

### 1.2 Key Features

- NVIDIA Ampere architecture with 2nd Gen Ray Tracing Cores and 3rd Gen Tensor Cores
- 24GB 384-bit GDDR6X memory, 19.5 Gbps
- PCIe 4.0 interface
- HoloBlack design with SPECTRA 2.0 RGB Lighting
- IceStorm 2.0 Advanced Cooling system
- FREEZE Fan Stop and Active Fan Control
- PowerBoost technology
- Dual BIOS functionality
- Metal Frontplate and Lighted Backplate
- 8K Ready, 4 Display Ready, HDCP 2.3, VR Ready

## 2. PACKAGE CONTENTS

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Verify that all items listed below are included in your product package:

- ZOTAC GAMING GeForce RTX 3090 AMP Extreme Holo graphics card

- 3x Dual 6-pin to 8-pin power adapter (if applicable)
- ZOTAC GAMING RGB GPU Support Bracket
- 3-pin RGB Header cable
- User Manual (this document)



Image: Package contents including the graphics card, support bracket, and various cables.



Image: The ZOTAC Gaming GeForce RTX 3090 AMP Extreme Holo graphics card alongside its retail packaging.

## 3. SETUP

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### 3.1 System Requirements

- **Motherboard:** PCI Express 4.0 x16 slot
- **Power Supply:** 800-watt power supply recommended
- **Operating System:** Windows 10 64-bit (build 2004 or later)
- **Memory:** Minimum 8GB system RAM (16GB recommended)
- **Storage:** 1.5GB available hard-disk space

### 3.2 Hardware Installation

1. **Prepare Your System:** Power off your computer and disconnect all cables. Open your computer case.
2. **Locate PCIe Slot:** Identify an available PCI Express 4.0 x16 slot on your motherboard. Remove any expansion slot covers that obstruct the installation.
3. **Install Graphics Card:** Carefully align the graphics card with the PCIe slot and press down firmly until it is securely seated. Secure the card to the chassis with a screw.
4. **Connect Power:** Connect three 8-pin PCIe power connectors from your power supply to the corresponding ports on the graphics card. Ensure all connections are firm. If your power supply does not have three 8-pin connectors, use the provided 6-pin to 8-pin adapters.
5. **Install GPU Support Bracket:** Attach the ZOTAC GAMING RGB GPU Support Bracket to prevent card sag, following the instructions provided with the bracket. Connect the 3-pin RGB Header cable from the bracket to the graphics card's RGB header.

6. **Close Case:** Close your computer case and reconnect all cables.

### 3.3 Driver Installation

After hardware installation, you must install the latest NVIDIA drivers for your graphics card. These drivers are crucial for optimal performance and stability.

- **Download Drivers:** Visit the official NVIDIA website ([www.nvidia.com/drivers](http://www.nvidia.com/drivers)) and download the latest Game Ready Drivers for the GeForce RTX 3090.
- **Install Drivers:** Run the downloaded installer and follow the on-screen instructions. A restart may be required after installation.
- **NVIDIA GeForce Experience:** Consider installing NVIDIA GeForce Experience for automatic driver updates, game optimization, and other features.

## 4. OPERATING YOUR GRAPHICS CARD

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### 4.1 Display Connections

The ZOTAC Gaming GeForce RTX 3090 AMP Extreme Holo supports up to four simultaneous displays. Connect your monitors to the available ports:

- 3 x DisplayPort 1.4a (up to 7680x4320@60Hz)
- 1 x HDMI 2.1 (up to 7680x4320@60Hz)



Image: Display output ports on the graphics card, including DisplayPort and HDMI.

### 4.2 Software Features and Customization

Utilize ZOTAC's FireStorm utility for advanced control and customization of your graphics card.

- **SPECTRA 2.0 RGB Lighting:** Customize the RGB lighting effects on your card and the RGB GPU Support Bracket.
- **IceStorm 2.0 Advanced Cooling:** Monitor fan speeds and temperatures.
- **Active Fan Control with FREEZE Fan Stop:** Configure fan behavior, including stopping fans at low temperatures for silent operation.
- **Dual BIOS:** Switch between different BIOS profiles for performance or silent modes.
- **PowerBoost:** Manage power delivery settings for enhanced stability.



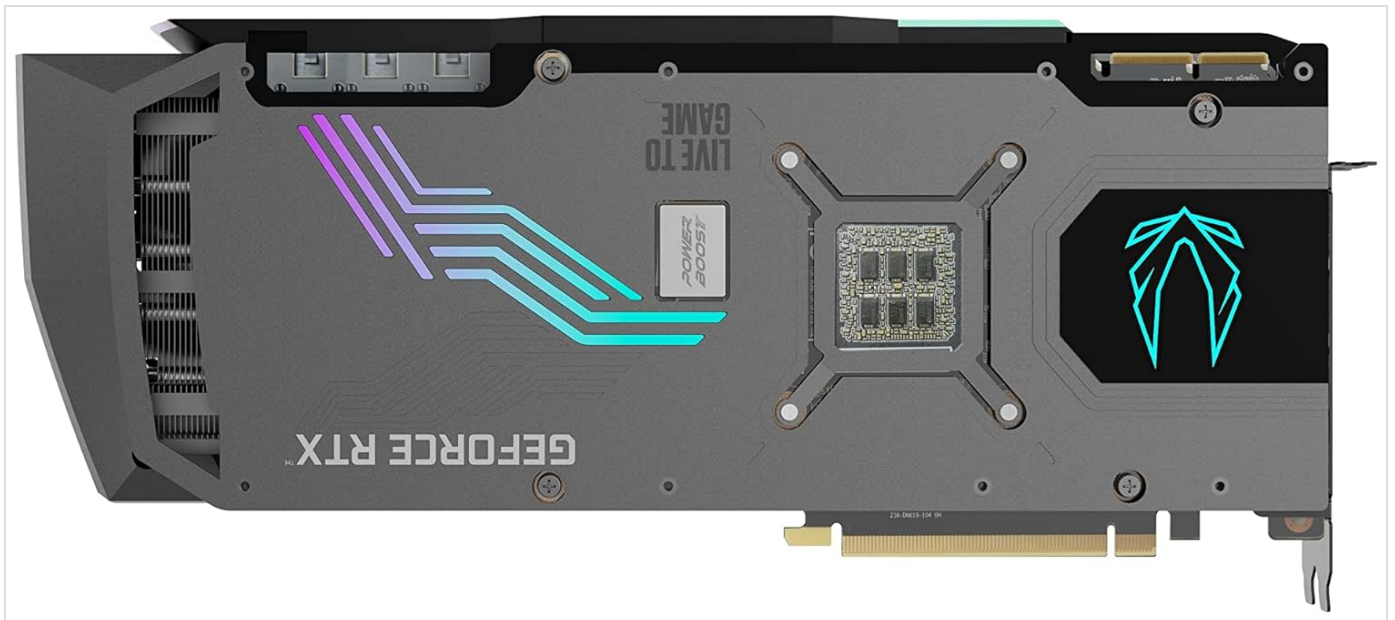


Image: The graphics card's backplate featuring SPECTRA 2.0 RGB lighting.



Image: Angled view of the graphics card, showcasing the triple-fan IceStorm 2.0 cooling system and RGB accents.

## 5. MAINTENANCE

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### 5.1 Cleaning

Regular cleaning helps maintain optimal performance and extends the lifespan of your graphics card.

- **Power Off:** Always power off your computer and disconnect it from the power outlet before cleaning.
- **Dust Removal:** Use compressed air to gently remove dust from the fans, heatsink fins, and other components. Hold the fans in place to prevent over-spinning.
- **Surface Cleaning:** Use a soft, lint-free cloth lightly dampened with isopropyl alcohol to clean the card's exterior surfaces. Avoid getting liquid into connectors or components.

## 5.2 Firmware Updates

Periodically check the ZOTAC support website for any available firmware updates for your graphics card. Firmware updates can improve performance, stability, or add new features.

## 6. TROUBLESHOOTING

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If you encounter issues with your graphics card, consider the following common troubleshooting steps:

- **No Display Output:** Ensure the monitor cable is securely connected to the graphics card and the monitor. Verify that the graphics card is fully seated in the PCIe slot and all power connectors are attached. Try a different display output port or cable.
- **Driver Issues:** Reinstall the latest NVIDIA drivers. Use Display Driver Uninstaller (DDU) in Safe Mode to completely remove old drivers before installing new ones.
- **System Instability/Crashes:** Check your power supply wattage to ensure it meets the recommended 800W. Monitor GPU temperatures using ZOTAC FireStorm or other utilities to ensure it's not overheating. Ensure your system BIOS is up to date.
- **Fan Noise/Malfunction:** Check for any obstructions in the fan blades. Ensure Active Fan Control settings are configured correctly in FireStorm.
- **RGB Lighting Issues:** Verify the 3-pin RGB Header cable is correctly connected. Check settings within ZOTAC FireStorm software.

For persistent issues, refer to the ZOTAC support website or contact technical support.

## 7. TECHNICAL SPECIFICATIONS

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Image: Top view of the graphics card, highlighting the IceStorm 2.0 triple-fan cooling solution.

Feature	Specification
GPU	NVIDIA GeForce RTX 3090
CUDA Cores	10496
Video Memory	24GB GDDR6X
Memory Bus	384-bit
Engine Boost Clock	1815 MHz
Memory Clock	19.5 Gbps
PCI Express	4.0 16x
Display Outputs	3 x DisplayPort 1.4a, 1 x HDMI 2.1
HDCP Support	2.3
Multi-Display Capability	Quad Display Capable
Recommended Power Supply	800W
Power Consumption	420W Max
Power Input	3 x 8-pin
Card Dimensions (L x H x W)	355.9mm x 145.7mm x 59.7mm (3 slot)
Operating System Support	Windows 10 64-bit (build 2004 or later)
DirectX Support	12 Ultimate
OpenGL Support	4.6
Vulkan API	RT API

## 8. WARRANTY INFORMATION

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ZOTAC products are covered by a limited warranty. The ZOTAC Gaming GeForce RTX 3090 AMP Extreme Holo may be eligible for an extended warranty upon product registration. Please refer to the official ZOTAC website for the most current and detailed warranty terms and conditions, including registration requirements and regional variations.

**Important:** Any modification or improper use of the product may void the warranty.

## 9. SUPPORT


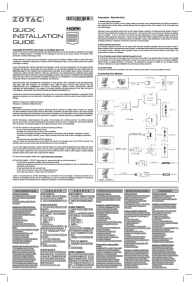




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For customer service, technical support, or general inquiries regarding your ZOTAC Gaming GeForce RTX 3090 AMP Extreme Holo graphics card, please visit the dedicated support page on the official ZOTAC website:

[www.zotac.com/support](http://www.zotac.com/support)

The support page offers FAQs, driver downloads, and contact information for technical assistance.

## Related Documents - ZT-A30900B-10P

	<p><a href="#">ZOTAC Graphics Card Installation and Driver Guide</a></p> <p>Comprehensive guide for installing ZOTAC GeForce graphics cards and the latest NVIDIA drivers, including warranty information and safety precautions.</p>
	<p><a href="#">ZOTAC GeForce GTX 1660 SUPER 6GB Quick Installation Guide</a></p> <p>Official quick installation guide for the ZOTAC GeForce GTX 1660 SUPER 6GB graphics card, covering hardware setup, driver installation, and updates.</p>
	<p><a href="#">ZOTAC ZBOX MAGNUS EN275060TC User's Manual</a></p> <p>Comprehensive user manual for the ZOTAC ZBOX MAGNUS EN275060TC mini PC, detailing product specifications, safety guidelines, hardware installation (memory, M.2 SSD), system setup, driver installation, wireless and audio configuration, and regulatory warnings.</p>
	<p><a href="#">ZOTAC ZBOX C1329nano Quick Start Guide</a></p> <p>A concise guide to setting up and customizing the ZOTAC ZBOX C1329nano mini PC, covering package contents, hardware installation, and port identification.</p>
	<p><a href="#">ZOTAC ZBOX C Series Nano Quick Start Guide</a></p> <p>A concise and informative quick start guide for the ZOTAC ZBOX C Series Nano, detailing package contents, customization, memory module installation, and hard disk installation.</p>
	<p><a href="#">ZOTAC ZBOX C1331 NANO User's Manual - Mini PC Setup and Guide</a></p> <p>Comprehensive user manual for the ZOTAC ZBOX C1331 NANO mini PC, covering product specifications, safety information, package contents, hardware installation, peripheral setup, driver installation, and usage instructions.</p>





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GEFORCE RTXTM 3090 AMP EXTREME HOLO G R A P H I C S SKU: **ZT-**

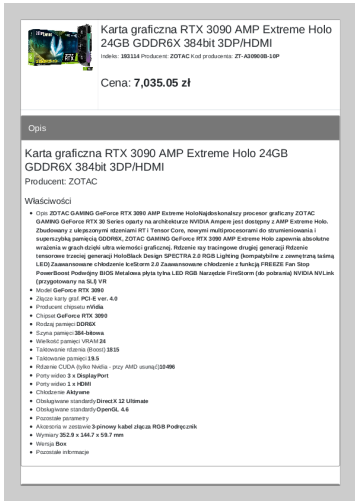
**A30900B-10P** The ultimate ZOTAC GAMING GeForce RTX 30 Series GPU based on

the NVIDIA Ampere architecture is here with the AMP Extreme Holo. Built with

enhanced RT Cores and Tensor Cores, new streaming multiprocessors, and

superfast GDDR6X m...

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