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Antec VCX20M RGB Elite

Antec VCX20M RGB Elite mATX Mini Tower PC Case User Manual

Model: VCX20M RGB Elite

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Antec VCX20M RGB Elite mATX Mini Tower PC Case. Please read this guide thoroughly before beginning assembly to ensure proper setup and optimal performance. This PC case is designed for compact builds, offering efficient cooling and a panoramic view of your components.



Figure 1.1: Antec VCX20M RGB Elite Mini Tower PC Case in a typical desktop setup.

2. KEY FEATURES

- **Compact Design & Efficient Heat Dissipation:** Optimized for compact builds, featuring enhanced airflow for superior cooling performance.
- **Dual Chamber Design:** Ensures independent cooling for the CPU/GPU on the left side and the PSU/Drives on the right side.
- **Panoramic 270° View:** Seamless left and front glass panels provide an unobstructed view of your internal components.
- **Vertical Cooling with Massive Air Intake:** Large amounts of air are drawn in through the mesh on the bottom and side, facilitating heat dissipation and protecting hardware.
- **Pre-installed 5 x 120mm RGB Fans:** Includes one 120mm RGB fixed mode fan at the rear, two 120mm RGB fixed mode fans on the side, and two 120mm RGB fixed mode reverse fans at the bottom.
- **High Compatibility:** Supports mATX motherboards and various component sizes.
- **Durable Build:** Constructed with quality materials for longevity.



COMPACT DESIGN & EFFICIENT HEAT DISSIPATION

Designed for compact builds, featuring optimized airflow for efficient cooling performance.

Figure 2.1: The compact design of the Antec VCX20M RGB Elite, engineered for efficient heat dissipation.



Figure 2.2: Dual chamber design for optimized cooling of CPU/GPU and PSU/Drives.



Figure 2.3: Panoramic 270-degree view provided by the seamless glass panels.

VERTICAL COOLING WITH MASSIVE AIR INTAKE

A large amount of air is taken in through the mesh on bottom and side, facilitating heat dissipation and protect hardware from overheating.



Figure 2.4: Illustration of vertical cooling and significant air intake for optimal thermal performance.



Figure 2.5: Location and type of the five pre-installed 120mm RGB fans.

3. SETUP AND INSTALLATION

Follow these general steps for installing components into your Antec VCX20M RGB Elite PC Case. Always refer to your component manuals for specific installation details.

1. **Prepare the Case:** Carefully remove the side and front glass panels. Place the case on a stable, flat surface.

2. **Install Motherboard:** Secure your mATX motherboard onto the standoffs provided. Ensure all screws are tightened appropriately.
3. **Install Power Supply Unit (PSU):** Mount the PSU in its designated compartment, typically in the right chamber of the dual-chamber design. Route cables through the provided cutouts.
4. **Install Storage Drives:** Mount your SSDs and HDDs in the designated drive bays. Connect power and data cables.
5. **Install Graphics Card (GPU) and Expansion Cards:** Insert your GPU and any other expansion cards into the PCIe slots on the motherboard. Secure them with screws.
6. **Connect Front Panel Cables:** Connect the front panel I/O cables (USB, audio, power, reset, LED) to the corresponding headers on your motherboard. Refer to your motherboard manual for header locations.
7. **Cable Management:** Utilize the cable routing options and tie-down points to manage cables neatly, improving airflow and aesthetics.
8. **Reattach Panels:** Once all components are installed and cables are managed, carefully reattach the glass panels.

4. OPERATING INSTRUCTIONS

This section details the basic operation of your PC case, focusing on the front I/O panel and RGB lighting control.

4.1 Front I/O Panel

The front I/O panel provides convenient access to essential ports and controls.

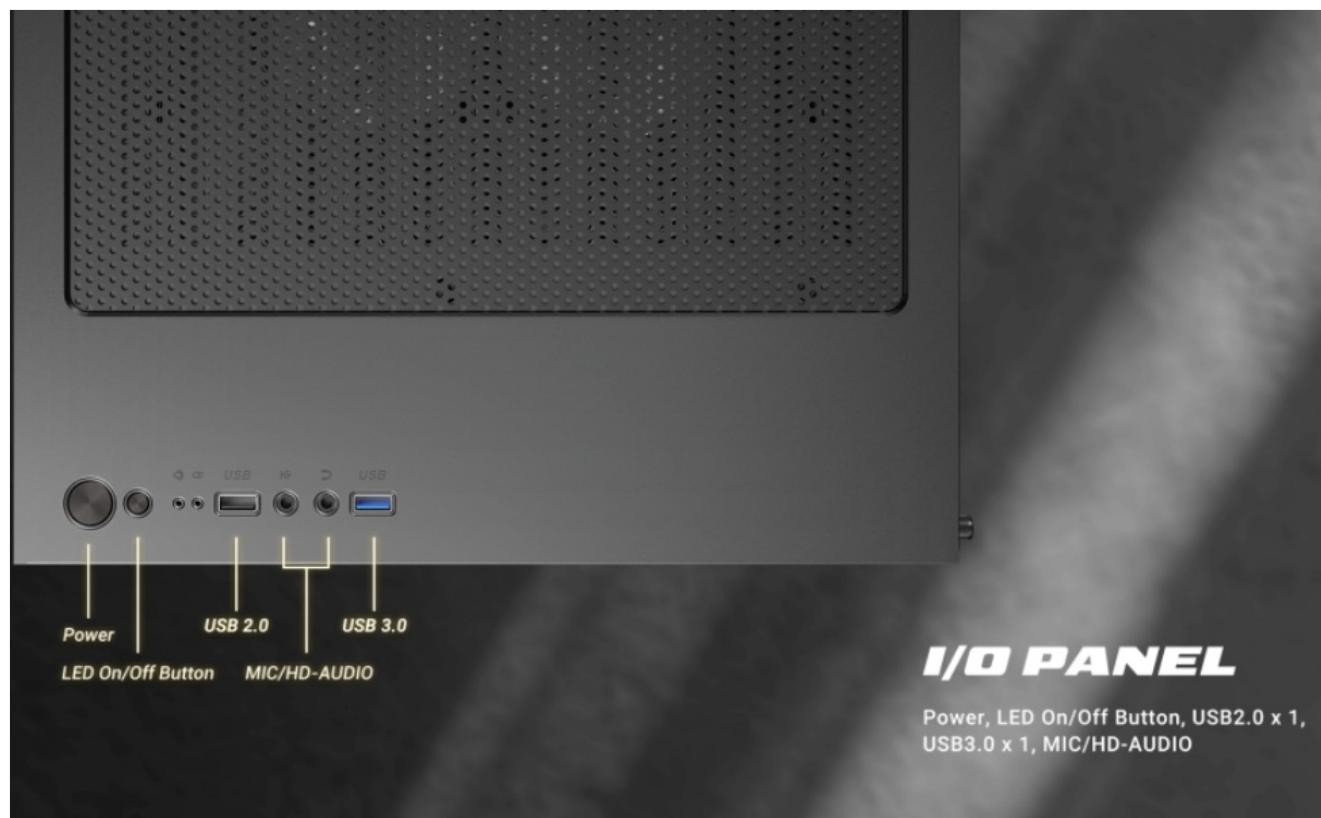


Figure 4.1: Front I/O Panel layout and functions.

- **Power Button:** Press to turn the computer on or off.
- **LED On/Off Button:** Controls the RGB lighting of the pre-installed fans. Press to cycle through different lighting modes or turn off the LEDs.
- **USB 2.0 Port (x1):** Connect USB 2.0 compatible devices.
- **MIC/HD-AUDIO Jack:** Connect headphones and microphones.

- **USB 3.0 Port (x1):** Connect USB 3.0 compatible devices for faster data transfer speeds.

4.2 RGB Fan Control

The pre-installed RGB fans are controlled via the dedicated LED On/Off button on the front I/O panel. Each press cycles through various pre-set lighting effects. There is no software control for these fixed-mode RGB fans; all adjustments are made directly through the button.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your PC case.

- **Dust Cleaning:** Periodically clean dust filters and internal components using compressed air or a soft brush. Ensure the system is powered off and unplugged before cleaning.
- **Exterior Cleaning:** Wipe the exterior surfaces, including glass panels, with a soft, damp cloth. Avoid abrasive cleaners that may scratch the finish.
- **Fan Inspection:** Check fan blades for dust buildup and ensure they spin freely. Clean as necessary.

6. TROUBLESHOOTING

This section addresses common issues you might encounter.

- **No Power:** Ensure the PSU is properly connected to the motherboard and wall outlet. Check all front panel power switch connections to the motherboard.
- **Fans Not Spinning/RGB Not Working:** Verify that all fan power cables and RGB cables are securely connected to the motherboard or fan controller. Ensure the LED On/Off button is pressed to activate RGB modes.
- **USB Ports Not Functioning:** Check that the USB headers from the front panel are correctly connected to the motherboard.
- **Audio Jacks Not Functioning:** Ensure the HD-AUDIO cable from the front panel is correctly connected to the motherboard's audio header. Verify audio drivers are installed.
- **Overheating:** Ensure proper airflow by checking for dust buildup on fans and filters. Verify that all fans are operating correctly. Ensure components are not obstructing airflow.

7. SPECIFICATIONS

Feature	Detail
Brand	Antec
Model Name	VCX20M RGB Elite
Colour	Black
Material	Glass, Metal
Item Dimensions (LxWxH)	33.3 x 28.5 x 29 Centimeters
Item Weight	5 kg 200 g
Motherboard Support	mATX
Pre-installed Fans	5 x 120mm RGB Fixed Mode Fans (1 Rear, 2 Side, 2 Bottom)

Front I/O Ports	Power, LED On/Off Button, 1x USB 2.0, 1x USB 3.0, MIC/HD-AUDIO
Country of Origin	China

8. WARRANTY AND SUPPORT

Antec products are manufactured to high-quality standards. For warranty information, please refer to the warranty card included with your product or visit the official Antec website. For technical support, please contact Antec customer service through their official channels. Keep your proof of purchase for warranty claims.