

SAPPHIRE NITRO+ Radeon RX 5500XT 8G DDR6 [SKU number: 11295-05]



SPECIFICATION

- GPU: Radeon™ RX 5500XT Graphics
- Stream Processors: Up to 1408 unit
- Compute Units: 22
- Boost Clock: Up to 1845 MHz
- Game Clock: Up to 1737 MHz
- Memory Speed: 14.4 Gbps
- Memory Size: 8192 MB
- Memory Interface: 128 bit DDR6
- Firmware: Dual UEFI BIOS
- Form Factor: 2.2 slot, ATX
- Cooler Fan: Dual Axial Fan, Two-Ball bearing
- Back Plate: Yes
- Bus Support: x8 PCIe 4.0
- External Power: 1 x 8p

PRODUCT FEATURES

- RDNA Architecture
- 2nd Gen 7nm GPU
- GDDR6 Memory
- PCI Express 4.0 Support
- Video Streaming up to 8K
- Display Port 1.4 (HBR3) / DSC
- Radeon™ Image Sharpening
- Radeon™ Anti-Lag
- AMD FidelityFX
- Async Compute
- Radeon™ Rays Audio + True Audio Next
- Radeon™ FreeSync™ 2 HDR
- Radeon™ VR Ready Premium
- TriXX Boost
- Software BIOS Switch
- NITRO Glow ARGB LED
- Fan Check
- Cool Tech

SYSTEM REQUIREMENTS

- PCI Express® compliant motherboard with one x 16 PCIe slot.
- NOTE: Minimum recommended system power supply wattage is based on the specific graphics card and the typical power requirements of other system components. Your system may require more or less power.
- OEM and other pre-assembled PCs may have different power requirements.
- Minimum 4GB of system memory. 8GB recommended.
 - Minimum 450W or greater power supply
- Installation software requires a keyboard, a mouse, and a display.
- A display with digital input (HDMI™ or DisplayPort) is required.
- Supported operating systems include Linux®, Windows® 10, and Windows® 7.
- 64-bit operating system required.
- DirectX 12 and Vulkan support.
- For information on Radeon VR Ready Premium visit amd.com/VRready.



DIMENSION:

- 257(L)x 132.8(W)x 44.2 (H)mm
- 4 x Maximum Display Monitors support
- 2 x DP / 2 x HDMI

MAXIMUM DISPLAY RESOLUTION

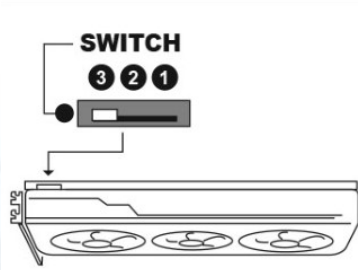
- HDMI™: 4096×2160@60Hz
- DisplayPort1.4: 5120×2880@60Hz

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Primary Settings	
Game Clock*	Up to 1737 MHz
Boost Clock	Up to 1845 MHz
Memory Clock	14.4 Gbps
Typical GPU Temperature	67°C ~ 69°C
Secondary Settings	
Game Clock*	Up to 1717 MHz
Boost Clock	Up to 1845 MHz
Memory Clock	14 Gbps
Typical GPU Temperature	72°C ~ 75°C
Software Switch Mode	
Primary setting (Default)	Secondary Setting

BIOS switch setting



POSITION	MODE
1	Primary Setting
2	Secondary Setting
3	Software Switch Mode Please Switch BIOS via TriXX Primary Setting (Default) / Secondary Setting

TriXX Software BIOS Switch

Beginning with the NITRO+ RX5500 XT, gamers can switch from Primary setting to Secondary setting or back using our TriXX software for a quick and easy switch between your dual BIOS modes.

Power Design

The NITRO+ RX 5500 XT card is designed with 7+1+1 Phase Digital Power specifically for GPU and memory to aid in overclocking, balancing current distribution and averaging thermal dissipation for each power phase.

Fuse Protection

In order to protect your card, the SAPPHIRE cards have fuse protection built into the circuit of the external PCI-E power connector to keep the components safe.

PCB

The exquisite PCB design delivers stable, reliable, and steady performance. It could efficiently lower PCB temperature and component signal noise.

Dual BIOS

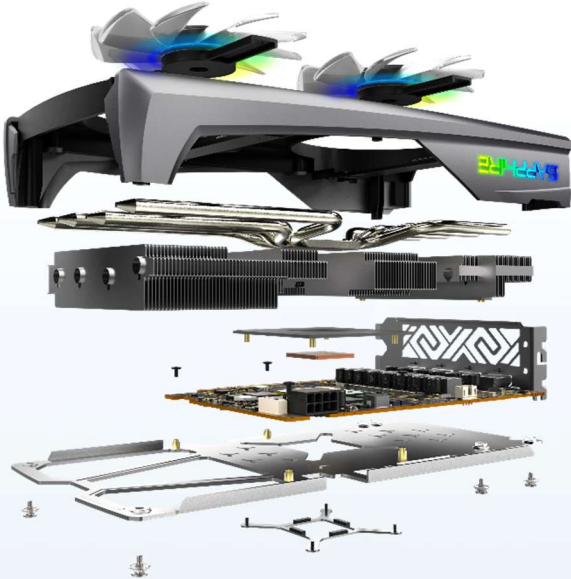
Choose between performance mode and silent mode to enhance your gaming experience

Black Diamond Chokes

SAPPHIRE's Black Diamond Chokes are around 10% cooler and approximately 25% more power efficient than a normal choke. Chokes reduce the coil temperatures by up to 15% over the former one. The chokes maintain gaming stability using their built-in heatsinks and minimize coil whine.

* Game Clock is the expected GPU clock when running typical gaming applications, set to typical TGP (Total Graphics Power). Actual individual game clock results may vary.

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Dual-X Cooling Technology

SAPPHIRE's acclaimed Dual-X Cooling is powered by two massive yet silent fans and state-of-the-art radiator design. The streamlined form of our 95mm blades mean greater airflow and superior heatsink coverage at lower noise compared to standard cooling designs.

Intelligent Fan Control

Fan speed is intelligently controlled to keep the GPU, memory, PWM IC and other components as low as possible in temperature to balance performance, and fan noise.

Precision fan control

Standard industry fans may have up to 10% difference between fan rotation cycles (RPM). The Fan IC Control on SAPPHIRE graphics cards reduce differential at approximately 3%. This up to 70% improvement on accuracy ensures that cooling and noise performance of every graphics card is up to scratch.

Back Plate

The all-aluminum back plate provides additional rigidity that guarantees nothing bends and dust stays out. It also helps cool your card by increasing heat dissipation.

Robust VRM Cooling

The NITRO+ RTX 5500 XT is designed with robust VRM cooling and have a high thermal conductivity pad on the back-plate to take away the heat efficiently and effectively.

Robust Memory Cooling

One of the hottest parts on a next-gen graphics card is generated from memory. A robust memory cooling solution has been integrated into the NITRO+ RX 5500 XT to cool down memory with a specially designed independent cooling module.

Two-Ball Bearing Fans

These feature Dual Ball bearing fans, which have an approximately 85% longer lifespan than sleeve bearings in our tests. The improvements to the fan blades means the solution is up to 10% quieter than the previous generation.

Free Flow

The traditional axial fan design system circulates hot air to the fan inlet resulting in higher temperature. We redesigned the airflow so that the hot air is expelled through the system fan instead, rapidly dissipating heat and includes a tunneled fin with tiny holes which increases the convection airflow.



TriXX Supported

The TriXX Software will open you up to a range of new features such as TriXX Boost, Software BIOS Switch and NITRO Glow ARGB LED Effect which can only be controlled via TriXX. Customize your individual style with TriXX Software and heighten your gaming experience!

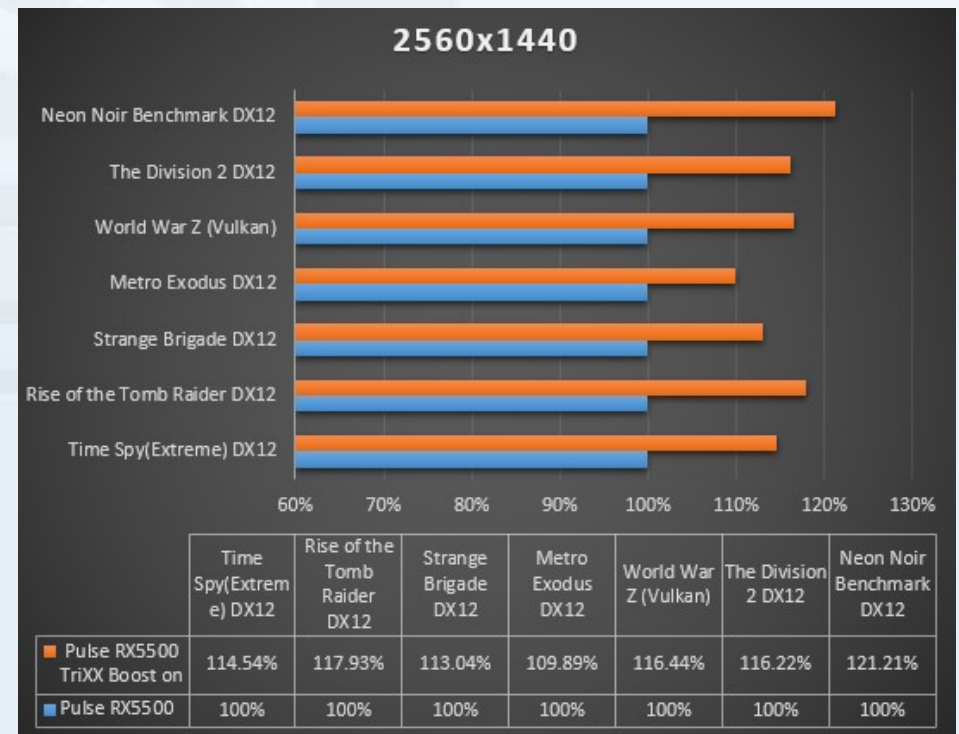
Fan Check

At times fans need a service but it can be frustrating to return the entire card and wait for a replacement to be authorized. The fan Check feature allows users to check the cooler's status and immediately contact customer support through Fan Service in case of problems.

Fan Quick Connect

If there's a fan problem, you don't have to return the entire card. SAPPHIRE or our channel partners will send out a replacement fan directly to you! That means they're easy to remove, clean and replace, with just one screw holding them securely in place.

SAPPHIRE TriXX with its revamped and deceptively-simple interface features the New TriXX Boost feature. In order to gain higher game performance with given hardware, gamers can choose to run their game at a lower resolution. Traditionally the available resolutions choices are fixed to a small set of options. With TriXX Boost, additional custom resolutions are created, based on user input, which gives much more fine-grained control over the quality vs performance tradeoff.

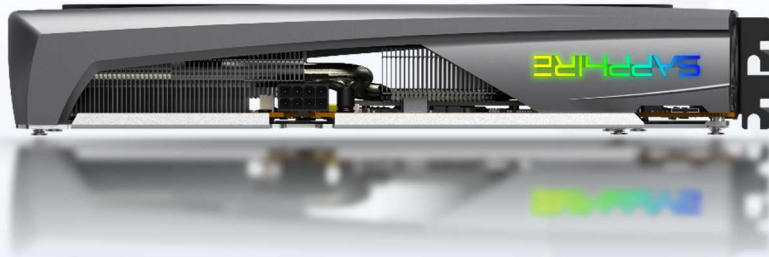
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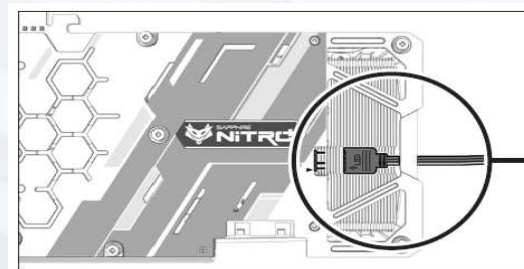
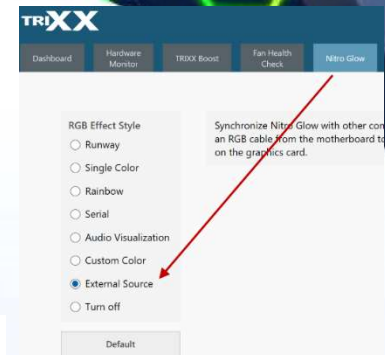
NITRO Glow

With tasteful shroud design augmented by ARGB LEDs, you can change the colors of the LED, for a customized design. This can be controlled via TriXX software. Choose from various different modes including Fan Speed Mode, PCB Temperature Mode or the colorful rainbow mode or turn off the LEDs.

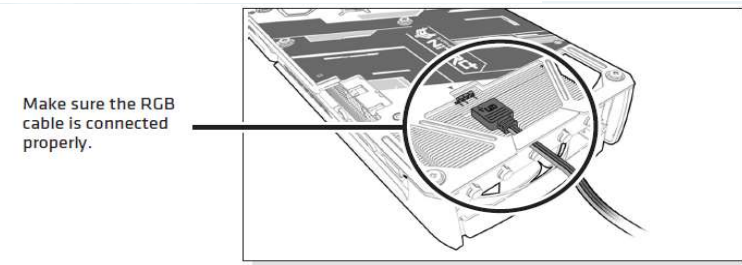


External RGB LED MB Synchronization

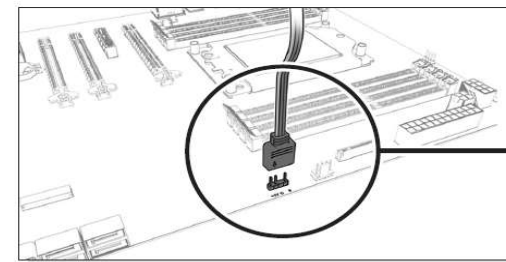
Synchronize addressable RGB LED effects with the Motherboard by selecting “External”.



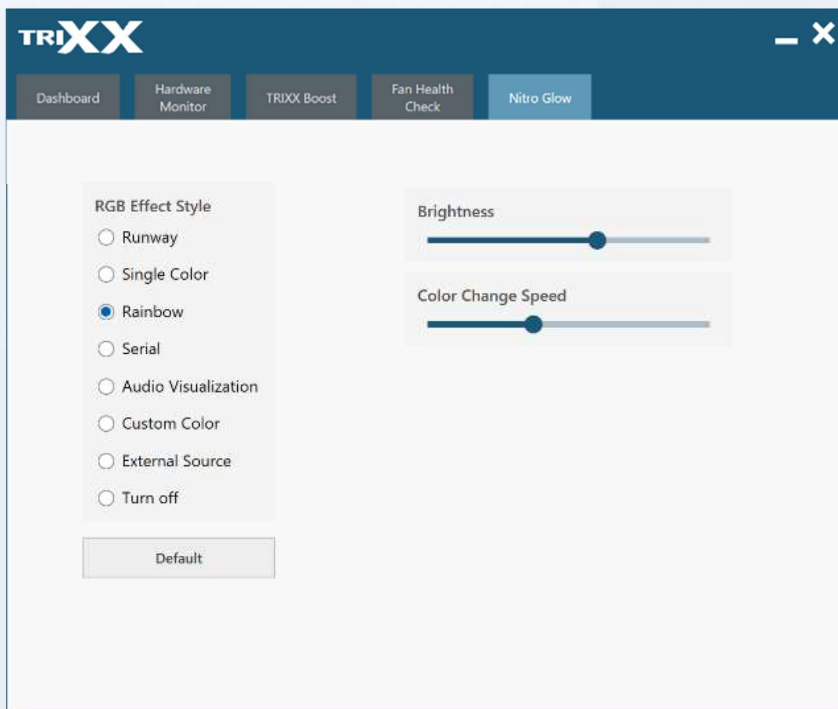
RGB cable (3-pin) required. Connect to the reserved 5V RGB 3-pin header on the VGA card with the RGB cable (3-pin).



Make sure the RGB cable is connected properly.



The opposite side of the RGB cable (3-pin) connects to the 5V RGB 3-pin header on the motherboard.



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VR Friendly

The SAPPHIRE NITRO+ RX 5500XT card comes with Dual HDMI ports, specifically designed to work with VR. By having two HDMI ports, you can have both an HD monitor and cutting-edge VR headset running at the same time.

The ports are HDMI 2.0, the latest update, with an 18Gbps

Fluid DirectX® 12 and Vulkan® Gaming

True concurrent execution controlled by a native Asynchronous Compute Engine means next generation games can run smoothly and efficiently on the Radeon™ GPU. As more games adopt DirectX 12 and Vulkan, combined with frequent software updates, Radeon™ graphics will continue to deliver.

Premium VR Ready

Experience beautifully rich and immersive VR environments and gameplay, augmented by player comfort and effortless compatibility. AMD LiquidVR™ technology, featuring ground-breaking Asynchronous Shaders, helps you avoid nausea and motion sickness during VR experiences. The Radeon™ graphics card enables a fully immersive and comfortable VR experience.

TrueAudio Next Technology

A revolutionary audio processing environment utilizing the next-gen compute units of Radeon™ Cards to create the most realistic 3D surround environments for VR gaming.

High Fidelity Pixels

PC Gamers want the chance to experience the highest visuals. Content Creators want the maximum screen space to visualize their imagination. Enthusiasts want the highest quality color production, with 10-bit display support. Get all of this and more with Radeon™ Graphics.

