

# SAPPHIRE PULSE Radeon RX 5500XT 4G DDR6 SKU number: 11295-03

# SAPPHIRE PULSE

## 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** Gbps
- Memory Size: **4096** MB
- Memory Interface: **128** bit **DDR6**
- Firmware: Dual **UEFI** BIOS
- Form Factor: **2** slot, ATX
- Cooler Fan: **Dual** Axial Fan, **Two-Ball** bearing
- Back Plate: **Yes**
- Bus Support: **x8 PCIe4.0**
- External Power: **1 x 8p**

## PRODUCT FEATURES

- RDNA Architecture
- 2<sup>nd</sup> Gen 7nm GPU
- GDDR6 Memory
- Power Efficiency
- PCI Express 4.0 Support
- Video Streaming up to 8K
- Display Port 1.4 (HBR3) / DSC
- Radeon™ Software
- Radeon™ Boost
- Radeon™ Image Sharpening
- Radeon™ Anti-Lag
- AMD FidelityFX
- Async Compute
- Radeon™ Rays Audio + True Audio Next
- Radeon™ FreeSync™ 2 HDR



## 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](http://amd.com/VRready).

### DIMENSION:

- **233(L)x 121.8(W)x 39.6 (H)**mm
- **4 x** Maximum Display Monitors support
- **3 x DP / 1 x HDMI**

### MAXIMUM DISPLAY RESOLUTION

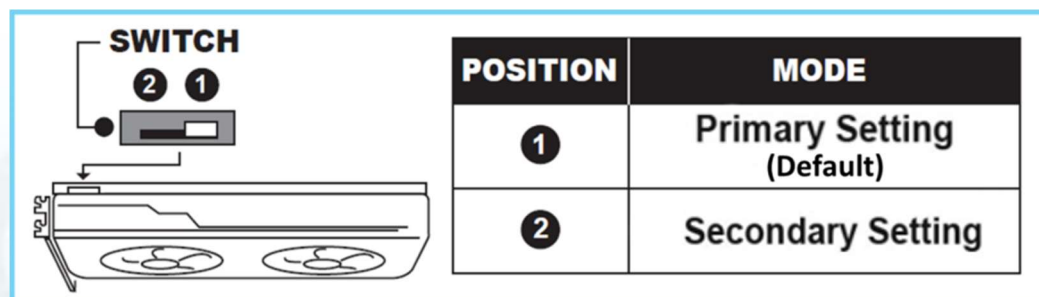
- HDMI™: 4096×2160@60Hz
- DisplayPort1.4: 5120×2880@60Hz

**Primary BIOS Settings (Default)**

Game Clock	Up to <b>1737 MHz</b>
Boost Clock	Up to <b>1845 MHz</b>
Memory Clock	14 Gbps
Typical GPU Temperature	70°C ~ 72°C

**Second BIOS Settings**

Game Clock	Up to <b>1717 MHz</b>
Boost Clock	Up to <b>1845 MHz</b>
Memory Clock	14 Gbps
Typical GPU Temperature	70°C ~ 72°C

**Dual BIOS**

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

*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.*

**Power Design**

SAPPHIRE PULSE cards are 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.



#### 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.

#### Quick Connect Fan

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.

#### 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 SAPPHIRE graphics cards are 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 each SAPPHIRE graphics card to cool down memory with a specially designed independent cooling module.

#### 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.

#### 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.

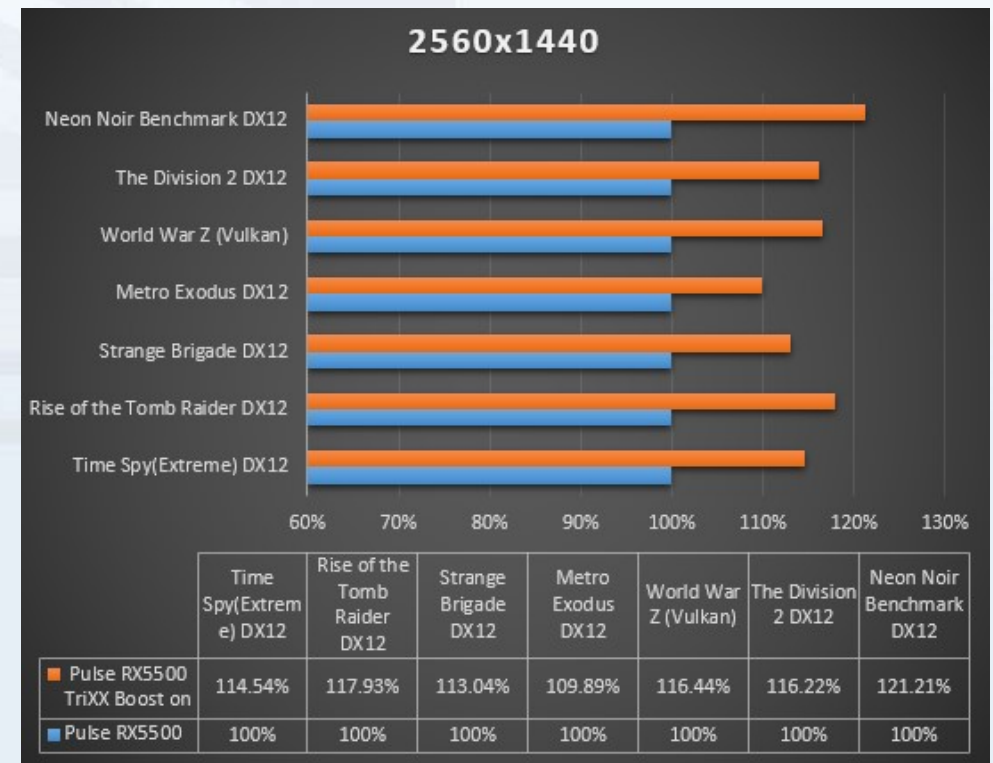


SAPPHIRE TriXX with its revamped and deceptively-simple interface features the New TriXX Boost feature. In order to gain higher game performance with given hardware, gamers can choose to run their game at a lower resolution. Traditionally the available resolutions choices are fixed to a small set of 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.

### 1920 X 1080

The chart displays FPS performance for seven games at 1920x1080 resolution. The x-axis ranges from 60% to 130%. For each game, two bars are shown: an orange bar representing 'Pulse RX5500 TriXX Boost on' and a blue bar representing 'Pulse RX5500 TriXX Boost off'. In all cases, the boost is enabled.

	Pulse RX5500 TriXX Boost on	Pulse RX5500 TriXX Boost off
Neon Noir Benchmark DX12	119.07%	100%
The Division 2 DX12	116.07%	100%
World War Z (Vulkan)	113.64%	100%
Metro Exodus DX12	106.49%	100%
Strange Brigade DX12	115.31%	100%
Rise of the Tomb Raider DX12	115.45%	100%
Time Spy(Extreme) DX12	112.38%	100%



### **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.

