

# Sapphire Nitro RX 470 8GD5 (UEFI) SKU number: 11256-17

# SAPPHIRE

**AMD**  
**RADEON**  
GRAPHICS

## SPECIFICATION

- GPU: AMD Radeon **RX 470** Graphics
- Stream Processors: Up to **2048** unit
- Compute Units: **32**
- Boost Clock: Up to **1236** MHz
- Base Clock: **1140** MHz
- Memory Clock: Up to **1750** MHz , Effective **7000**Mbps
- Memory Type: **8192**MB
- Bus Interface: PCI-E 3.0 x 16
- HDCP support: Yes
- Firmware: **UEFI** BIOS
- External Power: PCIe Graphic External **1 x 8** pin
- Cooling System: Dual slot, **Dual Fan**
- Bracket: Full Height
- Software: Driver DVD
- Crossfire Support: Crossfire up to 2 GPUs (Bridgeless)

## SYSTEM REQUIREMENTS

- PCI Express® based PC is required with one X16 lane graphics slot available on the motherboard.
- 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.
  - **500W** (or greater) power supply with minimum **one PCIE 8 pin** power connector is required.
- OEM and other pre-assembled PCs may have different power requirements.
- Minimum 4GB of system memory. Recommended 8GB.
- Installation software requires a keyboard, a mouse, and a display.
- DVD playback requires DVD drive and a DVD.
- A display with digital input (HDMI™ or DisplayPort) is required.
- Blu-ray™ playback requires Blu-ray drive a
- Supported operating systems include Windows® 10, and Windows® 7.
- 64-bit operating system required.

## PRODUCT FEATURES

- **Sapphire Dual-X** Cooling Technology
- FinFET 14 Technology
- Microsoft DirectX® 12 Support (DirectX® 12 OPTIMIZED)
- 4th GCN Architecture (Powered by Polaris Architecture)
- Vulkan™ API support
- Virtual Super Resolution (VSR)
- AMD FreeSync™ Technology
- AMD Eyefinity
- OpenGL® 4.5 support
- OpenCL™ Support
- XConnect Support
- HDMI™ 2.0b / Display Port 1.4 (DisplayPort 1.2 Certified, DisplayPort 1.3/1.4 Ready)
- Dolby® TrueHD and DTS-HD Master Audio™ Support
- AMD TrueAudio™ Next Technology
- Frame Rate Target Control (FRTC)



## DIMENSION:

- **230(L)x 126(W)x 41 (H)**mm
- **5** x Maximum Display Monitors support
- **2 x DP / 2 x HDMI / 1 x DVI-D**

## ACCESSORIES

- NA

## MAXIMUM DISPLAY RESOLUTION

- HDMI 2.0: 3840x2160p (60 Hz)
- DisplayPort 1.4: 3840x2160 (120Hz)
- DL-DVI-D: 2560x1600 (60Hz)

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### Cooling System (Dual-X Cooling)

Cooling Fan	95mm x 2 Sleeve Bearing Quick Connect Support	
Cooling Module	6mm Heat-Pipe x2	
NITRO Back-Plate	No	

### Board Design

Power Design	4 VDDC + 1VDDCI + 1MVDD On-Semi NCP81022 Controller IC+ DR MOS SiC632 VDDC
PCB Layer	8 Layers
RGB LED	No
External Power Connector	PCI-Express x 8 pin power connector
Product Positioning	Faster Than RX 480 MBA, 10% Faster than GTX 970

### Boost settings(Default)

Engine Clock	Boost Clock 1236 MHz / Base Clock 1140 MHz
Memory Clock	1750 MHz, 7.0 Gbps
Target GPU Temperature	74°C
Fan Speed	Nominal 0~2150 RPM / Maximum 3200 RPM



### VR Friendly

The SAPHIRE NITRO Gaming Series cards come 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 2.0b, the latest update, with an 18Gbps bandwidth, up to 32 audio channels, and is able to support 4K 50/60 resolutions like 2160P, whilst remaining entirely backwards compatible with older HDMI specifications.





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### Dual-X Cooling

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

### 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!

### NITRO Cool Tech

With the SAPPHIRE NITRO Gaming Series cards' Intelligent Fan Control III, the fan starts precisely at 56 degrees Celsius to smartly balance performance against fan noise.



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## **AMD 4th GCN Architecture**

4th Gen GCN Architecture for AMD's unified graphics processing and compute cores features enhanced shader performance, a new Geometry Engine, and new memory compression technology that allows for improved performance and efficiency.



## **AMD Free-Sync™ Technology**

AMD FreeSync™ technology in select AMD APU's and GPU's synchronizes the update rate of a monitor to your favorite game, eliminating tears and choppiness for effortlessly smooth gameplay.



## **AMD Eyefinity Technology**

Expand your territory and customize your field of vision. Connect up to six displays on a single GPU for dynamic, panoramic multi-screen gaming.



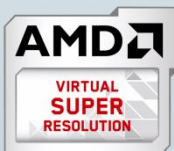
## **AMD CrossFire™**

Multi-GPU support offers superior scalability. AMD CrossFire™ technology enables a bridgeless AMD CrossFire multi-GPU configuration.



## **AMD TrueAudio™ Next Technology**

A revolutionary audio processing environment utilizing the 4th Generation GCN compute units to create the most realistic 3D surround environments for VR gaming.



## **Virtual Super Resolution (VSR)**

VSR automatically re-renders games at higher resolutions (up to 4K-quality) and then dynamically rescales them for HD displays at higher quality and details.

## **Microsoft DirectX® 12 Support**

RADEON™ RX 400 Series Graphics fully support Microsoft® DirectX® 12, with the following enhancements:

- Faster Tessellation
- Tiled Resources: Support for massive virtual textures, enabling dynamic loading of tiles into graphics RAM for expansive game world details.

## **DirectX®12 OPTIMIZED**

AMD's key advantage of Async Shaders bring increased levels of utilization for graphics, compute, and memory workloads to ensure your games don't miss a beat.

## **Powered by Polaris Architecture**

Radeon™ RX graphics cards feature the latest Polaris architecture which includes the 4th Gen GCN graphics cores, a brand new display engine, new multimedia cores, all on the revolutionary FinFET 14 process technology for enhanced performance and efficiency.

## **Dolby® TrueHD and DTS-HD Master Audio™ Support**

Support of content-protected, high-bandwidth, 7.1 channels of surround sound over HDMI™ and DisplayPort.

*NOTE: Receiver or HDTV that supports these audio formats required.*

## **FinFET 14**

The FinFET 14 process technology puts more transistors in less space, enabling dramatic increases in processing power and power efficiency.

## **Frame Rate Target Control (FRTC)**

Allows users to set a frame rate target when playing an application; the benefit being that users can reduce GPU power consumption (great for games running at frame rates much higher than the display refresh rate).

## **Vulkan™**

Next generation multi-platform API enables improved graphics and fluid visuals for next generation gaming

## **Ready for AMD XConnect™ Technology**



Should a PC gamer on the go buy a gaming notebook that's tough to carry, or a thin notebook that's tough to game on? AMD XConnect™ unlocks the best of both worlds on systems designed for Thunderbolt™ 3 eGFX enclosures—an ideal form factor for fast and efficient Polaris-powered GPUs.