

Sapphire Nitro RX 460 4GD5 (UEFI) SKU number: 11257-02

SPECIFICATION

- GPU: AMD Radeon **RX 470** Graphics
- Stream Processors: Up to **896** unit
- Compute Units: **14**
- Boost Clock: Up to **1250** MHz
- Base Clock: **1175** MHz
- Memory Clock: Up to **1750** MHz , Effective **7000**Mbps
- Memory Type: **4096**MB
- Bus Interface: PCI-E 3.0 x 8
- HDCP support: Yes
- Firmware: **UEFI** BIOS
- External Power: PCIe Graphic External **1 x 6** 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.
 - **450W** (or greater) power supply with minimum **one PCIE 6 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:

- **221(L)x 123(W)x 38 (H)**mm
- **3 x** Maximum Display Monitors support
- **DP / HDMI / DVI-D**

ACCESSORIES


- NA

MAXIMUM DISPLAY RESOLUTION

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

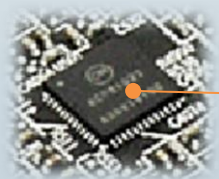
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Cooling System (Dual-X Cooling)

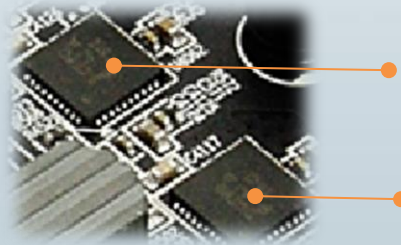
Cooling Fan	92mm x 2 Sleeve Bearing Quick Connect Support	
Cooling Module	6mm Heat-Pipe x 2	
NITRO Back-Plate	No	
Board Design		
Power Design	4 VDDC + 1VDDCI + 1MVDD Onsemi81022 Controller IC Fairchild D.R integrated Mosfet	
PCB Layer	6 Layers	
RGB LED	Self-color LED	
External Power Connector	PCI-Express x 6 pin power connector	
Product Positioning	GTX 960 performance at \$139	

NITRO Boost settings(Default)

Engine Clock	Boost Clock 1250 MHz / Base Clock 1175 MHz
Memory Clock	1750 MHz, 7.0 Gbps
Target GPU Temperature	75°C
Fan Speed	Nominal 0~1900 RPM / Maximum 3500 RPM



Onsemi81022



Fairchild D.R Mosfet



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SAPPHIRE



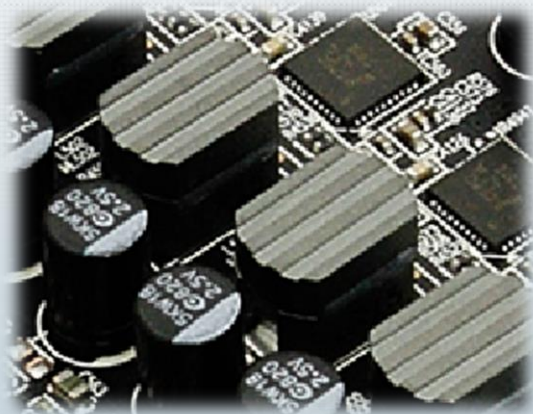
Quick Connect

If there's a fan problem, you don't have to return the entire card – SAPHIRE or our channel partners will send out a replacement fan directly to you!



NITRO Cool Tech

With the SAPHIRE NITRO Gaming Series cards' Intelligent Fan Control III, the fan starts precisely at 52 degrees Celsius to smartly balance performance against fan noise.



TRIXX 3.0
SAPHIRE Tuning Utility

Black Diamond 4th Chokes

Our Black Diamond Chokes are 10% cooler and 25% more power efficient than a normal choke - and these Mark 4 Chokes reduce the coil temperatures by other 15% over the Mark 3s. These exclusive chokes will maintain gaming stability using their built-in heatsinks and help minimize coil whine.

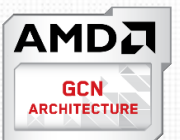
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SAPPHIRE



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.



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 APUs and GPUs 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