

**Sapphire Radeon RX 460 4GD5 (UEFI) SKU number: 11257-11****SPECIFICATION**

- GPU: AMD Radeon **RX 460** Graphics
- Stream Processors: Up to **896** unit
- Compute Units: **14**
- Boost Clock: Up to **1216** MHz
- Base Clock: **1090** 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: **NA**
- Cooling System: Dual slot, **Single 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.  
- **400W** (or greater) power supply 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 Sun-Flower** 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:**

- **214(L)x 111.5(W)x 38 (H)**mm
- **3 x** Maximum Display Monitors support
- **1 x DP / 1 x HDMI / 1 x DVI-D**

**ACCESSORIES**

- **NA**

**MAXIMUM DISPLAY RESOLUTION**

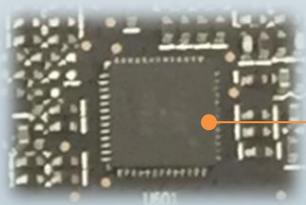
- HDMI 2.0: 3840x2160p (60 Hz)
- DisplayPort 1.4: 3840x2160 (120Hz)
- DL-DVI-D: 2560x1600 (60Hz)



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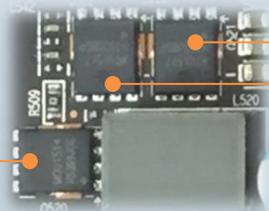
<b>Cooling System ( Dual-X Cooling)</b>	
Cooling Fan	90mm x 1 Sleeve Bearing
Cooling Module	Aluminum Extrusion Sun-Flower Module
NITRO Back-Plate	No
<b>Board Design</b>	
Power Design	3 VDDC + 1 VDDCI + 1 MVDD -RickTeck RT8880 Controller IC -MagnaChip MDU1514(high side) -MDU1517(low side) x 2
PCB Layer	4 Layers
RGB LED	No
External Power Connector	No
Product Positioning	Faster than GTX 950 in less than 75W

<b>Sapphire Boost settings(Default)</b>	
Engine Clock	Boost Clock 1216 MHz / Base Clock 1090 MHz
Memory Clock	1750 MHz, 7.0 Gbps
Target GPU Temperature	70°C
Fan Speed	Nominal ~1000 RPM / Maximum 2600 RPM



RT8880

MDU1514



MDU1517

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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.



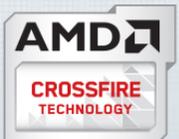
## AMD Free-Sync™ Technology

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