

CPUGPUSSDHDDRAMUSBFPS

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Today's hottestAmazonEbaydeals

CPUGPUSSDHDDRUSBRAMMBD

Gigabyte X470 AORUS ULTRA GAMING

Performance Results

ADD TO PC BUILDTEST YOUR PC

Gaming 96%

Nuclear submarine

Desktop 124%

UFO

Workstation 120%

UFO

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PC Status

Overall this PC is performing as expected (55th percentile). This means that out of 100 PCs with exactly the same components, 45 performed better. The overall PC percentile is the average of each of its individual components.

Processor

With a brilliant single core score, this CPU is the business: It demolishes everyday tasks such as web browsing, office apps and audio/video playback. Additionally this processor can handle intensive workstation, and even full-fledged server workloads. Finally, with a gaming score of 101%, this CPUs suitability for 3D gaming is outstanding.

Graphics

90.4% is a very good 3D score, it's the business. This GPU can handle recent 3D games at high resolutions and ultra detail levels.

Boot Drive

226% is an exceptional SSD score. This drive is suitable for heavy workstation use, it will facilitate fast boots, responsive applications and allow for fast transfers of multi-gigabyte files.

Memory

16GB is enough RAM to run any version of Windows and it's more than sufficient for nearly all games. 16GB also allows for very large file and system caches, software development and batch photo editing/processing.

OS Version

Windows 10 is the most recent version of Windows, and the best to date in our opinion.

System

Gigabyte X470 AORUS ULTRA GAMING

Motherboard

Gigabyte X470 AORUS ULTRA GAMING (all builds)

Memory

13.1 GB free of 16 GB @ 3 GHz

Display

1920 x 1080 - 32 Bit Farben

OS

Windows 10

BIOS Date

20190416

Uptime

0:1 Days

Run Date

May 10 '19 at 19:33

Run Duration

144 Seconds

Run User

DEU-User

Background CPU

23%

High background CPU (23%). High background CPU reduces benchmark accuracy. Find active processes with Windows task manager (CTRL+SHIFT+ESC).

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## PC Performing as expected (55th percentile)

Actual performance vs. expectations. The graphs show user score (x) vs user score frequency (y).

Processor

2700X

AMD Ryzen 7 2700X-€215

106,375 User benchmarks, average bench 100%

AM4, 1 CPU, 8 cores, 16 threads

Base clock 4 GHz, turbo 3.95 GHz (avg)

Performing above expectations (68th percentile)

Bench

101%

Outstanding

Single core

SC Int 113

SC Float 124

SC Mixed 118

95% 118 Pts

Quad core

QC Int 454

QC Float 472

QC Mixed 473

106% 466 Pts

Multi core

MC Int 1,303

MC Float 1,360

MC Mixed 1,338

200% 1,334 Pts

Graphics Card

Nvidia GTX 1660-Ti-€296

10,436 User benchmarks, average bench 92%

Gigabyte(1458 3FC3)

Clim: 2100 MHz, Mlum: 3000 MHz, Ram: 6GB, Driver: 419.17

Performing below expectations (28th percentile)

Bench

90.4%

Outstanding

3D DX9

Lighting 288

Reflection 230

Parallax 262

86% 260 fps

3D DX10

MRender 216

Gravity 258

Splatting 174

93% 216 fps

3D DX11

Drives

Samsung 970 Evo Plus NVMe PCIe M.2 500GB-€117

11,246 User benchmarks, average bench 288%

373GB free (System drive)

Firmware: 1B2QEXM7 Max speed: PCIe 5,000 MB/s

SusWrite @10s intervals: 1067 1057 842 811 812 808 MB/s

Performing way below expectations (8th percentile)

Bench

226%

Outstanding

Sequential

Read 1,353

Write 1,078

Mixed 1,099

SusWrite 899

248% 1,108 MB/s

Random 4k

4K Read 60.9

4K Write 111

4K Mixed 76.9

249% 82.8 MB/s

Deep queue 4k

DQ Read 1,030

DQ Write 732

DQ Mixed 645

641% 869 MB/s

WD Green 120GB (2016)-€32

9,496 User benchmarks, average bench 52%

109GB free

Firmware: Z3311000

SusWrite @10s intervals: 182 163 93 96 92 90 MB/s

Performing way above expectations (90th percentile)

Bench

62.7%

Good

Sequential

Read 488

Write 404

Mixed 381

SusWrite 119

78% 348 MB/s

Random 4k

4K Read 22.2

4K Write 54.5

4K Mixed 18.9

87% 31.9 MB/s

Deep queue 4k

DQ Read 141

DQ Write 308

DQ Mixed 31.9

79% 160 MB/s

WD Green 1TB (2011)-€50

55,244 User benchmarks, average bench 64%

541GB free

Firmware: 01.01.A01

SusWrite @10s intervals: 110 114 114 116 116 115 MB/s

Performing as expected (54th percentile)

Bench

65.5%

Good

Sequential

Read 114

Write 108

Mixed 76.9

SusWrite 114

76% 103 MB/s

Random 4k

4K Read 1.2

4K Write 2.3

4K Mixed 1

204% 1.5 MB/s

Deep queue 4k

Memory Kit

Corsair Vengeance LPX DDR4 3000 C16 2x8GB

7,485 User benchmarks, average bench 86%

2 of 4 slots used

16GB DIMM DDR4 clocked @ 3000 MHz

Performing above expectations (83rd percentile)

Bench

98.5%

Outstanding

Multi core

MC Read 41.3

MC Write 34.9

MC Mixed 30.3

101% 35.5 Gbs

Single core

SC Read 25.4

SC Write 37.6

SC Mixed 27.1

86% 30 Gbs

Latency

Latency 72.1

56% 72.1 ns

Take a copy of your results

## System Memory Latency Ladder

L1/L2/L3 CPU cache and main memory (DIMM) access latencies in nano seconds (explanation by AdoredTV).

## PC Games

Compare your in-game performance to other users with your hardware: GTX 1660-Ti, Display(C24FG70), 1920 x 1080, 144 Hz.

1. Pick a game that you play on this PC.

Fortnite

Counter-Strike: Global Offensive

PlayerUnknown's Battlegrounds

Grand Theft Auto V

League of Legends

Apex Legends

Minecraft

The Witcher 3: Wild Hunt

Overwatch

Tom Clancy's Rainbow Six Siege

World of Warcraft: Battle for Azer...

Rust

Rocket League

Call of Duty: Black Ops 4

World of Warships

World of Warcraft

Arma 3

Far Cry 5

MORE GAMES

2. What settings do you play on?

Settings Low Med High Max

3. How many (uncapped) fps do you get?

Avg. fps

SUBMIT YOUR FPS

## Custom PC Builder (Explore upgrades for this PC)

Build your perfect PC: compare component prices, popularity, speed and value for money.

CHOOSE AN UPGRADE:

CPU

GPU

SSD

HDD

RAM

MBD

## Typical GA-X470 AORUS ULTRA GAMING-CF Builds (Compare 13,150 builds)

See popular component choices, score breakdowns and rankings.

Gaming 77%

Battleship

Desktop 127%

UFO

Workstation 118%

UFO

Motherboard: Gigabyte X470 AORUS ULTRA GAMING - €140

CPU	GPU	SSD	RAM
<div>Ryzen 7 2700X</div> <div>AMD €215</div> <div>Bench 100%, 106,375 samples</div>	<div>GTX 1060-6GB</div> <div>Nvidia €195</div> <div>Bench 70%, 565,980 samples</div>	<div>970 Evo NVMe PCIe M.2 500GB</div> <div>Samsung €120</div> <div>Bench 266%, 81,266 samples</div>	<div>Vengeance LPX DDR4 3000 C15 2x8GB</div> <div>Corsair €88</div> <div>Bench 86%, 172,645 samples</div>
<div>Ryzen 5 2600X</div> <div>AMD €185</div> <div>Bench 93%, 58,410 samples</div>	<div>RX 580</div> <div>AMD €184</div> <div>Bench 70%, 176,726 samples</div>	<div>970 Evo NVMe PCIe M.2 250GB</div> <div>Samsung €60</div> <div>Bench 236%, 65,899 samples</div>	<div>Ripjaws V DDR4 3200 C16 2x8GB</div> <div>G.SKILL €95</div> <div>Bench 93%, 52,645 samples</div>
<div>Ryzen 5 2600</div> <div>AMD €151</div> <div>Bench 88%, 126,521 samples</div>	<div>GTX 1080</div> <div>Nvidia €450</div> <div>Bench 121%, 470,850 samples</div>	<div>860 Evo 500GB</div> <div>Samsung €78</div> <div>Bench 107%, 117,775 samples</div>	<div>Trident Z RGB DDR4 3200 C16 2x8GB</div> <div>G.SKILL €115</div> <div>Bench 90%, 63,078 samples</div>

EDIT WITH CUSTOM PC BUILDER

Value: 150% - Outstanding

Total price: €758

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## The Best.

CPU

Intel Core i7-8700K €370  
AMD Ryzen 5 2600 €151  
AMD Ryzen 5 1600 €135

GPU

Nvidia GTX 1070 €308  
Nvidia GTX 1060-6GB €245  
Nvidia GTX 1080-Ti €791

SSD

Samsung 850 Evo 250GB €78  
Samsung 850 Evo 500GB €109  
Samsung 850 Pro 256GB €144

HDD

Seagate Barracuda 1TB (2016) €38  
WD Blue 1TB (2012) €40  
Seagate Barracuda 3TB (2016) €87

RAM

Corsair Vengeance LPX DDR4 3000 C15 2x8GB €88  
G.SKILL Trident Z DDR4 3200 C14 4x16GB €774  
Corsair Vengeance LPX DDR4 3200 C16 2x8GB €97

USB

SanDisk Extreme 64GB €40  
SanDisk Extreme 32GB €25  
SanDisk Ultra Fit 32GB €17

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