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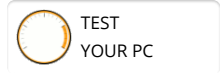
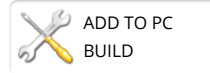
Ebay

CPU GPU SSD HDD USB RAM MBD



MSI Z87-G43 GAMING (MS-7816)

# Performance Results



Benchmarks - excluding SSD



Gaming 41%

Speed boat



Desktop 57%

Gunboat



Workstation 37%

Jet ski

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### PC Status

Overall this PC is performing as expected (51st percentile). This means that out of 100 PCs with exactly the same components, 49 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 moderate workstation, and even light server workloads. Finally, with a gaming score of 87.2%, this CPUs suitability for 3D gaming is excellent.

### Graphics

38.9% is a below average 3D score (GTX 1070 = 100%). This GPU can handle older **games** but it will struggle to render recent games at resolutions greater than 1080p. (Note: general computing tasks don't require 3D graphics)

### Memory

8GB is enough RAM to run any version of Windows and it's sufficient for the vast majority of games. 8GB is also enough for moderate file and system caches which result in a very responsive system.

### OS Version

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

System	MSI MS-7816
Motherboard	MSI Z87-G43 GAMING (MS-7816) (all builds)
Memory	5.9 GB free of 8 GB @ 1.6 GHz
Display	1440 x 900 - 32 Bit Farben
OS	Windows 10
BIOS Date	20150518
Uptime	0 Days
Run Date	Jan 22 '19 at 11:09
Run Duration	143 Seconds
Run User	DEU-User
Background CPU	7%

## ✓ PC Performing as expected (51<sup>st</sup> percentile) ?

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

Processor	Bench ?	Single core ?	Quad core ?	Multi core ?
<p>Intel Core i5-4670K-€247 65,380 User benchmarks, average bench 79% SOCKET 0, 1 CPU, 4 cores, 4 threads Base clock 3.4 GHz, turbo 4 GHz (avg) ✓ Performing above expectations (79<sup>th</sup> percentile) ?</p>	87.2% Excellent	SC Int 118 SC Float 114 SC Mixed 116 93% 116 Pts	QC Int 467 QC Float 456 QC Mixed 460 104% 461 Pts	MC Int 464 MC Float 444 MC Mixed 458 68% 455 Pts
<p>Poor: 62%      ↑      Great: 96%</p> <p style="text-align: center;">This bench: 87.2%</p>				

Graphics Card	Bench ?	3D DX9 ?	3D DX10 ?	3D DX11 ?
<p>Nvidia GTX 1050-Ti-€162 297,736 User benchmarks, average bench 38% MSI(1462 8C96) CLim: 1961 MHz, MLim: 1752 MHz, Ram: 4GB, Driver: 399.24 ✓ Performing above expectations (67<sup>th</sup> percentile) ?</p>	38.9% Below average	Lighting 116 Reflection 81.6 Parallax 121 36% 106 fps	MRender 80.8 Gravity 117 Splating 85.4 41% 94.4 fps	
<p>Poor: 32%      ↑      Great: 42%</p> <p style="text-align: center;">This bench: 38.9%</p>				

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# UserBenchmark

DEU-User

DE

CPU GPU SSD HDD RAM USB FPS

COMPARE BUILD TEST



Intenso SSD 120GB  
 813 User benchmarks, average bench 69%  
 13GB free (System drive)  
 Firmware: Q0831C0  
 ▲ Relative performance n/a - sequential bench incomplete

Read 460	4K Read 46.3	DQ Read 237
Write 398	4K Write 79.6	DQ Write 195
Mixed 241	4K Mixed 23.5	DQ Mixed 30.1
81% 366 MB/s	142% 49.8 MB/s	73% 154 MB/s

Poor: 44% Great: 99%



Samsung Spinpoint F3 1TB-€60  
 63,228 User benchmarks, average bench 60%  
 880GB free  
 Firmware: 1AJ10001  
 SusWrite @10s intervals: 126 122 123 123 124 119 MB/s  
 ✓ Performing way above expectations (89<sup>th</sup> percentile)

73%  
Very good

Read 131	4K Read 0.9
Write 139	4K Write 2.9
Mixed 69.6	4K Mixed 1.1
SusWrite 123	213% 1.63 MB/s
85% 116 MB/s	

Poor: 33% Great: 75%  
This bench: 73%



Asmt 2115 1TB  
 434 User benchmarks, average bench 44%  
 879GB free  
 Firmware: 0  
 SusWrite @10s intervals: 41 41 14 12 7.1 7 MB/s  
 ▲ Performing way below expectations (12<sup>th</sup> percentile)

17.1%  
Very poor

Read 38.5	4K Read 0.6
Write 40.7	4K Write 2.1
Mixed 33.2	4K Mixed 0.7
SusWrite 20.4	142% 1.13 MB/s
25% 33.2 MB/s	

Poor: 16% Great: 76%  
This bench: 17.1%

## Memory Kit

Bench

Multi core

Single core

Latency



Crucial Ballistix Sport DDR3 1600 C9 2x4GB  
 22,937 User benchmarks, average bench 55%  
 2 of 4 slots used  
 8GB DIMM DDR3 clocked @ 1600 MHz  
 ▲ Performing below potential (10<sup>th</sup> percentile) - ensure that a dual+ channel XMP BIOS profile is enabled

35.6%  
Below average

MC Read 11.4	SC Read 10.1
MC Write 11.7	SC Write 11.9
MC Mixed 10.1	SC Mixed 10.5
32% 11.1 GB/s	31% 10.8 GB/s

Latency 54.8  
73% 54.8 ns

Poor: 32% Great: 65%  
This bench: 35.6%

Take a copy of your results

## System Memory Latency Ladder

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

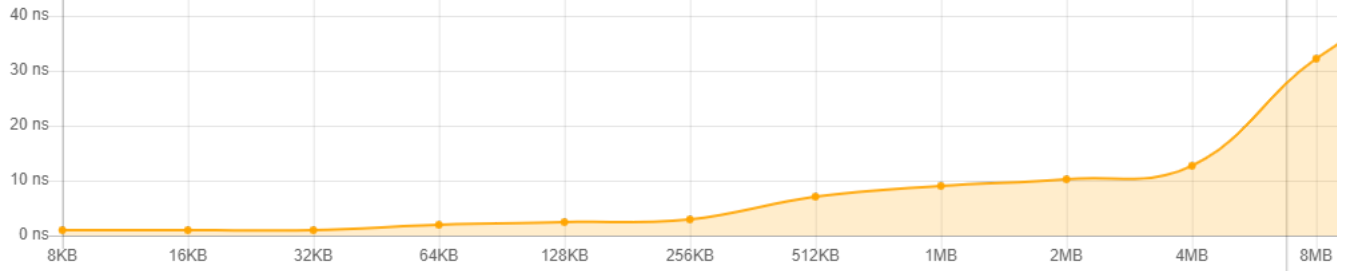
# UserBenchmark

DEU-User

DE

CPU GPU SSD HDD RAM USB FPS

COMPARE BUILD TEST



## PC Games

Compare your in-game performance to other users with your hardware: GTX 1050-Ti, Display(MD20831), 1920 x 1080, 60 Hz.

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

Fortnite	Counter-Strike: Glob...	PlayerUnknown's Ba...
League of Legends	Grand Theft Auto V	Overwatch
Minecraft	Battlefield 5	The Witcher 3: Wild ...
World of Warcraft: B...	X-Plane 11	World of Warcraft
Battlefield 1	Assassin's Creed Od...	World of Warships
War Thunder	ARK: Survival Evolved	Rocket League

Dead by Daylight

2. What settings do you play on?

Settings

Low	Med	High	Max
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3. How many (uncapped) fps do you get?

Avg. fps

SUBMIT YOUR FPS

Please set your average 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
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