Gigabyte GA-B450M DS3H V2

Performance Results

ADD TO PC BUILD

TEST YOUR PC

Benchmarks - missing GPU

Gaming 0%
Incomplete

Desktop 0%
Incomplete

Workstation 0%
Incomplete

Save results | Copy results | User guide | </> | f | t

PC Status	Overall this PC is performing as expected (48th percentile). This means that out of 100 PCs with exactly the same components, 52 performed better. The overall PC percentile is the average of each of its individual components.
Processor	With a good single core score, this CPU can easily handle the majority of general computing tasks. Despite its good single core score this processor isn't appropriate for workstation use due to its relatively weak multi-core performance. Finally, with a gaming score of 58.5%, this CPU's suitability for 3D gaming is average.
Boot Drive	160% 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.

Motherboard	Gigabyte GA-B450M DS3H V2 (all builds)
Memory	12.3 GB free of 16 GB @ 2.1 GHz
Display	1280 x 720 - 32 Bit colors
OS	Windows 10
BIOS Date	20200817
Uptime	2.9 Days
Run Date	Apr 14 '21 at 23:26
Run Duration	127 Seconds
Run User	JAM-User
Background CPU	⚠ 19%

⚠ Sub-optimal background CPU (19%). High background CPU reduces benchmark accuracy. How to reduce background CPU.

Run History

13 mins ago, **24 secs ago.**

✔ PC Performing as expected (48th percentile)

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

Processor	Bench	Normal	Heavy	Server
AMD Athlon 3000G-$49 5,679 User benchmarks, average bench 59% AM4, 1 CPU, 2 cores, 4 threads Base clock 3.5 GHz, turbo 3.45 GHz (avg) ✔ Performing as expected (53rd percentile)	58.5% Above average	Memory 69 1-Core 93 2-Core 161 64% 108 Pts	4-Core 279 8-Core 275 38% 277 Pts	64-Core 289 19% 289 Pts

Poor: 46% ↑ Great: 66%
This bench: 58.5%

Drives	Bench	Sequential	Random 4k	Deep queue 4k
Spcc M.2 PCIe SSD 256GB 9,921 User benchmarks, average bench 163% 219GB free (System drive) Firmware: EDFM20.0 Max speed: PCIe 5,000 MB/s	160% Outstanding	Read 972 Write 1046 Mixed 947 SusWrite 386	4K Read 48.9 4K Write 115 4K Mixed 59.9	DQ Read 732 DQ Write 702 DQ Mixed 710

Drives | Bench | Sequential | Random 4k | Deep queue 4k

SusWrite @10s intervals: 1023 476 204 204 207 201 MB/s

188% 838 MB/s | 212% 74.6 MB/s | 535% 715 MB/s

✔ Performing as expected (43rd percentile)

Poor: 106% This bench: 160% Great: 212%

WD Blue 1TB (2012)-$34

2,601,616 User benchmarks, average bench 84%

931GB free
Firmware: 02.01A02
SusWrite @10s intervals: 78 128 176 178 178 178 MB/s
✔ Performing above expectations (76th percentile)

97.9% Outstanding

Read 189
Write 102
Mixed 61.1
SusWrite 152
92% 126 MB/s

4K Read 1.3
4K Write 0.9
4K Mixed 0.8
160% 1 MB/s

Poor: 55% This bench: 97.9% Great: 109%

Memory Kit	Bench	Multi core	Single core	Latency

G.SKILL Aegis DDR4 3200 C16 2x8GB

19,410 User benchmarks, average bench 85%

2 of 4 slots used
16GB DIMM DDR4 clocked @ 2133 MHz
⚠ Performing below potential (19th percentile) - ensure that a dual+ channel XMP BIOS profile is enabled: How to enable XMP

69.5% Good

MC Read 28.5
MC Write 26.3
MC Mixed 24.7
76% 26.5 GB/s

SC Read 14.9
SC Write 15.5
SC Mixed 13.5
42% 14.6 GB/s

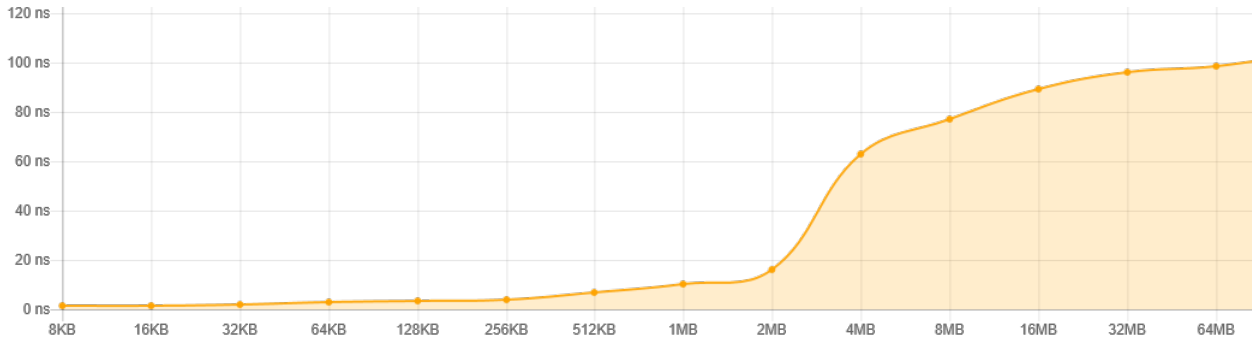
Latency 104
39% 104 ns

Poor: 65% This bench: 69.5% Great: 108%

Take a copy of your results | How to check your in-game FPS

System Memory Latency Ladder

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



Custom PC Builder (Explore upgrades for this PC)

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

CHOOSE AN UPGRADE:

Typical GA-B450M DS3H V2 Builds (Compare 2,703 builds)

See popular component choices, score breakdowns and rankings.

Gaming 64%
Destroyer

Desktop 87%
Aircraft carrier

Workstation 61%
Destroyer

Motherboard: Gigabyte GA-B450M DS3H V2

CPU

Ryzen 5 3600 AMD $224 Bench 84%, 753,232 samples	774x	
Ryzen 5 2600 AMD $185 Bench 76%, 620,722 samples	316x	
Ryzen 5 3400G AMD $150 Bench 73%, 61,254 samples	183x	

GPU

GTX 1660S (Super) Nvidia $240 Bench 71%, 224,893 samples	231x	
RX 580 AMD $220 Bench 55%, 635,960 samples	182x	
GTX 1050-Ti Nvidia $155 Bench 31%, 743,604 samples	159x	

SSD

A400 240GB Kingston $32 Bench 68%, 291,555 samples	119x	
Blue SN550 NVMe PCIe M.2 500GB WD $60 Bench 206%, 51,098 samples	90x	
A400 480GB Kingston $49 Bench 75%, 147,321 samples	90x	

RAM

Vengeance LPX DDR4 3200 C16 2x8GB Corsair $79 Bench 85%, 429,937 samples	168x	
HyperX DDR4 3200 C16 2x8GB Kingston Bench 87%, 146,382 samples	167x	
TEAMGROUP-UD4-3200 2x8GB Unknown Bench 84%, 55,227 samples	108x	

EDIT WITH CUSTOM PC BUILDER

Value: 77% - Very good

Total price: $575

The Best.

CPU

Intel Core i5-11400F $180
Intel Core i5-11600K $265
Intel Core i7-10700K $310

GPU

Nvidia RTX 3060-Ti $400
Nvidia RTX 3070 $500
Nvidia GTX 1660S (Super) $240

SSD

Crucial MX500 250GB $49
Samsung 850 Evo 120GB $78
Samsung 860 Evo 250GB $50

HDD

Seagate Barracuda 1TB (2016) $38
WD Blue 1TB (2012) $34
Seagate Barracuda 3TB (2016) $85

RAM

Corsair Vengeance LPX DDR4 3200 C16 2x8GB $79
Corsair Vengeance LPX DDR4 3000 C15 2x8GB $73
G.SKILL Trident Z DDR4 3200 C14 4x16GB $649

USB

SanDisk Extreme 64GB $72
SanDisk Extreme 32GB $28
SanDisk Ultra Fit 32GB $16

Build Test EFps

Can You Run It?

YouTube *NEW*												