

Laptop/PC configuration

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1. Find the specifications of your laptop/PC. Give as many details as possible. (CPU, Cores, Hyperthreading, GPU, Cache, RAM, Storage, Capacity, Frequency, Power consumption, Battery, ...)

CPU: AMD Ryzen 7 7840HS w/ Radeon 780M Graphics

Cores: 8

Hyperthreading: Supports Simultaneous Multithreading (SMT). Each physical core can handle two threads simultaneously.

GPU: NVIDIA GeForce RTX 3050 6GB

Cache: L1 cache- 512 KB, L2 cache- 8.0 MB, L3 cache- 16 MB

RAM: 16.0 GB

Storage: 1TB

Frequency: 3.80 GHz

Power consumption: Supports configurable Thermal Design Power (TDP) from 35W to 54W.

Display: 1920x1080, 8-bit, RGB format

Display refresh rate: 144 Hz

2. How would you select a new laptop or PC if you were buying one? (Gaming, graphic design, video editing, physics simulation, etc.)

This is not an exhaustive list but these are the more important specifications that I will look for before buying a new laptop according to my choice of use.

Primary use case	Specifications to look at before buying
Gaming	<ul style="list-style-type: none">• High-performance CPU (Intel i5/i7 or AMD Ryzen 5/7) and dedicated GPU (NVIDIA RTX 3060 or higher)• high refresh rate display (at least 120 Hz)• Good storage• Fast cooling

Graphic Design	<ul style="list-style-type: none"> • Color-accurate display (4K, 100% sRGB or AdobeRGB) • Decent GPU • SSD rather than HDD for faster file access • More RAM (16 - 32 GB)
Video Editing	<ul style="list-style-type: none"> • High core count CPU and dedicated GPU • Color-accurate display (4K, 100% sRGB or AdobeRGB) • High RAM (32GB) • Large and fast SSD • Fast cooling
Physics Simulation	<ul style="list-style-type: none"> • High core count CPU performance(AMD Ryzen 9 7950X) • Ample RAM (32-64 GB) and Storage(1-2 TB) • GPU is not a necessary requirement.