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## Pc buyer' s guide august 2018 pdf

The solid state of the disk is often the most important component in order to make the PC feel fast and responsive; any computer still uses a mechanical hard drive as the main storage is long overdue for upgrade. The SSD market is wider than ever, with a wide range of prices, performance and form factors. Most of the SSD price changes we have noticed over the past month have been small price drops. The availability of supply also continues to improve, with fewer models. Few important new SSDs hit the market this month; The 8TB Samsung 870 SV0 is currently shipping, but recently announced the Samsung 980 PRO is not due to ship until mid-October. There's been quite a few more product ads in... Sometimes choosing a processor is difficult. So we've got your back. In our CPU guides, we give you our selection of some of the best processors available by delivering data... 46 Dr. Ian Cutress yesterday it's no secret that AMD has had a good couple of years with its zen and zen 2 architecture, and the next generation of zen 3 bloated a lot like... 25 Gavin Bonshore yesterday We are now last summer and approaching the cloudy months of autumn. Usually at this point in time we see a ton of news about Apple's latest iPhones, however this... 31 Andrey Frumusan 2 days ago There's no doubt that Intel has had a quiet first half of the year, with not much cadence in its production, aside from Comet Lake and associated with it No. 490 ... 12 Gavin Bonshore 2 days ago Sometimes choosing a processor is difficult. So we've got your back. In our CPU guides, we give you our selection of some of the best processors available by delivering data... 35 Dr. Ian Cutress on 8/12/2020 Continuing our launch of holiday shoppers guides, today we are looking at peripherals. Given that PC peripherals can easily outlive the components of the main system and tend to remain... 49 E. Fylladitakis on 12/6/2019 It's time for our holiday to take a look at the laptop market. After years of waiting, Intel has finally launched its latest 10th generation Core processor based on the long-awaited 10nm... 18 Brett Hawes on 11/22/2019 For gaming PCs that push pretty pixels on screens, the graphics card is the most important component. And given the huge number of custom options, choosing... 18 Nate O on 3/11/2019 Sometimes choosing a processor is difficult. So we've got your back. In our CPU guides, we give you our selection of some of the best processors available by delivering data... 11 Ian Cutress on 10/24/2018 In our series of best processors guide, here's the latest update to our recommended list of gaming processors. All the numbers in the text are updated to reflect the prices during the... 1 Ian Cutress on 7/6/2017 Unlike the red-hot smartphone market, which continues to grow, with new models appearing at blistering speed, tablet market, well... Apple is still releasing a few ... 30 Matt Humrick on 3/31/2017 When creating a custom PC, especially on the consumer side, the processor is usually second or third down the list of priorities, behind the graphics, storage or specific functions of the motherboard ... 17 Ian Cutress on 3/24/2015 In this holiday Buyer's Guide, we will be evaluating and recommending desktop PC power supplies. It is specified that the choice of PSU is based on the parameters... 23 E. Fylladitakis on 12/3/2014 Given the recent product releases in the SSD industry, this is now a good time to make another recommendation post purchase. We did our first Best SSDs post in... 42 Christian Yette on 7/23/2014 Continuing our Holiday Buyer's Guides series, today we will be looking at desktop graphics cards. Cyber Monday kicks off today, and while the graphics cards don't have... 44 Ryan Smith on 12/2/2013 Since the holiday shopping season is going at full speed and Black Friday is only a few days away, we do a bunch of product recommendation posts... 54 Christian Yette on 11/27/2013 Speed Issues. Processors with multiple cores can process more data at the same time, with four cores now increasingly common on laptops. Our rankings say how many cores the laptop processor has. The speed of the watch, measured in gigahertz (GHz), along with the number of cores and other factors, determines how quickly the processor can process information. Many processors can slightly up speed in a short time to give maximum performance. Typically, in a family of processors, the higher the clock speed, the faster the processor. The clock speed usually starts at about 1 GHz for a mobile processor. The speed of the working processor can exceed 5 GHz. Energy consumption is another important factor when choosing a processor, especially for laptops: Reducing power consumption equals a longer battery life. If you're looking for a very simple or budget computer to browse the web, email and work on Office documents, basically every processor on the market should be sufficient. If you plan to watch high-resolution videos or play major games, you should consider Intel Core i5 and AMD's Ryzen line How much memory? The more memory your computer has, the faster it is, to the point. Memory is measured in gigabytes (GB). On both of them and 8GB laptops has become common, with 16GB found on higher-end devices. If you regularly have several great apps open at the same time, 8GB should be your goal. Windows 10 provides a more unified interface across devices such as computers, tablets, Xbox consoles and smartphones. In addition, universal apps developed for Windows 10 will look and work the same on different devices. And many more games are available for Windows computers than for computers. Macs may be more expensive, but they are less prone to most viruses and spyware (partly because there are more Windows computers than Macs, making them a bigger target for hackers), and Apple's support has been top in our polls. The company's phone support is only free for 90 days, but you can get unlimited technical support through The Genius Bar in any Apple Store. The latest version of macOS (formerly known as OS X) is called Catalina and was released in the fall of 2019. A graphics adapter and graphics memory also known as a graphics card, GPU, or graphics card, this hardware is responsible for drawing what you see on the screen. The graphics processing comes in two main flavors: It can be integrated into the same chip that works on the rest of the computer or it can work on a discrete piece of equipment. Most computers have integrated graphics. This is usually a less expensive and low-performance option-penalty for most tasks, but not for serious games. If you're playing basic and extreme games with all the visual effects on or if you're editing videos, especially HD and Ultra High Definition (4K), you need discrete graphics. Easy editing of video and games and all other typical computer tasks will do well with integrated graphics. Some new processors integrate discrete graphics, offering excellent graphics without adding a single chip. It's time to get back to my list of the best PC hardware out there for cash right now in my latest batch of PC Hardware Best Buy Guide. I'll take a look at a few price ranges and the best hardware I've tested and recommend for each range to build a great computer. We've seen the introduction of Ryzen AMD processors with Radeon Vega graphics and since they allow you to build a super-cheap PCiK, I've added a super-cheap AMD system that costs less than \$500. I'll also be looking at a slightly higher price for a solid 1080p, 1400 and 4K games plus mini-game setup and PC content creation. Go to Mid-Range Gamer, High-End Gamer, Mini Gamer, Content Creator Ultra Low Budget PC - up to 1080p Games Cooler Master MasterBox Lite 3.1 PC Cooler Master ЦИА цена: процессор: AMD Ryzen 5 2400G - \$ 169 Motherboard: ASRock A320M-DGS - \$ 49.99 Память: Corsair 8GB DDR4 (2 x 4GB) Местъ LPX 3000 МГц - \$ 99.99 Дело: Cooler Master MasterBox Lite - \$ 37.99 Мощность Мощность VS450 \$39.99 Storage: 250GB Silicon Power 240GB SSD \$62.99 Total: \$459.95 UK Price: CPU: AMD Ryzen 5 5 5 5 2400G - No 138 Motherboard: ASRock A320M-DGS - 47.99 euros Memory: Corsair 8GB DDR4 (2 x 4GB) Revenge LPX 3000 MHz - 98.99 Euro Case: Cooler MasterBox Lite 3.1 - 37.99 Euro Nutrition: Corsair VS450 No32.61 Storage: Drevo X1 240GB SSD - 1 58.89 POUNDS Total: 414 GBP Summary System: AMD's new Ryzen processors allow you to ditch discrete graphics cards, but still offers enough game grunt to handle modest settings up to 1080p resolution. You won't be able to max out tweaks, but if you have a small budget, it's the perfect way to get into PC games, and the motherboard I chose allows you to slot in a more powerful graphics card at a later date. The Ryzen 5 2400G is the most powerful of the two APUs AMD launched recently, and it also offers a lot of grunt for video and photo editing too, thanks to its four cores and eight streams. If you want to save even more money, you can choose Ryzen 3 2200G, although it is less powerful inside and out of the game. In my recent \$500 gaming PC build, I chose Gigabyte's AB350M Gaming 3 motherboard as it could break up your CPU. It's still worth considering, but here I went for the ASRock A320M-DGS, which is one of the cheapest AM4 boards out there and is perfect if you won't be speeding up. I was massively impressed with Cooler Master's M4sterBox Lite 3.1 when I used it in the same build and I can thoroughly recommend it to those with a tight budget. The PC will need a small amount of power so Corsair's VS450 power is more than enough and costs just \$40. Finally, as I believe every computer should have an SSD, I went for the cheapest 240GB SSD I could find - Silicon Power in the US and Drevo X1 in the UK. Low End Gamer PC - 1080p Gaming Best Gaming Performance (Intel) Intel Core i3 8100 - US\$109.99/UK 99.97 MSI 370-A Pro - US\$118.88/UK 100.49 or... Lowest Price (AMD): AMD Ryzen 3 1300X \$114.99 / UK 117.24 ASRock A320M-DGS - \$49.99 / UK 47.99 Rest: PRICE USA: Memory: Corsair 8GB DDR4 (2 x 4GB) Revenge LPX 3000 MHz - \$ 99.99 Video Card: PNY GeForce GTX 1050 Ti 4GB (\$209.99) Case: Cooler MasterBox MasterBox Lite 3.1 - \$37.99 Power: Corsair VS450 \$39.99 Cooler: Cooler Master Master T Hyper2 (\$16.99) Storage: 3 39.99 Cooler: Cooler Master Hyper T2 (\$16.99) Storage: 39.99 Cooler: Cooler Master Hyper T2 (\$16.99) Storage: 39.99 250GB Silicon Power 240GB SSD \$62.99 Total: Intel System: US \$696.81 - System: AMD: US \$632.92 UK Price: Memory: Corsair 8GB DDR4 (2 x 4GB) Revenge LPX 3000 MHz - 98.99 Euro Graphic Card: Sotak GeForce GTX 1050 Ti 4GB Mini - 177 GBP Case: Cooler MasterBox Lite 3.1 - 37.99 pounds Power: Corsair VS450 32.61 Storage: Drevo X1 240GB SSD - 58.89 GBP Total: Intel Systems: UK 670.68 AMD Systems : UK 570.71 Summary System: There are choices that must be made depending on your needs between the AMD and Intel processor needs here, so both are good Price. The Intel processor offers a little more performance in some games, but the Intel system is more expensive thanks to the motherboards that require a premium. The AMD processor I chose, the Ryzen 3 1300X has four cores like its Intel counterpart and thanks to cheaper motherboards, the AMD system is almost \$70 cheaper. The AMD system is the best for price wise, but you can consider another system if you want maximum performance in games. Graphic maps are ridiculously expensive at the moment thanks to cryptocurrency miners snapping them, and that means the GTX 1050 Ti is a little more expensive too. However, it can be around \$200 and is a great card for 1080p games. If you can afford a little more, I highly recommend the hard drive bags too so you can make room on the SSD. Mid-Range Gamer - 1080p and 1440p High Frame Game Frequency Phanteks Eclipse P300 Case Phanteks US Price: Processor: Intel Core i3-8350K - \$169 Motherboard: MSI 370-A Pro - \$118.88 Video: EVGAForce Ge GTX 1060 Gaming 6GBX 6GB 6GB 6GB 2.0 - \$380.99 Memory: Corsair 8GB DDR4 (2 x 4GB) Revenge LPX 3000MHz - \$99.99 Storage: Decisive MX300 525GB M.2 SSD - \$149.98 Case: Phanteks Eclipse P300 - \$59.99 - Cooler Master Hyper 212 - \$25.25 Power Source: Corsair CX450 - \$60 Total: 1064.08 UK Price: Processor: Intel Core i3-83 50K 155.62 Euro Motherboard: MSI 370-A Pro - UK 100.49 GBP Video Card: Palit GTX Super JetStream 1060 6GB - 349.95 Memory: Corsair 8GB DDR4 (2 x 4GB) Revenge LPX 3000 MHz - 98.99 Euros Storage: Decisive MX300 52 5GB M.2 SSD - No 128 Case : Phanteks Eclipse P300 - 55.99 POUNDS Cooling: Cooler Master Hyper 212 - 24.58 euros Power : Corsair CX450M - 47.99 GBP Total: Summary System: This is Where We Kick Things Up Gear, as far as game prowess goes, as the GeForce GTX 1060 6GB is for high frame rates of 1080p games and can even handle most games at 2560 x 1400 and with high-detail settings too. For around \$1000 you should consider a minimum of 8GB of memory. I usually recommend 16GB but like graphics cards, memory prices have risen too and the 16GB set will set you back another \$100 for a little increase. Getting more SSD space is key if you're a sharp gamer so the 525GB Crucial M300 SSD is ideal and with the M.2 version costing just \$2 more, now it's time to put that M.2 slot for good use and reduce the number of cables in your computer too. I also chose the Phanteks' Eclipse P300 event, which I've had hands-on since this month - I think it looks great and has plenty of room to expand. Meanwhile, the Intel Core i3-8350K is a great processor in stock speed and even better when accelerating and perfect for the mid-range gaming PC. High End Gamer - 1440P, и 4K ирп ЦИА Цена: процессор: Intel Core i5-8600K - \$ 289 Материнская плата: Gigabyte No 370 Aorus Ultra Gaming - \$ 169.99 Графика карты: MSI GeForce GTX 1070 Armor 8G OC - \$ 683.99 или Zotak GeForce GTX 1080 1080 Mini 11GB - \$1079.97 Memory: Corsair 16GB DDR4 (2 x 8GB) Revenge LPX 3000 MHz - \$204.99 Storage: Decisive MX300 525GB M.2 SSD - \$149.98, WD Blue 1TB Hard Drive - \$49 Case: N'XT S340 - \$69.99 Cooling: Arctic Liquid Freezer 120 - \$68.49 Power: Corsair CX550 - \$54.99 Total: \$1590.45 (GTX 1070 option) or \$1986.42 (gTX 1080 Ti option) UK Price: CPU: Intel Core i5-8600K - 239 euros Motherboard : Gigabyte No370 Aorus Ultra Gaming - 153.56 Euro Video Card: MSI GeForce GTX 1070 Armor 8G OC - 629.99 euros or zotak GeForce GTX 1080 Ti Mini 11GB - 8 euros 39.99 Memory: Corsair 16GB DDR4 (2 x 8GB) Revenge LPX 3000 MHz - 188 Storage: Decisive MX300 525GB M.2 SSD - 128.37 euros, WD Blue 1TB Hard Drive - 37.49 Euros Case: N'XT S340 - 60.72 euros Cooling : Arctic Liquid Freezer 120 - 60.72 Euros Power : Corsair CX550M - 54.76 euros Total: 1424.24 euros (GTX 1070 option) or 1634.24 euros (GTX 1080 Ti option) Summary system: For a serious gaming system, disassembled with the latest tiles at high frame rates and detail, you should look at the GTX 1070 for up to 1440p-based resolutions or gTX 1080 Ti for 4K games, so I've included the option of both here. I also chose the Intel Core i5-8600K, which will give some extra grunt to games that prefer a lot of processor cores, but the processor is also one of the fastest out there in general for gaming too and very much breaking up. If you want to save some money, you might consider the Core i3-8350K as it is still a great processor for gaming, even in a high-end system. Other boosts here compared to cheaper PCs include 16GB of RAM, 500GB of SSD and an all-in-one liquid cooler. Mini Gamer - High Performance Compact Mini ITX Gaming PC Phanteks Shift Case Phanteks US Price: Processor: Intel Core i5-8600K - \$289 Motherboard: Gigabyte No 370N-WiFi - \$139.99 Graphics Card: Sotak GeForce GTX 1060 Mini 6GB - \$469.99 Memory: Memory: Corsair 16GB DDR4 (2 x 8GB) Revenge LPX 3000 MHz - \$204.99 Storage: Crucial MX300 525GB M.2 SSD Case: Phanteks Shift - \$106.99 Cooling: Corsair Hydro Series H75 - \$84.26 Power : SilverStone 450W SFX - \$93.99 Total \$1,438.21 UK Price: Processor: Intel Core i5-8600K - 239 Euros Motherboard: Gigabyte No 370N-WiFi - \$139.99 Video: GeForce GTX 1060 Mini GB 6 - 328.23 Euro Memory: zotak GeForce GTX 1060 Mini GB 6 - 328.23 Euro Memory: zotak GeForce GTX 1060 Mini GB 6 - 328.23 Euro Memory: Corsair 16GB DDR4 (2 x 2 8GB) Revenge LPX 3000 MHz - No 188 Storage: Decisive MX300 525GB M.2 SSD - 128.37 Euros Case: Phksante EVOLV Shift - 109.44 Cooling: Corsair Hydro Series H75 - 70.61 Euro Energy Supply : SilverStone 450W SFX - 59.40 euros Total 1263.04 Euro Summary System : This build is all about keeping things elegant and small, and there is no better way to do it than with Phantek's Evolv Shift. It's a bit high, but it has a tiny footprint and with aluminum and glass panels it's it's amazing too. I chose the mini version of the GeForce GTX 1060 6GB, so there's a lot of poking in the games, even if the cards cost a lot more at the moment than they did a few months ago. If you opt for a liquid cooler as I have, there is no room left for the hard drive, so I'm stuck with a 500GB SSD. There are mini ITX cases out there that offer more storage space such as the Fractal Design Nano S, but if you absolutely have to have a hard drive, you can opt for a low profile air cooler rather than such as the NH-L9x65 Noctua Also remember that the case requires an SFX-sized PSU - you won't be able to use the old ATX one. Content Creator - Powerful video editing, 3D rendering or streaming oriented high performance PC SilverStone PM01 RGB case SilverStone US Price: processor: AMD Ryzen Threadripper 1950X - \$879.99 Motherboard: Asus ROG Strix X399-E Gaming - \$349.84 Video card: EVGA GeX GT 1060 Gaming 6GB ACX 2.0 - \$380.99 Memory: Corsair 16GB DDR4 (2 x 8GB) Revenge LPX 3000 MHz - \$204.99 Storage: Samsung 960 Evo 500GB M.2 SSD - \$199.99, WD Red 4TB hard drive - \$174.99 Case: SilverStone PM01-RGB - \$156.99 Cooling: Enermax Liqtech TR4 240mm - \$129.99 Power: Corsair CX 750W - \$79.99 Total \$2,357.77 UK Price: Processor: AMD Ryzen Threadripper 1950X - 777 Pound 97 Motherboard: Asus ROG Strix X399-E Gaming - 355.25 Euros Video Card: Palit GTX Super JetStream 1060 6GB - 349.95 euros Memory: Corsair 1060 6GB - 349.95 euro Memory: Corsair 16GB DDR4 (2 x 8GB) Revenge LPX 3000 MHz - 188 storage : Samsung 960 Evo 500 GB M.2 SSD - 193.99 euros, WD Red 4TB Hard Drive - 109.57 Euros Case: SilverStone PM01-RGB - 134.52 euros Cool : Enermax Liqtech TR4 240mm - 94.17 Euros Power: Corsair CX 750W - 80.98 euros Total 1740.96 Summary System: If you are serious about creating video, video, editing photos rendering or streaming, then you want a powerful processor, lots of memory and super-fast storage and that's exactly what I went for with the PC Creator content. There's a monstrous AMD Threadripper 1950X 16-core processor that has liquid cooling, plus 500GB of PCI-E SSD storage all placed in the cool running SilverStone PM01 case, which has excellent air cooling to combat these lengthy editing or rendering sessions. I haven't gone all the way to the graphics cards here for the simple reason they're so expensive at the moment, but the GTX 1060 is enough to offer GPU accelerated applications some extra performance, and provide some grunt for sneaky gaming sessions. That's all for this month. Feel free to reach out here on Forbes or on social media with any questions about any of the builds. I'll be back as soon as AMD has launched its new processors with a new buyer guide. Guide.

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