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Dell optiplex 9020 i7 tower specs

Coming in mini-tower, small form factor, and ultra-small form factors, the Optiplex 9020 by Dell is an excellent choice when space is at a premium. The Dell Optiplex 9020 features your choice of Intel Core i5 or i7 processors running at speeds between 3.0GHz and 3.3GHz, 4GB of DDR3 RAM, 250GB of storage space, Gigabit Ethernet, and an optical drive. Additional features of the Dell Optiplex 9020 include front and back USB ports and audio input/output jacks. Available either new or refurbished, all units come with our standard 90-day warranty for the ultimate in confidence. Processor manufacturer * Intel Processor generation 4th gen Intel® Core™ i7 Processor model * i7-4790 Processor family * Intel® Core™ i7 Processor boost frequency 4 GHz Processor frequency * 3.6 GHz Processor socket LGA 1150 (Socket H3) Processor cache type Smart Cache Processor lithography 22 nm Processor operating modes 32-bit, 64-bit Processor series Intel Core i7-4700 Desktop series Processor codename Haswell Thermal Design Power (TDP) 84 W PCI Express slots version 3.0 Maximum number of PCI Express lanes 16 PCI Express configurations 1x16,2x8,1x8+2x4 Number of processors installed 1 Maximum internal memory supported by processor 32 GB Memory types supported by processor DDR3-SDRAM Memory clock speeds supported by processor 1333,1600 MHz Memory bandwidth supported by processor (max) 25.6 GB/s ECC supported by processor Internal memory type DDR3-SDRAM Maximum internal memory * 32 GB Memory clock speed 1600 MHz Memory channels Dual-channel Total storage capacity * 1000 GB Optical drive type * DVD±RW Number of storage drives installed 1 Number of HDDs installed 1 Discrete graphics card model * AMD Radeon R7 250 Number of discrete graphics cards 1 On-board graphics card family Intel® HD Graphics On-board graphics card model * Intel® HD Graphics 4600 On-board graphics card base frequency 350 MHz On-board graphics card dynamic frequency (max) 1200 MHz Maximum on-board graphics card memory 1.024 GB Number of displays supported (on-board graphics) 3 On-board graphics card DirectX version 11.1 On-board graphics card ID 0x412 Ethernet LAN data rates 10,100,1000 Mbit/s Cabling technology 10/100/1000Base-T(X) USB 2.0 ports quantity * 6 USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * 4 VGA (D-Sub) ports quantity 1 Ethernet LAN (RJ-45) ports 1 Chassis type * Mini Tower Placement supported Vertical Motherboard chipset Intel® Q87 Compatible processor series Intel® Core™ i3, Intel® Core™ i5, Intel® Core™ i7 Operating system installed * Windows 7 Professional Image not available forColor: To view this video download Flash Player When it comes to shopping for a new laptop, spring is one of the best times of the year to find a deal outside of Black Friday. With 2022 laptops just starting to roll out, you'll still see a lot of 2021 models while hunting for your next laptop -- and chances are you can get one at a discount. Plus, there are sales for Mother's Day and Father's Day, Memorial Day and students both graduating and going back to school. At CNET, our laptop and computer experts have spent collective decades testing and reviewing laptops, covering everything from performance to price to battery life. This hand-curated list covers the best laptops across various sizes, styles and costs, including laptop computers running on Windows, MacOS and Chrome. (Microsoft released the full version of its Windows 11 operating system in October; all of the Windows laptops on this list should fully support that new OS.)If you want more laptop brands and options for a particular category, we also have specialized lists you can look at, including the best gaming laptops, best 15-inch laptops, best two-in-ones and best Chromebooks, as well as the best laptops for college students, designers and the best MacBook Pro alternatives. If you need to stay as low as possible on the price of a new laptop computer, check out our best budget laptop and best budget gaming laptop picks. This best laptop list is updated periodically with new models we've tested and reviewed. It's a great place to get an idea of what's available. If you need advice on whether a particular type of laptop or two-in-one is right for you, jump to our laptop FAQ at the bottom of the list. Dan Ackerman/CNET This is our go-to recommendation for those in search of a MacOS laptop for basic everyday use. The MacBook Air was updated in November 2020 with Apple's homegrown M1 processors, replacing Intel's CPUs. The M1 delivers better performance and longer battery life -- up to 18 hours. The Air was one of the first Apple computers to be switched to the M1 chips. Since then, Apple's been busy updating its other laptops and desktops with them, leaving the Air unchanged. A new Air is expected sometime this year, but right now the rumors haven't pinned down a date. Read our MacBook Air M1 review. Sarah Tew/CNET Co-engineered with Intel for its Evo platform, the Spectre x360 14 we tested had zippy performance and more than 14 hours of battery life. Along with an assortment of privacy features, this HP laptop has a bright, 1,920x1,280-pixel-resolution, 13.5-inch touchscreen with a 3:2 screen ratio that is roughly the same as a standard A4 sheet of paper and gives you about 20% more vertical viewing space than a 16:9 display. That means you do less scrolling when you're working. It also makes it more comfortable to use as a tablet, especially with the included active pen. Read our HP Spectre x360 14 review. ED I T O R S ' C H O I C E Mar 2020 Sarah Tew/CNET The Dell XPS 13 is a perennial favorite for its size, weight and performance and just overall good looks. In 2020, Dell made the laptop even smaller, while making the laptop screen larger and increasing performance for both CPU and graphics-intensive tasks. It's not a huge leap, but this Dell XPS is still the best in the category. And for those who want the latest and greatest Intel processors, the Dell XPS 13, as well as the company's XPS 13 2-in-1 (also a great pick), are available with the chipmaker's 11th-gen Core processors, with Intel Core i3, Core i5 and Core i7 options. This Dell also offers a selection of solid-state storage and memory options, starting with a 256GB SSD and 8GB of memory. Read our Dell XPS 13 (2020) review. Josh Goldman/CNET Tired of trying to work on documents or spreadsheets on a small widescreen display? The Acer Chromebook Spin 713 uses one of Acer's bright VertiView displays, a 13.5-inch 2,256x1,504-pixel touchscreen with a 3:2 aspect ratio. As the name implies, it gives you more vertical room to work, but it still has the width of a typical 13.3-inch laptop with a 16:9 ratio. Between that and its battery life, which lasted nearly 13 hours in our tests, you'll be able to get more work done in a day with this Chrome OS laptop -- and it's still thin and light enough for an everyday carry. The latest version of this Chromebook is the first to receive Intel's Evo verification, which means you'll be getting the best possible mobile experience with this model. It's also the first with Thunderbolt 4 support, which lets you connect to multiple external displays as well as providing fast data speeds and networking. Read our Acer Chromebook Spin 713 review. Josh Goldman/CNET HP packed a lot of value into the Aero 13: Eye-pleasing magnesium-aluminum chassis, strong processing performance, long battery life, a bright, colorful display and a weight of just 2 pounds (0.94 kilograms). Amazingly, with all that it offers though, it has a regular starting price of \$800 and currently starts at \$740. Read our HP Pavilion Aero 13 review. Josh Goldman/CNET A remarkable deal for simple tasks like email, word processing and much more, thanks to the new AMD Ryzen 5 and Ryzen 7 processors. This budget laptop has a backlit keyboard, a fingerprint reader and a USB Type-C port, too. The Acer Swift 3 is also an incredibly lightweight laptop -- less than 3 pounds -- for a machine that can be found for less than \$700.In addition to this Acer Swift, we're also fans of the Acer Aspire 5, which has a larger 15.6-inch display. The Acer Aspire 5 is available in a variety of configurations starting as low as \$400, but can go up to \$690 if you want entry-level discrete graphics for basic gaming and content creation. Joshua Goldman/CNET There are simply no other 17-inch laptops that are this light and also have long battery life. The Gram 17 continues to impress year after year. And while other manufacturers are now using similar body materials to make their laptops as light as the Gram, LG is still our top pick at this size. However, if you want something that's a little smaller, LG has an excellent 16-inch laptop as well. Dan Ackerman/CNET New Apple silicon, new display, new design and all the ports we've been asking for: The latest 16-inch Apple MacBook Pro is the best Pro ever. The combination of the larger MacBook Pro's hardware and MacOS extracts the maximum performance from the components while delivering excellent battery life. The new mini-LED high-resolution display is gorgeous. And if an HDMI output and SD card reader were on your shortlist for features, you'll find those here too.You pay for it, though: Base price for the 16-inch model of this premium laptop is \$2,499. Read our Apple MacBook Pro review. Sarah Tew/CNET Though HP and Dell have excellent premium two-in-one convertible laptops, they have smaller 13.5- and 13.4-inch displays. If you want a bit more room for your work or entertainment, the Yoga 9i is a great choice. It's available in 14- and 15.6-inch size options in a variety of configurations and everything about these Lenovo laptops is fast. Well, except for their battery lives, which are good and long. Plus, they come with pens that charge and are stored in the body. Keep an eye out for sales on this one, as the 2022 version with 12th-gen Intel processors is now available. Read our Lenovo Yoga 9i review. Josh Goldman/CNET There are plenty of 15.6-inch laptops, but 16-inch models like the Dell Inspiron 16 Plus are something of a rarity. The 16-inch display is a great size since the laptop is barely bigger than a 15.6-inch model, but you get more room for work and a roomier keyboard and touchpad along with it. For this Inspiron, Dell packed in performance parts including Nvidia discrete graphics (though it's nearly half the price if you go with Intel integrated graphics) and the display covers 100% sRGB and 81% AdobeRGB color gamuts, which is good enough if you're getting started with creating web content. Also, the laptop has a more premium fit and finish than we're used to seeing in the Inspiron line. Read our Dell Inspiron 16 Plus review. Dan Ackerman/CNET Although this Microsoft Surface laptop is not the Surface Laptop, the Surface Pro continues to hit all the right notes if you're looking for a do-it-all Windows tablet that doubles as a Windows laptop. Microsoft recently overhauled it for the Surface Pro 8, which has a larger 13-inch display, 11th-gen Intel Core processors and two Thunderbolt 4 USB-C ports. The Surface Pro 7 is still around for the time being at a discount, and an updated version called the Surface Pro 7 Plus will stay in the lineup, so you'll still be able to get the classic Pro design but with new processors. Read our Surface Pro 8 review. Sarah Tew/CNET Regularly available for less than \$800, this thin, 3-pound convertible is a solid choice for anyone who needs a laptop for office or schoolwork. The all-metal chassis gives it a premium look and feel, and it has a comfortable keyboard and a responsive, smooth precision touchpad. Though it's light on extra features compared to its premium linemate, the Yoga 9i, it does have one of Lenovo's sliding shutters for its webcam that gives you privacy when you want it. And it has a long battery life to boot. Sarah Tew/CNET Dell streamlined its G-series gaming laptops, going from three models down to just one -- and it's all for the best. Instead of having to decode the various feature and quality differences between them, there's just one chassis available with a variety of configurations with up to an 11th-gen Intel processor or AMD Ryzen 5000 H-series processor. Updated versions with 12th-gen Intel processors are available now, too. All of the processors can be paired with up to a 6GB Nvidia RTX 3060, 8GB or 16GB of memory and up to 1TB of storage. They're basically more budget laptop-friendly versions of those from its Alienware division, but still capable of playing the latest AAA games. Due to availability issues, prices are unstable but do normally start below \$1,000. Lori Grunnin/CNET If you're going for the best, go big. Yes, there are faster 17-inchers, but I draw the line at dual homungous power bricks. The Blade Pro is fast and provides powerful gaming performance with an Intel Core i7 processor and Nvidia GeForce RTX 30-series graphics, but doesn't sacrifice its svelte figure. While I recommend getting this Blade Pro laptop with its 4K-resolution display option for creators, gamers will want to get the display with a 360Hz refresh rate that Razer offers for this model. Laptop FAQs Setting a budget is a good place to start when shopping for the best laptop for yourself. The good news is you can get a nice-looking, lightweight laptop with excellent battery life at prices under \$500. If you're shopping for a laptop around \$500 or less, check out our top picks here, as well as more specific buying advice for that price range.Higher-end components like Intel Core i-series and AMD Ryzen processors and premium design touches like thin-display bezels and aluminum or magnesium bodies have made their way to laptops priced between \$500 and \$1,000. You can also find touchscreens and two-in-one designs that can be used as a tablet or a laptop -- and a couple other positions in between. In this price range, you'll also find faster memory and ssd storage -- and more of it -- to improve performance. Above \$1,000 is where you'll find premium laptops and two-in-ones. If you're looking for the fastest performance, the best battery life, the slimmest, lightest designs and top-notch display quality with an adequate screen size, expect to spend at least \$1,000. Deciding between MacOS and Windows laptop for many people will come down to personal preference and budget. Apple's base model laptop, the M1 MacBook Air, starts at \$999. You can sometimes find it discounted or you can get educational pricing from Apple and other retailers. But, in general, it'll be at least \$1,000 for a new MacBook, and the prices just go up from there. For the money, though, you're getting great hardware top to bottom, inside and out. Apple recently moved to using its own processors, which resulted in across-the-board performance improvements compared to older Intel-based models. But, the company's most powerful laptop, the 16-inch MacBook Pro, still hasn't been updated to Apple silicon. But, again, that great hardware comes at a price. Also, you're limited to just Apple laptops. With Windows and Chromebooks (more on these below), you get an amazing variety of devices at a wide range of prices. Software between the two is plentiful, so unless you need to run something that's only available on one platform or the other, you should be fine to go with either. Gaming is definitely an advantage for a Windows laptop, though.MacOS is also considered to be easier and safer to use than Windows, especially for people who want their computers to get out of the way so they can get things done. Over the years, though, Microsoft has done its best to follow suit and, with Windows 11 here, it's trying to remove any barriers. Also, while Macs might have a reputation for being safer, with the popularity of the iPhone and iPad helping to drive Mac sales, they've become bigger targets for malware. Yes, they are, but they're not for everyone. Google's Chrome OS has come a long way in the past 10 years and Chromebooks -- laptops that run on Chrome OS -- are great for people who do most of their work in a web browser or using mobile apps. They are secure, simple and, more often than not, a bargain. What they can't do is natively run Windows or Mac software. The pandemic changed how and where a lot of people work. The small, ultraportable laptops valued by people who regularly traveled may have suddenly become woefully inadequate for working from home. Or maybe instead of needing long battery life, you'd rather have a bigger display with more graphics power for gaming.If you're going to be working on a laptop and don't need more mobility than moving it from room to room, consider a 15.6-inch laptop or larger. In general, a bigger screen makes life easier for work and is more enjoyable for entertainment, and also is better if you're using it as an extended display with an external monitor. It typically means you're getting more ports, too, so connecting an external display or storage or a keyboard and mouse are easier without requiring a hub or dock. For travel, stay with 13- or 14-inch laptops or two-in-ones. They'll be the lightest and smallest while still delivering excellent battery life. What's nice is that PC-makers are moving away from 16:9 widescreens toward 16:10- or 3:2-ratio displays, which gives you more vertical screen space for work without significantly increasing the footprint. These models usually don't have discrete graphics or powerful processors, though that's not always the case. You can play games and create content on any laptop. That said, what games you play and what content you create -- and the speed at which you do them -- is going vary greatly depending on the components inside the laptop. For casual browser-based games or using streaming-game services like Google Stadia, Nvidia GeForce Now and Xbox Cloud Gaming, you don't need a powerful gaming laptop. And similarly, if you're just trimming video clips, cropping photos or live-streaming video from your webcam, you can get by with a modestly priced laptop or Chromebook with integrated graphics. For anything more demanding, you'll need to invest more money for discrete graphics like Nvidia's RTX 30-series GPUs. Increased system memory of 16GB or more, having a speedy SSD for storage and a faster processor such as an Intel Core i7 or AMD Ryzen 7 will all help you get things moving faster, too. The other piece you'll want to consider is the display. For gaming, look for screens with a high refresh rate of 120Hz or faster so games look smoother while playing. For content creation, look for displays that cover 100% sRGB color space. More for people who spend all day on their computers

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