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Join our newsletter All the best features, news, tips and great deals to help you live a better life through technology Thank you for signing up to T3. You will receive a verification email shortly. There was a problem. Please refresh the page and try again. By submitting your information you agree to the Terms & Conditions (opens in new tab) and Privacy Policy (opens in new tab) and are aged 16 or over. Sony Xperia M2 dealsImage 1 of 6Sony Xperia M2 review Sony Xperia M2 review Sony Xperia M2 review Sony Xperia M2 review Sony Xperia M2 review Sony Xperia M2 review If you're looking for an affordable version of the Sony Xperia Z2, Sony has you covered. Check out our Sony Xperia M2 hands-on reviewThe Sony Xperia M2 joins the Sony Xperia Z2 as the smartphone line-up for Sony at MWC 2014. It comes with a smaller screen than it's bigger brother at 4.8-inch but manages to beat screen estate on the Sony Xperia Z1 Compact coming in at 4.3-inch. What else does the Xperia M2 offer? T3 went hands-on to find out more. Article continues after the video.Sony Xperia M2: Size and BuildFrom the off, you'd be forgiven for mistaking the Xperia M2 for the Xperia Z2 as they look almost identical. Both feature the signature Sony design of a glass back and aluminium sides and the iconic Sony on/off button. Physical buttons are kept to a minimum with only a volume rocker and a shutter button on the sides. Vital stats are 139.6 x 71.1 x 8.6mm and according to Sony, those make it the slimmest 4G smartphone to date. Compared to the likes of the HTC One Mini and the Samsung Galaxy S4 Mini, the design of the Xperia M2 is premium, there's no plastic and it feels solid and reassuringly weighty.Sony Xperia M2: FeaturesNestled inside the M2 is a Qualcomm Snapdragon 400 processor with 1.2GHz quad core CPU making it a breeze to whizz through menus or apps thanks to the So,what makes the M2 mid-range? It's the camera. At 6MP it's a much smaller sensor than the Z2 at 20.7MP. There's no 4K and there are less features within the camera. Slo-mo and background de-focus are a no-go. Having said that, it's a decent enough camera and can certainly compete with it's mid-range competitors. As with the Galaxy S4 Mini the OS of choice is Android 4.3 Jellybean so don't expect any KitKat action any time soon.Sony Xperia M2: ScreenAt 4.8-inches the screen on the Xperia M2 isn't small but don't expect the same tech as on the Z2. At 540 x 960 pixel resolution it's not the sharpest of screens and side-by-side with it's high-end brother the difference is certainly noticeable.On to the battery and it's quoted at up to 14 hours talk time and 8 hours video playback thanks to the 2300mAh unit inside. Of course, we'll check this with the full review but on paper it looks pretty impressive and one of the stand-out features on the Xperia M2.Sony Xperia M2: VerdictFirst impressions of the Sony Xperia M2 are positive. Sony has managed to create a mid-range phone that maintains a premium feel. It's old Android and the camera has a low pixel count but you still get a quad core processor and a great battery. On paper it looks good but the killer blow will come when Sony announce a price. Once that's out we'll have a full verdict and decide if the Xperia M2 can truly compete with the likes of the HTC One Mini and the Samsung Galaxy S4Sony Xperia M2 release date: April 2014 Sony Xperia M2 price: TBCPrices - Sony Xperia M2:▼ There's no way in hell this ad lasts long. Ever since the BMW M2 went into production and deliveries began I've been waiting to find one listed for sale on Craigslist. I knew it would take a while but I held out hope, especially after seeing how many people flipped the Tesla Model X a mere month and change after the first one rolled off the production line. All that waiting has finally paid off as a Long Beach Blue Metallic M2 with a hair under 1,000 miles has just been listed for sale on Craigslist in Washington DC. Dreams do come true. According to the ad the current owner is one of the first people in the DC area to take delivery of an M2, which happened back in April. Unfortunately the seller is moving to Boston and must sell the Bimmer. You can decide for yourself whether that excuse is legit or not (it's totally not). The seller will consider "any offers more than \$65k" due to the optional extras. One of those is the Executive Package (\$1,250), which consists of a rear view camera with distance control, heated steering wheel, automatic high beams, speed limit info and active driving assistant. The BMW Wheels/Tire package (\$2,000) and six year/100,000 warranty (\$4,000) are also noted in the ad. While we're counting that Long Beach Metallic paint job is an additional \$550. The M2 has a base MSRP of \$51,700 and all those extras come in at \$7,800, which makes for a grand total of \$59,500. Assuming this seller gets just \$65,000 for the M2 that's not a massive profit. But we highly doubt it'll sell for that low. It's in great condition (how could it not be?) and the majority of people who want this car right now aren't high enough on the wait list to get it, not to mention those who aren't on the list at all. This person has to be counting on a bidding war to break out, which will happen. That's fine by us. We've said many times before that small scale flips like this actually help gearheads out as it lets them pay a little extra cash to cut the line, something most would gladly do if companies like BMW gave them the chance. We assume the person who ends up buying this car will actually drive it as there's no real chance the M2 will be a solid financial investment. Hopefully the next owner realizes that a turbocharged 3.0-liter inline-six sending 365 horsepower to the rear wheels is something worth working your life around. Yeah, it snows in Boston and parking sucks but guess what: The city has garages that let you both keep your car safe from the elements and the dangers of the street. Besides, doesn't a 440-mile road trip in the M2 from DC to Boston sound awesome? Apple in June 2022 unveiled the M2, its next-generation Apple silicon chip that follows the M1 chip. This guide highlights everything you need to know about the M2 chip, from performance improvements to extra features. M2 Chip Explained The M2 is Apple's next-generation System on a Chip (SoC) developed for use in Macs and iPads. It marks Apple's continued work to transition away from the Intel chips that were used in Macs up until 2020. As a "System on a Chip," the M2 integrates several different components, including the CPU, GPU, unified memory architecture (RAM), Neural Engine, Secure Enclave, SSD controller, image signal processor, encode/decode engines, Thunderbolt controller with USB 4 support, and more, all of which power the different features in the Mac. Before Apple silicon, Macs used multiple chips for CPU, I/O, and security, but Apple's effort to integrate these chips is the reason why the M2 is much faster and more efficient than Intel chips. The unified memory architecture that Apple has included is also a major factor because all of the technologies in the M2 are able to access the same data without having to swap between multiple pools of memory. Built into the M2 chip, the unified memory architecture means the CPU, GPU, and other processor components don't need to copy data between one another, and are able to access the same data pool. This memory architecture means that the RAM is not user upgradeable, which isn't too much of a surprise because few Macs have user-accessible RAM. M2 Macs max out at 24GB RAM, but even the base 8GB is enough for everyday tasks. CPU, GPU, and Neural Engine Like the M1, the M2 includes an 8-core CPU, but it supports nine or 10 GPU cores, up from seven or eight in the prior-generation M1. There are four high-performance cores and four high-efficiency cores. The high-performance cores are designed to offer the best performance for power-intensive single-threaded tasks, with all eight cores able to work together for impressive multi-threaded performance. For tasks that are less intensive and don't require the same power, such as web browsing, there are four high-efficiency cores that use a tenth of the power to preserve battery life. Apple says that the M2 chip is built using next-generation 5-nanometer technology, with better performance per watt. It includes 20 billion transistors, 25 percent more than the M1, adding more memory bandwidth at 100GB/s. The M2 chip is 1.4x faster than the M1, with an 18 percent faster CPU, a 35 percent more powerful GPU, and a 40 percent faster Neural Engine. Geekbench benchmarks have confirmed that the M2 chip is up to 20 percent faster than the M1 chip when it comes to multi-core performance. The M2, which runs at 3.49GHz compared to 3.2GHz for the M1, earned a single-core score of 1919, which is roughly 12 percent faster than the 1707 single-core score of the M1 MacBook Air. The M2 earned a multi-core score of 8928, up about 20 percent from the 7419 score of the M1 model. As for the Metal benchmark, the M2 chip scored 30627, a notable improvement over the 21001 score earned by the M1. The M2 chip offers up to a 10-core GPU, compared to the 8-core maximum of the M1. Battery Life Apple silicon chips are incredibly battery efficient in addition to being faster than most Intel chips. With the M2 chip, the battery in the MacBook Air lasts for up to 18 hours, while the battery in the 13-inch MacBook Pro lasts for up to 20 hours. Even with the incredible speed improvements that the M2 chip brings, it is also more battery-efficient than any other Mac chip Apple has released to date. Battery life in an M2 Mac lasts up to 2x longer than in prior-generation Intel Macs. The Mac with the longest battery life is the 13-inch MacBook Pro, which lasts for up to 20 hours. That's double the battery life of the last Intel-based model. Macs With M2 Chip The M2 chip is used in the 2022 MacBook Air and the 2022 13-inch MacBook Pro. M2 Security Features Intel Macs had a built-in T2 chip that handled security and other features on the Macs, but with the M1 and M2 chips, that functionality is built right in and a secondary chip isn't required. The M2 has a built-in Secure Enclave that manages Touch ID and a storage controller with AES encryption hardware for SSD performance that's faster and more secure. Running Apps on M2 Macs Because the M2 chip is using different architecture, Apple has built tools to allow developers to create Universal app binaries that run flawlessly on both Apple silicon and Intel chips, plus it has developed the Rosetta 2 translation layer that allows x86 apps to run on the M1 chip. Rosetta 2 is a reimagining of Rosetta, the feature that allowed PowerPC apps to run on Intel-based Macs back in 2006 when Apple swapped to Intel from PowerPC. With Rosetta 2, apps designed for Intel machines will continue to run on M1/M2 Macs with some limited performance compromises. For the most part, apps run similarly on both Intel and M1/M2 Macs due to the performance improvements. Everything should function as normal when transitioning to M1 and M2 Macs, and over the course of a few years, most popular Mac apps will likely be built to run on the M2 Macs natively. Right now, there is one major compromise when choosing an M2 Mac, and that's Windows support. There is no Boot Camp for M2 Macs and M2 Macs are not officially able to run Windows. Official support could come in the future, but it largely depends on Microsoft licensing its Arm-based version of Windows to consumers, and so far, that hasn't happened. M2 Macs can run iPhone and iPad apps as well as Mac apps, so long as app developers make them available on the Mac. Apple Silicon Mac How Tos Since the Apple silicon Macs are using a new type of chip designed by Apple, there are some tips and tricks for doing things like transferring files, entering recovery mode, and finding apps optimized for the new machines. We have several Apple silicon-specific how tos that are worth checking out. M2 Pro and Pro Max Following the M1 chip, Apple eventually introduced the M1 Pro, M1 Max, and M1 Ultra, and the same will happen with the M2 chip. Apple is working on the M2 Pro and the M2 Max, chips that could come out as soon as this year. The M2 Max chip is expected to feature a 12-core CPU, up from the 10-core CPU in the M1 Max, and it will also include up to a 38-core GPU. The M1 Max features a 32-core GPU, so the M2 Max will see some notable performance improvements. Guide Feedback Have questions about the M2 chip, know of a feature we left out, or want to offer feedback on this guide? Send us an email here.

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