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just as powerful. It has the same processing speed in a slimline package. Unlike the Pi B, it only features 1 USB port and no Ethernet port. ReleasedUSB PortsCPURAMBluetoothWiFiNov 20141x USB700 MHz512MBNoNo Raspberry Pi 2 What's better than one Raspberry Pi? Two! This is the Raspberry Pi 2, a wonderful successor to the original Raspberry Pi. It comes with 4 USB ports and more CPU power than before, clocking in at 900 MHz. ReleasedUSB PortsCPURAMBluetoothWiFiFeb 20154x USB900 MHz1GBNoNo Raspberry Pi Zero Raspberry Pi meets shrink ray with this super teeny model known as the Raspberry Pi Zero. This super slim model comes with a few upgraded features. The CPU on this edition can reach speeds up to 1GHz. The USB ports have been dropped in favor of a Micro USB port and Micro OTG port. ReleasedUSB PortsCPURAMBluetoothWiFiNov 20151x Micro USB1 GHz512MBNoNo Raspberry Pi Zero W The Pi Zero was seriously upgraded with the release of the Raspberry Pi Zero W. This tiny computer is packed with a micro USB port, a micro OTG port, and a 1 GHz processor like the Pi Zero. But the team took their efforts a step further by including both Bluetooth and Wireless capabilities—making it perfect for small, mobile projects. ReleasedUSB PortsCPURAMBluetoothWiFiFeb 20171x Micro USB1 GHz512MB4.1Yes Raspberry Pi 3 Model B The Pi reached new heights with the release of the Raspberry Pi 3. This model is just a little bit faster and a lot more versatile. Long gone are the days of isolation, these Pi's are open to multiple wireless channels including both WiFi and Bluetooth. ReleasedUSB PortsCPURAMBluetoothWiFiFeb 20164x USB1.2 GHz1GB4.1 LEYes Raspberry Pi 3 B+ The Raspberry Pi 3 B+ is an excellent edition to the lineup of modern Pis. It's my go-to board for most projects and it's no wonder why! This board comes with a 1.4 GHz processor, Bluetooth, WiFi, 4 USB ports, and a reputation to back it up! ReleasedUSB PortsCPURAMBluetoothWiFiMar 20184x USB 2.01.4 GHz1GB4.2, BLEYes Raspberry Pi 3 A+ The Raspberry Pi 3 A+ is a slimmed-down edition of the B+. It has the same processor as the B+, reaching speeds up to 1.4 GHz. In lieu of 4 USB ports, the Pi 3 A+ has only 1 USB port. In keeping with the recent Pi models, it comes with both Bluetooth and WiFi capabilities. ReleasedUSB PortsCPURAMBluetoothWiFiNov 20181x USB 2.01.4 GHz1GB4.2, BLEYes The Raspberry Pi 4. Raspberry Pi 4 The Raspberry Pi 4 really packs a punch compared to its predecessors. You can choose from one of three RAM upgrades, there are four USB ports, and it comes with the most powerful CPU yet. The Pi 4 is quickly taking the stage as developers create software to take advantage of all of the new features. ReleasedUSB PortsCPURAMBluetoothWiFiJune 20192x USB 3.0, 2x USB 2.01.5GHz1GB, 2GB, or 4GB5.0, BLEYes Raspberry Pi Foundation The Raspberry Pi 400 is an all-in-one keyboard containing a Raspberry Pi 4. It features mostly the same specs as the Pi 4, except the internal board is a different form factor. The CPU also has a higher clock speed of 1.8GHz vs. the 1.5GHz that the Pi 4 has. Check out our Raspberry Pi 400 review video to learn more! ReleasedUSB PortsCPURAMBluetoothWiFiOctober 20202x USB 3.0, 1x USB 2.01.8GHz4GB5.0, BLEYes The Raspberry Pi Compute Module has gone through several iterations; it lacks the normal interface ports and functionality of a normal Pi, and is meant more for business and scientific users. I won't cover the versioning of this one in great detail but you can read more about the Compute Module on the Raspberry Pi website. Raspberry Pi Foundation This is the Raspberry Pi Foundation's first official microcontroller. It uses a custom chip made by the team known as the RP2040. It's the smallest board yet and one of the most flexible. ReleasedUSB PortsCPURAMBluetoothWiFiRaspberry Pi PicoJanuary 2021USB C133MHz264KBNo Finding the best Raspberry Pi for your project depends on your project needs. Consider factors like size, mobility, and necessity of each hardware component. In general, you'll find the newer models have more power and features that open your Raspberry Pi projects to a myriad of potential. For example, the Pi Zero is suited for small projects. We were able to fit the Pi Zero inside an old NES controller just to run RetroPie! But the Pi 3 B+ is great for things like setting up a Raspberry Pi media server or Pi powered MIDI synthesizer. If you want the latest and greatest—you may want to snag a Pi 4 to see what it's capable of while the Pico is an excellent choice for anyone who needs a low-power unit for simple control processing. Looking for new Pi project ideas? Check out our list of Raspberry Pi projects to get started. NEXT UP A whole world trapped inside your Pi. howchoo (467) Continue Reading