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## The hub project

Text Resize A Print Share Our Office supports projects that will greatly improve the way the department delivers its mission. Learn more about projects supported by our internal innovation programmes. Content created by the content of the Chief Technology Officer (CTO), last reviewed on October 17, 2018 Our editors independently investigate, test and recommend the best products; You can learn more about our review process here. We may receive commissions for purchases made from our chosen links. The best smart hubs make it easier to control your favorite smart home products. Smart hubs use protocols like Zigbee, Z-Wave, Wi-Fi, Bluetooth, and Thread to communicate with smart devices, and they serve as a kind of centralized network for your smart lights and other connected products. This makes it easy to create automation commands. For example, you can automatically have your lights go off when your smart blinds open, or you may have a door lock when you set your alarm. Without a hub, you'll need to use each device's assistive application to control devices individually, but devices can't seamlessly interact with each other to get improved home automation. However, smart home products have come a long way in recent years and therefore have smart home assistants like Google Assistant, Alexa, and Apple HomeKit. Alexa and Google Assistant are able to create routines and basically serve as central hubs. Therefore, choosing a smart speaker is an alternative way to control smart home devices from one central location. We've evaluated several smart home centers, and our pick for the best center is the 4th generation Amazon Echo (view of Amazon). In addition to its clever design and extraordinary sound, echo has Zigbee built as well as temperature sensor temperature related commands and routines. We've also included our picks for the best centers in other categories such as the best budget smart home hub and best center compatibility. What we like extraordinary sound quality AZ1 processor Built-in Zigbee hub and temperature sensor What we don't like Less microphones for voice recognition than the previous model Latest Amazon Echo (4th generation leading smart speaker) comes standard with seamless protocol that allows it to function like a true smart hub. Zigbee. Echo Plus Zigbee support allows it to directly and seamlessly control devices such as smart thermostats and smart light bulbs, making it a widely compatible and user-friendly smart hub choice. By combining the functionality of the previous Echo and Echo Plus, you no longer need to purchase separate devices; all you need to start building your own integrated smart home inside this brand new Echo. The aesthetic design is also brand new, as well as a number of performance improvements. The most striking thing is that Echo has ditched the cylindrical look of previous generations and is now a very sleek looking (and kind of adorable) area. It is a visual innovation, but also improves the quality of the sound. Choose between three different neutral colors: charcoal, glacier white, and twilight blue. It looks a bit more premium, blends with all sorts of décor, and features that signature gradient light ring, which is now at the bottom of the unit gently illuminates the surface in dim light. Alexa functionality is also better than ever, which means you'll be able to ask questions, check the weather, and a whole lot more (Amazon has created an Alexa library that has over 50,000 skills strong). But the real standout feature here, in our eyes, is the speaker setup. Echo has a 3-inch neodium woofer and dual 0.8-inch tweeters, which means it's an additional tweeter compared to its predecessor. In her review, Erika invites outstanding Dolby speakers and Echo's ability to adjust the sound output to the shape and contour of the room. Worth the investment, the new Echo looks better, sounds better, and it works better in almost every category. - Erika Rawes, Product Tester What we like Adaptive intelligent WiFi network Expandable coverage can eliminate dead zones Very easy to create What we do not like No built-in speaker or microphone If you own a Samsung device or some of the many SmartThings compatible smart devices on the market, a good smart hub router to invest in your home is Samsung SmartThings Wi-Fi + Hub. This small router/hub is less than five inches, so it takes up a lot of space. But it offers great functionality, allowing you to connect compatible smart devices in one place and allowing you to control these devices using the SmartThings app for iOS or Android devices. One Samsung SmartThings Wi-Fi + Hub for your apartment or home will occupy up to 1,500 square feet, but if you want to have 4,500 square feet of coverage, you can buy three and connect them together. SmartThings Wi-Fi + Hub is praised for covering large houses with wireless signals and providing fast speeds for many devices. What we like great music Excellent bass Multilingual Google Assistant What we don't like Google Home Max combines great smarts with great sound. Packed inside its streamlined profile are a pair of 4.5-inch woofers and dual 0.7-inch custom tweeters. Combine your hardware with Smart Sound audio tuning and get optimal audio quality in any room. When you crank up the volume, Home Max really shines, providing a high, undistorted volume with booming bass. In addition to its extraordinary music playback, Google Home Max is a simple installation process. Just plug in your speaker, open the Google Home app, and it'll help you get your speaker started. Just say, Hey, to play music, control different smart home devices, or get a response to any search request. Six remote-trained microphones will raise your voice from almost anywhere in the room, even if you play music. Home Max is also able to recognize different voices, synchronizing music between rooms, and playing music from many streaming services. What we like Big screen Fantastic audio quality Beautiful design What we don't like Limited adjustments display angle Lenovo also introduced a contestant to the digital assistant hub market. On the 10-inch smart display, google Assistant is built-in, ready and available for all your needs. Want to check on the day of your meeting, watch a YouTube video, or control a compatible smart thermostat? The Lenovo smart display is fully voice-controlled so you can perform all of these handsfree functions. Treat it as a home hub by commanding it to turn smart lights on or off, adjust thermostats, or display streams from smart home cameras. Although it doesn't have the strongest speakers, the 10 watt driver delivers crisp, clean sound that plays a good 1920x1200 screen resolution for entertainment. In addition, Google Cast lets it act as a TV, and you can run compatible apps like YouTube, Spotify or Netflix. With a white body and bamboo back, the Lenovo Smart Display easily blends into any décor exquisite addition to any room in the house. The 1.8 GHz Qualcomm Snapdragon 624 processor is more than enough for everyday use, but it should be seen as a device to make your life easier rather than store apps. What we like Sleek, attractive design Big screen and strong sound Useful camera perks What we don't like Google Nest Hub Max is interactive and easy to use, with a 10 inch touch display and front-facing camera. The crisp 1280 x 800 display and distant field microphones make it ideal for video calls with friends and family. The Hub Max socket is equipped with a Google Assistant and allows you to take handsfree control of smart devices from the central hub. Google Assistant also makes it easier to personalize your Start screen with calendars, reminders, photos, and traffic messages in your account. The ambient EQ light sensor adjusts the photos on the screen based on the color and lighting in the room, so the display looks the best in any room at home. Wi-Fi and Bluetooth connectivity allow smart hubs to sync seamlessly with other smart devices in your home, such as smart thermostats, lights, and entertainment systems. This smart hub is also equipped with powerful 0.7-inch stereo speakers equipped with a 3-inch woofer for outstanding sound when listening to melodies, watching YouTube videos or even listening to recipes while you prepare dinner. Attractive Nest Hub Max can sit on almost any flat surface At home. Wall mounting options also available from Amazon. If you can't quite shell out the money for Amazon's new flagship Echo Plus, you can still get the latest technology in a smaller, cheaper package. The latest generation Echo Dot gives you a pretty solid amount of features without breaking the bank, and it comes in an absolutely adorable new spherical shape factor, the first Echo line. You end up sacrificing a Zigbee smart home connection and an almost peerless speaker set of the 4th Gen Echo Plus, but it seems like Amazon has continued refining the Dot speaker to give you more oomph and volume. Alexa functionality is present here, too, allowing you to stream music, run a search, or teach it up to 50,000 different skills from Amazon's ever expanding library. There is a line, or Bluetooth connection, and that new premium mesh grill look is here. Three new colors to carry through as well - charcoal, glacier white, or twilight blue. Our reviewer, Erika Rawes, loved the modern elegance of this new spherical form factor, and how 4th Gen Dot represents the culmination of the year of Amazon's smart home training. The new Echo Dot is a great speaker for a great price... for first time buyers, it's a no brainer. - Erika Rawes, product tester For What We Like Affordable Works with Alexa and Google Home Easy use What we don't like just controls up to eight devices Logitech's Harmony Hub isn't your typical smart hub, but it's compatible with over 270,000 entertainment and smart home devices. With a simple setup that can have you online and connected to up to eight devices within minutes, Harmony Hub works great with your TV, satellite, cable box, Blu-ray player, Apple TV, Roku, game consoles, and more. Creating custom activities is a breeze with the downloadable Harmony App for both Android and iOS devices. Tap the pre-programmed in-app button and immediately turn off the Philips Hue smart lights, turn on the connected speaker and TV, launch Netflix, and let the start date start with a single click. Harmony Hub includes Amazon Alexa and Google Assistant support so you can include handsfree voice control. Without voice control, the Logitech Harmony Hub truly stands out for its closed cabinet control, allowing it to send commands to connected devices via Bluetooth, Wi-Fi, or infrared commands that don't require direct line-of-sight. What we like Working with Alexa and Google Assistant Works with several smart home protocols for Affordable What We Don't Like the subscription fee required for Wink 2 is a second generation smart center that connects to an impressive number of gadgets because it includes support for several smart home protocols. It works with Alexa, Google Home, Z-Wave, Zigbee, Lutron Clear Connect and Kiddle devices. Inside the 7.25 x 7.25 x 1.75 inch frame is a powerful Wi-Fi radio Ethernet ports for a stable Internet connection. Fortunately, the ease of setup is consistent with the quality of its design thanks to a simple smartphone app for both Android and iOS devices. In less than five minutes, you'll be able to connect to smart devices like Philips Hue lighting, Ecobee thermostats, or Nest cameras. The four main features (control, automate, monitor and schedule) round out from Wink 2 are fully distribute options. All totaled, between these four features, Wink 2 can support up to 530 devices paired at once with seamless integration. In addition, the separately purchased meashy Relay plugs directly into your wall, allowing you to control all wink-ready devices without a smartphone. The main downside to Wink 2 is that it requires a subscription that costs \$5 a month to access devices when you're not on your local Wi-Fi network. What we like unique design Serves as an eye Wi-Fi system easy setup What we don't like Tenda Nova MW6 3-pack provides a powerful, high-speed internet in every inch of your house, with up to 6,000 feet of combined coverage. Doesn't quite need a 6,000 foot coating? Tenda Nova also comes in two packs and one package to suit your home's specific needs. Doubling as a Wi-Fi router and home automation system, it is compatible with major Internet service providers (think AT&T, Verizon, Spectrum, etc.). Tenda Nova MW6 supports a stable connection to up to 90 devices simultaneously, linking to your favorite smart devices like Amazon Echo and Alexa, as well as your smart TV, security system and smart devices. The setup process is as simple as adding a modem and instructing your program to go. From there, the Tenda system can be controlled from anywhere and on any device. You can adjust temperature settings, listen to music from your home entertainment center, or even set time limits for Wi-Fi to use for your children and teenagers. Final verdict Adding Zigbee Hub and temperature sensor, Amazon Echo (4th Gen) is a full-featured smart hub at great price, making it an ideal option for anyone who wants to control a variety of smart home devices. For those who prefer google assistant or those who just want a screen, the socket hub max is the way to go. Erika Rawes has been writing professionally for over a decade, and she spent the last five years writing about consumer technology. Erika has reviewed about 125 gadgets, including computers, peripherals, A/V devices, mobile devices, and smart home gadgets. Erika currently writes for Digital Trends and Lifewire. David Beren is a tech writer with over 10 years experience in the industry. He has written and managed content for technology companies such as T-Mobile, Sprint, and TracFone Wireless. Compatibility - There are different standards to communicate with smart including ZigBee and Z-Wave. Before buying a Smart Home Hub, make sure it supports the standards that your existing smart home devices use. Automation - Some hubs will include automation software for your smartphone or computer. If you are looking for your home lights to automatically turn on at a certain time or the thermostat adjust itself

depending on the weather, you will want to make sure that your center includes the necessary software. Coverage – Depending on the size of your home, you may need to check whether the hub you are buying will provide sufficient coverage. If it's not powerful enough to transmit a signal throughout the room, some smart devices may not respond. Thanks for letting us know! Tell us why! Why!

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