Smart Home Automation News

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What is Z-Wave, and Why Is It So Popular?

Posted on August 19, 2016 by <u>Kayla Eide-Hall</u> in <u>Featured</u>, <u>Popular</u>, <u>Smart Home</u>



(https://homecontrolsblog.com/2016/08/19/what-is-z-wave-and-why-is-it-so-popular/z-wave_logo-2/) If you're into smart home automation, you're bound to hear about Z-Wave technology, or Z-Wave hubs, or Z-Wave something or another. That's because Z-Wave wireless technology has become the go-to smart home communications protocol for the everyday homeowner who wants an affordable, do-it-yourself home automation system. But why is Z-Wave so popular? Well, for quite a few reasons.

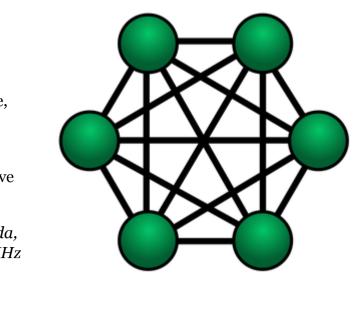
What is Z-Wave?

communications protocol that works sort of like Wi-Fi or Bluetooth, yet is also remarkably different. Z-Wave works as a mesh wireless technology. Instead of requiring the wireless signal to travel directly from the source to the receiving device, Z-Wave mesh network technology allows every Z-Wave device in your system to talk amongst one other. That means the reliability and signal range are superb. In more technical terms, Z-Wave devices use radio frequency (RF) waves to communicate with each other. A single Z-Wave

To understand Z-Wave's popularity, you first have to understand how it works. In simple terms, Z-Wave is a wireless

network/system can support up to 232 Z-Wave devices, also known as nodes. Do note that Z-Wave devices work on different frequencies in different countries. If you're in the United States or Canada,

you'll want to purchase Z-Wave devices that use the 908.42 MHz frequency. European devices operate on the 868.42 MHz frequency.



How a Z-Wave System Works

When you're ready to build your own Z-Wave system, you'll start by purchasing a Z-Wave hub, also known as a network controller, or simply a controller. The hub serves as the system command center. Many different Z-Wave hubs are available, and they all have their own way of operating, but fundamentally, the hub is what allows you to program the rest of your system, monitor operations, and change functionality as you wish.



(https://homecontrolsblog.wordpress.com/2015/07/22/ultimate-guide-how-to-choose-a-z-wave-smart-home-hub/)

Once you have a hub, you can build out your system with Z-Wave devices, including everything from Z-Wave motion sensors and alarms to Z-Wave light bulbs and ceiling

To choose the best Z-Wave hub for you, check out the Home Controls "Ultimate Guide: How to Choose a Z-Wave Smart Home Hub."

fan controls.









you're ready to enjoy your Z-Wave system, accessible anywhere through a mobile app or web browser.

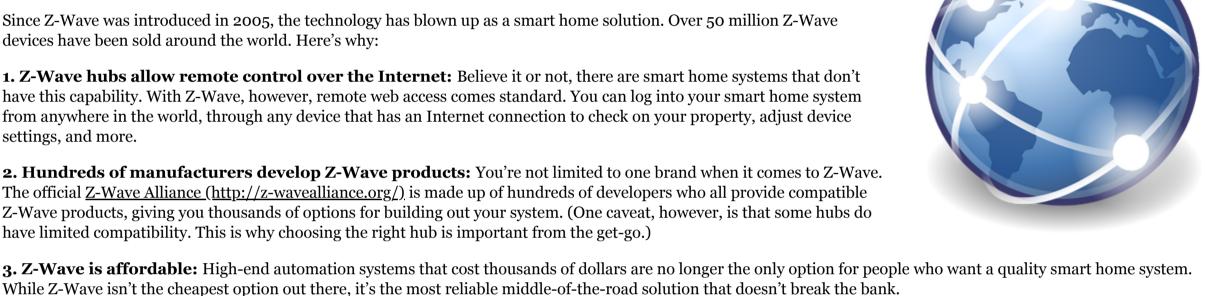
Since Z-Wave was introduced in 2005, the technology has blown up as a smart home solution. Over 50 million Z-Wave devices have been sold around the world. Here's why:

Why is Z-Wave So Popular?

1. Z-Wave hubs allow remote control over the Internet: Believe it or not, there are smart home systems that don't have this capability. With Z-Wave, however, remote web access comes standard. You can log into your smart home system

from anywhere in the world, through any device that has an Internet connection to check on your property, adjust device

settings, and more. **2.** Hundreds of manufacturers develop **Z**-Wave products: You're not limited to one brand when it comes to **Z**-Wave. The official Z-Wave Alliance (http://z-wavealliance.org/) is made up of hundreds of developers who all provide compatible Z-Wave products, giving you thousands of options for building out your system. (One caveat, however, is that some hubs do have limited compatibility. This is why choosing the right hub is important from the get-go.)



4. You can set up Z-Wave yourself: Z-Wave hubs and devices are designed for the DIYer. You may need tech support at times (provided free by Home Controls), but for the most part, you can build your Z-Wave system without help from a professional installer.

5. Z-Wave isn't going anywhere: This technology is here to stay, and that's a huge plus when you're investing in a smart home system. In this cutting-edge home automation industry, startup developers go out of business on the regular, often leaving their early adopters out of luck for support or future products. With Z-Wave, that

risk almost non-existent thanks to the technology's huge popularity both with homeowners and product developers. **6. Optional integration with other technologies:** Because Z-Wave is already so popular, many product developers have made it possible to integrate Z-Wave systems and individual devices with other types of smart home automation or security systems. If you have a traditional wired alarm system installed at home, for example, you can connect a Z-Wave hub to enable remote access over the Internet and integrate new Z-Wave devices into your existing system. And that's just one

bank-grade encryption. The main reason a Z-Wave system ever gets hacked is due to an insecure Internet connection, and that's easily avoidable as long as you care. Secure your home network, and your Z-Wave system will stay secure with it.

7. Z-Wave is secure: Z-Wave systems typically don't get hacked due to vulnerability in a Z-Wave hub or connected Z-Wave device. Those products are locked down by

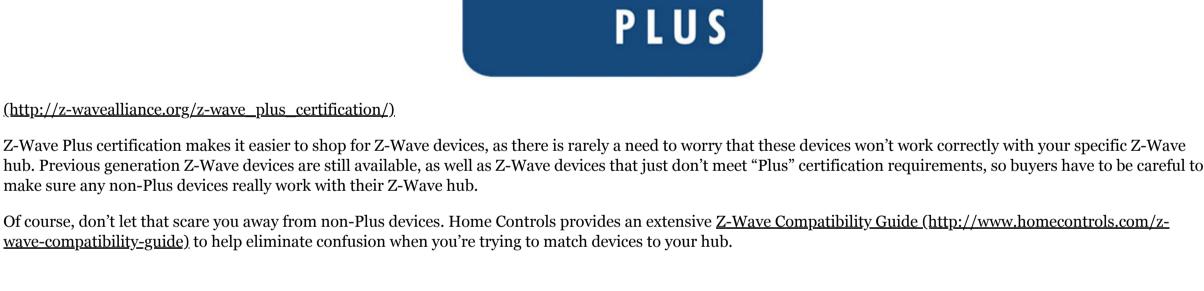
When Z-Wave first came on the scene, devices made by various manufacturers weren't as compatible as they were chalked up to be. To solve that problem, "Z-Wave Plus"

And What is Z-Wave Plus?

example. The options for integration are nearly endless.

<u>certification (http://z-wavealliance.org/z-wave_plus_certification/)</u> was organized. Also known as the 500 Series, the 5th Generation, 5Gen, Gen5, or Next Gen Z-Wave, the new selection of Z-Wave Plus devices helps ensure interoperability among different manufacturers' devices.

When you work with Z-Wave, there's one final major aspect to know about the technology — the difference between "Z-Wave Plus" devices and other Z-Wave devices.



(http://z-wavealliance.org/z-wave_plus_certification/)

How to Start Building a Z-Wave System No matter what your goal is for your Z-Wave system, Home Controls offers everything you need to get started, including free product advice, custom system designs, and

tech support. As a one-stop shop, we carry <u>hundreds of Z-Wave products (https://www.homecontrols.com/home-automation/lighting-appliance-controls/shop-by-</u> technology/z-wave-lighting-appliance-controls) from the top Z-Wave manufacturers, allowing you to build your system without shopping in several different places.

Give us a call, shoot us an email, or chat with us online for friendly support as you dive into your new Z-Wave adventure: http://www.homecontrols.com/contact-us (http://www.homecontrols.com/contact-us)

smart home **Z-Wave**

Could I have different brand products working with same Z wave plus hub?

Marketing Operations Manager at Home Controls and contributing author to homecontrolsblog.wordpress.com 2 Comments on What is Z-Wave, and Why Is It So Popular?

2. Bob G // <u>April 12, 2017 at 7:32 am // Reply</u> In theory all Z-Wave parts "should" be compatible, however, in reality, not every Z-Wave part works with every hub. Our experience shows that most newer devices will work with most newer hubs. We do have compatibility lists and you can always call us to ask about specific devices working with your hub.

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1. Ric // April 11, 2017 at 11:18 am // Reply

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