

SMART HOME LIVING

Advanced, full wireless smart home solution



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WHAT IS WIRELESS HOME AUTOMATION

Home automation systems have been around since at least the 1960s, when the "homes of the future" at Worlds Fairs and technology expos featured automated control of things like lighting, heating and air conditioning, and, of course, robot assistants.

All of those features (yes, including the robots) are available in today's home automation systems, but with one key difference—homeowners who want to control their home's systems no longer need to worry about poor system performance due to radio signals failing to travel from one end of the home to the other, a common frustration point for decades. Wireless home automation has solved this once intractable problem of home automation, offering consistent, fast and reliable signals to communicate with all manner of home control systems.

Smart home devices can be managed remotely through an app on your smartphone or computer, with many also responding to voice commands using digital assistants like Siri and Alexa. Smart devices often communicate with one another through protocols like Z-Wave, ZigBee and Wi-Fi to create a home automation network.



WHAT ARE THE DIFFERENT OPERATING STANDARDS FOR HOME AUTOMATION TECH?

The primary operating standards for home automation technology are these four: Wi-Fi, Z-Wave, Zigbee, and Bluetooth Low Energy (BLE).

Here's a closer look at how those different technologies work.



Most people know Wi-Fi, but they may not realize that it has a place in home automation. Lots of smart devices on the market connect to smartphones or hubs via Wi-Fi, and that makes sense—it's a widely available network that people know how to use.



Many smart home products use the Z-Wave protocol, which usually transmits on the 868.42 MHz frequency. The protocol employs a mesh network—a chain that turns individual smart devices into nodes. These nodes pass data packets from device to device until the packets reach their final destination.



Like Z-Wave, Zigbee relies on a mesh network. However, it generally runs on the 2.4 GHz frequency. Many smart home devices use the frequency because of its long range. Some developers enjoy working with the Zigbee protocol because of its security and low power usage. Consumers, in turn, benefit from that built-in security in their Zigbee devices.

WIRELESS HOME AUTOMATION ELEMENTS





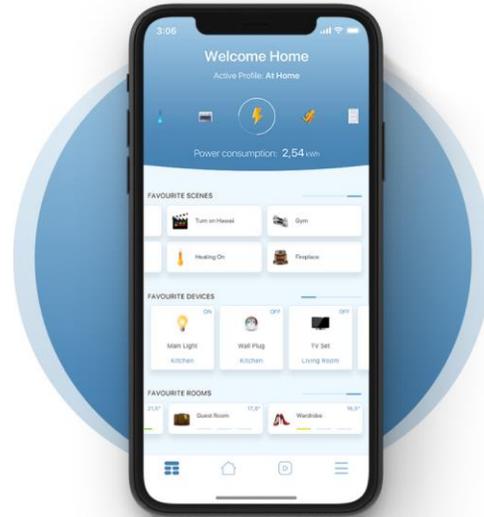
SMART HUBS

The hub is the command center of your smart home ecosystem. It's the piece that connects your individual devices and helps them talk to one another. Some systems have hubs that work only with devices from the same manufacturer, while others—like the Amazon Echo—work with myriad pieces.



CONNECTED MOBILE APPS

An app is what gives you the ability to control or monitor your smart devices remotely. You simply download the system's companion app and pair it with your hub, and you're done. While each product's app works a bit differently, they generally provide power controls, timer access, and more.



SMART DEVICES



Smart devices are the real workhorses of a smart home system.

They're the parts that actually implement commands. In the next slides a few examples of the different types of smart devices you may be able to add to a system





LIGHTING CONTROLS

Lighting controls require little fanfare. They cover dimmers, lightbulbs, light strips, and switches. Many manufacturers live in the lighting space.

Light bulbs and strips



Smart light bulbs and strips normally controlled directly from vendor application using WiFi, and others requires hub to control such as Zigbee lights.

Light control switches



They are designed to replace legacy existing normal light switch and can be controlled through a hub.

Light control modules



They are designed to be installed behind normal switches and act by using the switches or remotely

ACCESS CONTROL AND SECURITY GADGETS

Access control and security devices include security cameras, smart locks, and motion sensors.



Security Cameras and Recorder

Security cameras and recorders are the basic aspect of security of each modern home. Through the system application you can monitor your home anytime and recall camera recordings.

Smart Door Lock and Motion Sensors

Another great feature for smart home is the ability to unlock and monitor your home main entrance gates. Combined with motion and door/window sensors a complete security system is achieved where instant notification is raised when a house breach occurs while away.



Water, Gas, CO sensors and Valves

For safety reasons implementing a smoke, water leakage and gas sensors along with automated valve control would protect your property from catching fire or get flooded with water.





CLIMATE CONTROL

Climate control services often dovetail with energy management systems. Smart thermostats are the most popular example of climate controllers.



A/C Control



Underfloor
Thermostat



Radiator
Thermostat

APPLIANCES

Almost any appliance could become a part of your home automation system in the next few years. Smart refrigerators, washing machines, dishwashers, and ovens already exist. Smaller appliances, such as connected coffee pots and slow cookers, have been around for a while, too.

When a non-smart appliance need to be a part of your smart home eco system, a basic control devices are available for such application. This includes pool filtration pumps and heating systems, coffee machines, and water boilers.



Smart Plugs



Heavy duty line switches



Low current line switches



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