

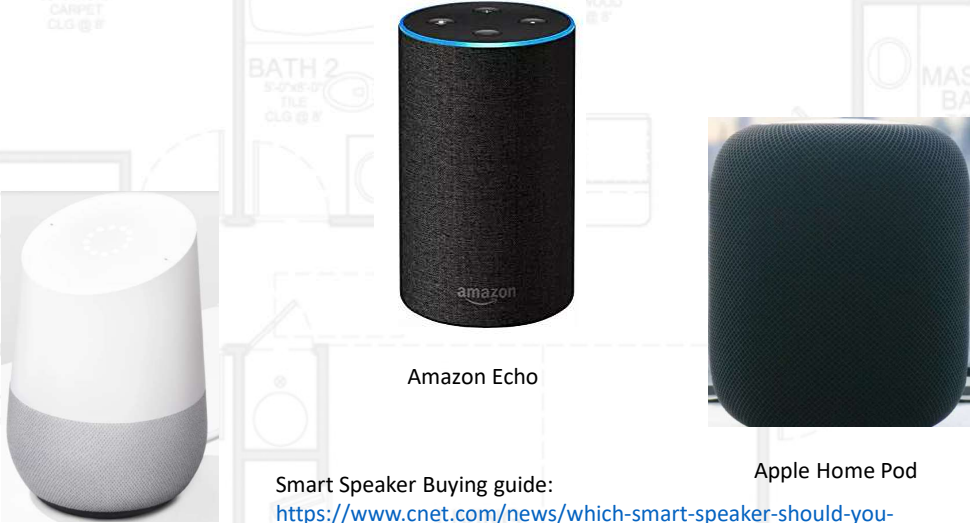
How Does it Work?

- Controllers and devices are attached to the Internet through the home's Wi-Fi. This allows control both locally and over the Internet from anywhere.
- Once attached the devices can be controlled by an app or by voice through the use of a home controller. Devices can also be programmed to perform a service at a given time.
- Voice devices use AI at their home company to understand what is being said to them and then executing the command locally.

Who Makes Controllers?

- Amazon with the Echo using Alexa
- Google with Google Home using Google Assistant
- Apple with the HomePod using Siri
- Sonos with the Sonos One (Alexa Compatible)
- Many other companies are beginning to produce devices using one of the major company AI services

Several other companies make hubs to control multiple devices in a specific product line.




Google Home

Amazon Echo

Apple Home Pod

Smart Speaker Buying guide:
<https://www.cnet.com/news/which-smart-speaker-should-you-buy/?ftag=CAD6b2b181&bhid=27910680753358633043533287264741>

Add on Customization



What Devices Work With These Controllers?

A wide variety of devices work with these devices

- Lighting - turn lights on and off, dim and change colors
- Security Devices - cameras, smart locks and smart doorbells
- Entertainment – play music and control TV
- Information – get answers to questions
- Appliances – Refrigerators, stoves, HVAC, ceiling fans, clothes washers
- Maintenance – Vacuums, window washers and sprinkler systems

*Note different devices may only work with certain controllers

Lighting

- Smart Bulbs
- Smart Switches
- Smart Plugs



Security Devices

- Doorbells
- Cameras
- Sensors
- Baby/Room monitor



Camera



Door/Window Sensor



Security Controller



Doorbell

Entertainment

- Music (depends on device)
- Audio Books
- Podcasts
- Control TV



Google Play Music

YouTube Music

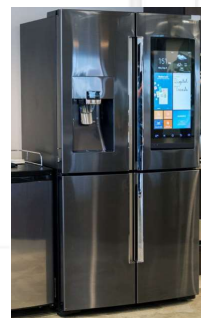


Information/Services

- News
- Traffic and Weather
- Questions
- Reminders/Lists
- Calendar
- Make calls
- Send Texts
- In Home communication
- Shop


Appliances

- HVAC Thermostats
- Refrigerators
- Clothes Washers
- Stoves



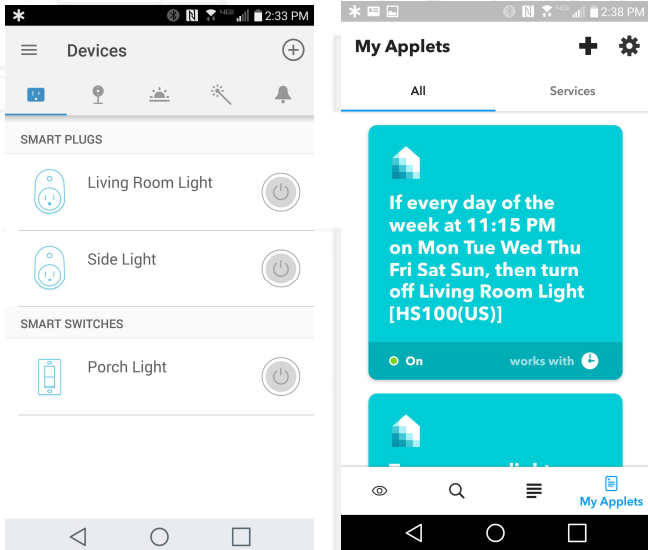
Maintenance

- Vacuums
- sprinkler systems
- window washers



How Do I Control Devices?

- Vendor Supplied App
- IFTTT (If This Then That)
- Can be controlled by phone, tablet, PC or controller



What Does It Cost?

- Total cost for a smart home can range from under a hundred dollars to several thousand depending on how far you go.
- Controllers go from \$50 to \$350 although they may be available on sale
- Switches and plugs are available from \$15 to \$55
- Lights \$15 to \$30 (May require additional one time hardware purchase)
- Door locks \$140 to \$300
- Cameras \$40 to \$120

What Issues Should I Be Aware Of?

- Privacy
You will be giving personal information to the companies whose products you use
- Security
Many IOT devices have insufficient security built in to protect your network from attack