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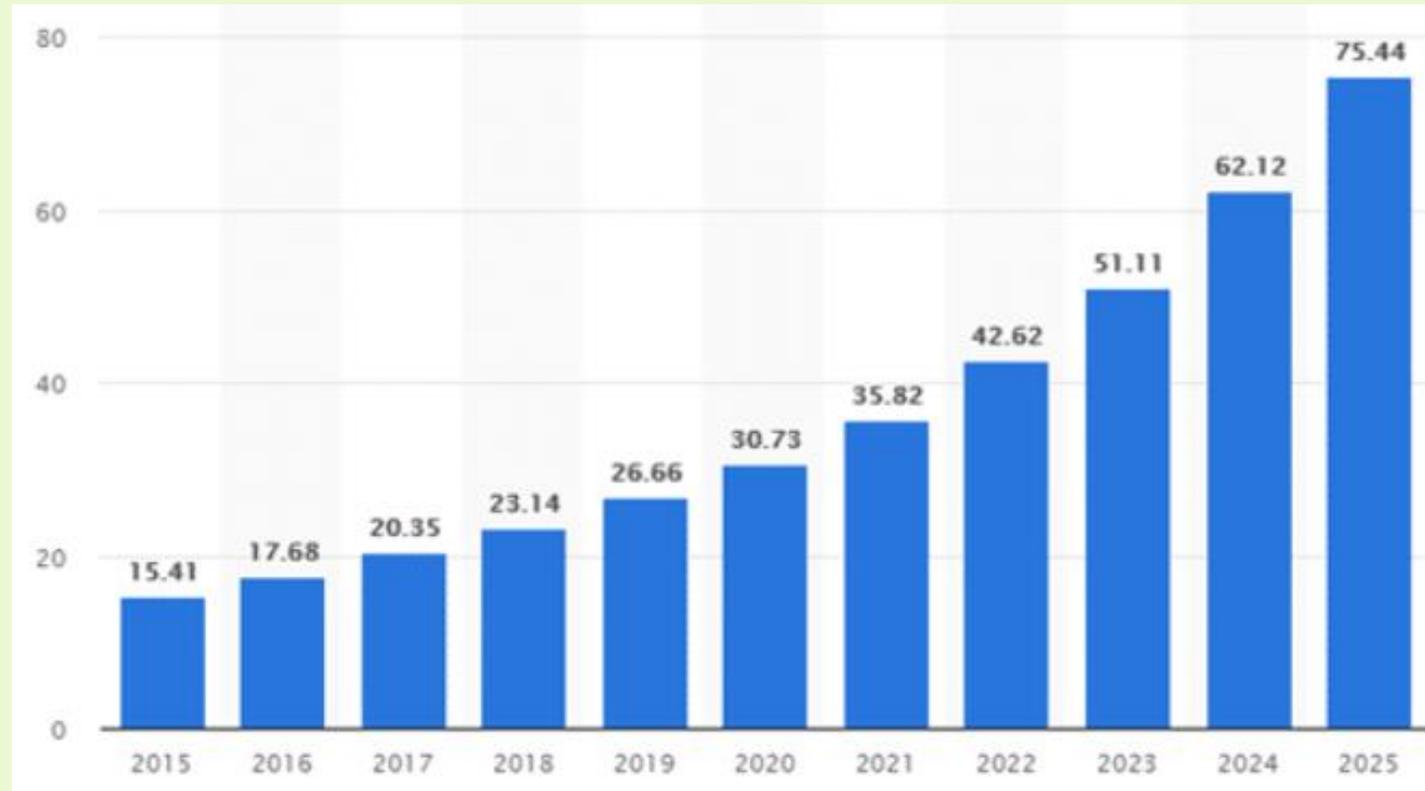
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Smart home devices – 2015 - 2025

- Increasing demand for these devices in the near future.
- Numbers in the Billions.





Reasons for Home Automation

- Connecting the tech in your home to your Wi-Fi network and each other has many benefits
 - Can control everything in real time
 - Either through a voice-controlled hub, your smartphone, or tablet
 - Makes your life easier, saves you time.....
- Your home gets to know you and your family and automatically works based on what's happening, without the need for your input.



Start with a Plan

What do you want to accomplish for your kitchen?

- Smart lights
- Smart appliances
- Smart Gadgets
- And much more
- What is your plan?
- What is your budget?



Start with a Plan

- How much do you want to spend now?
- In six months?
- A year?
- Rolling out your smart kitchen in stages helps spread out the cost



Amazon Echo vs. Google: Which smart speaker is best?

- Google Assistant is more conversational
- Often remembers what you were talking about or lets you carry ideas throughout a conversation
- Alexa tends to be a stickler for wording and a particular sequence of words
- Alexa leans heavily on Wikipedia for general knowledge questions
- Google's search is more comprehensive
- Alexa beats Google in shopping-related questions – she really wants to help you buy things from Amazon



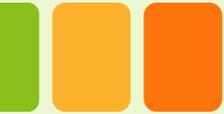
Amazon Echo vs. Google: Which smart speaker is best?

- Both Assistants let you combine your devices into rooms
- You can say things like “turn on the kitchen lights.”
- Both support routines/skills which let you combine multiple actions into one command
- Google Home has one big content advantage, it integrates with YouTube



Cooking with Google Assistant

- Choose your recipe
- “Hey Google, prepare the ingredients”
- Assistant will start to read the ingredients
- “Hey Google, next ingredients” to get more ingredients
- Reads the instructions in individual steps or in clusters of three
- Can ask your Assistant to repeat steps, set a timer, convert teaspoons to tablespoons.....



Cooking with Google Assistant

- Ask your questions
- "Find me a lasagna recipe" - "I want to make banana bread"
- "How do I cream sugar and butter?"
- "Can I replace baking soda with baking powder?"
- "How many does this serve?"
- "How much is that in cups?"

Save your favorite recipes with Cookbook

You can save recipes and return to them later with Cookbook.

To do this:	Say "Ok Google" or "Hey Google," then:
Save a recipe	"Save" "Save this recipe" "Add this recipe to my cookbook"
Access saved recipes	"Show me my cookbook" "Show my saved recipes"

- [Cook with your Google Assistant on your speaker or display - Google Nest Help](#)
- [Listen to music on speakers and displays - Android - Google Nest Help](#)



Cooking with Google Assistant

- Enjoy your favorite cooking-inspired music
- Free or pay
- YouTube Music, Spotify Free, Pandora
- Don't use the general command "Hey Google, next"
- Use "Next song" (music)
- "Next step" (cooking) to distinguish between the two actions
- Tech with Brett [\(3\) How to Cook With Google Home - YouTube](#)



Cooking with Alexa. Cooking interface

- Voice interaction model is already built for you.
- Alexa, is the oven on?
- Alexa, is the microwave running?
- Alexa, stop the microwave.
- Alexa, turn off the oven.
- Alexa, set the oven to convection bake.
- Alexa, defrost three pounds of meat in my microwave.
- Enable announcements to notify you when the cooking appliance or the food needs attention.



Cooking with Alexa

- Automate your gadgets
- Look up recipes
- Convert measurements
- Adjust your smart appliances
- Stream video tutorials
- Add items to your grocery list
- Listen to music
- Track calories



Cooking with Alexa and the Food Network

- Use Alexa to unlock live and on-demand cooking classes
- Cook hands-free
- Interact with expert chefs
- Stream episodes of your favorite series
- Interact with Allrecipes
- [How To Use the Food Network Kitchen App on Amazon Devices | FN Dish - Behind-the-Scenes, Food Trends, and Best Recipes : Food Network | Food Network](#)
- [Alexa | Allrecipes](#)

Let's start with smart bulbs

- We want to control them with our voice
- C by GE bulbs
- What to spend more money
- Upgrade to Philips Hue bulbs



Smart Bulbs

- Before you buy - check the base fittings
- Many smart bulb manufacturers make a variety of different fittings



Smart Plug Outlet Extender - \$16.99

- Control your appliances with Wi-Fi
- 3 USB Ports, 6 Outlet Wall Adapter Plug Extender for App Control – FCC compliant – 2.5GHz
- Works with Alexa and Google Home
- Set up name of the appliance for each socket.
- “Hi Google, turn on /off the whatever”
- Makes your life more convenient
- <https://www.amazon.com/Smart-Extender-Protector-Adapter-Control/dp/B09JZCXQNY?th=1> - Amazon.com



2.4GHz WiFi Smart Plug - \$19.99/2 pack

- Control your appliances with Wi-Fi and your voice
- Works with Alexa & Google Home Assistant
- Protect enable away mode and look like you're home even when you're not.
- Schedule control and schedule lights and appliances from anywhere
- Stack space-saving design won't cover the whole outlet
- [Wyze Plug, 2.4GHz WiFi Smart Plug, Works with Alexa, Google Assistant, IFTTT, No Hub Required, Two-Pack, White - Amazon.com](#)



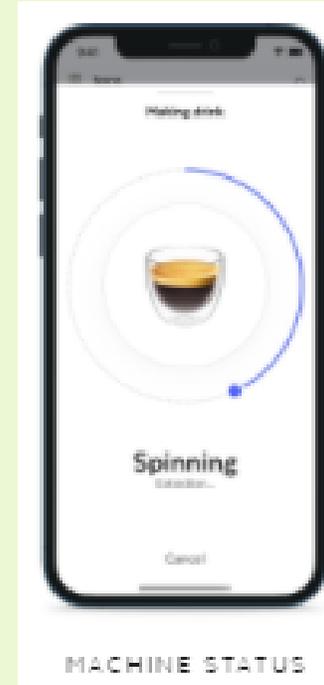
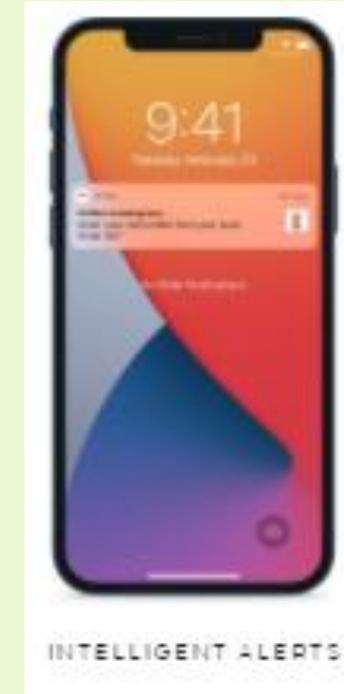
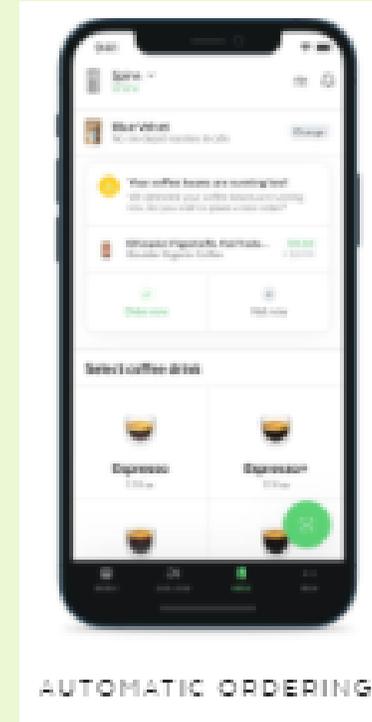
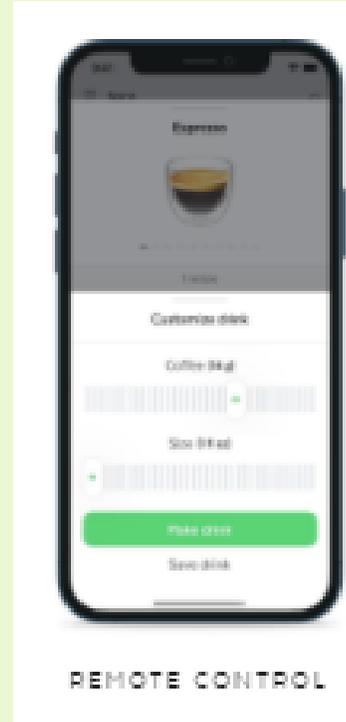
Smarter Smart iCoffee Brew Coffee Maker - \$144.89

- Wi-Fi Enabled: state-of-the-art remote brewing with Wi-Fi capability from any device using the SMARTER app
- Can connect to Amazon Alexa, Google Assistant, Nest and more
- Keeps coffee at desired temp for 40 minutes
- Programmable: Customize for your own brewing tastes and set alarms to have coffee ready whenever you want it, however strong you want it
- Easy to Use: simple set up and pairing to multiple devices to add an additional resource to your smart home capabilities
- [Amazon.com: Smarter Smart iCoffee Brew Coffee Maker in Red with Built-in Grinder App for Customized Coffee On Demand : Home & Kitchen](#)



Spinn Smart Wi-Fi Coffee Maker - \$799.99

- World's first bean-to-cup coffee maker that can make a single serve Espresso, Lungo, Americano, Carafe of Coffee



- [Coffee Maker & Coffee Beans Market Place - Spinn](#)

Smart Korex Electric Kettle - \$85.99

- Alexa and Google Assistant
- Plus 'Smartlife App'
- Download from Amazon App Store or Google Play
- Kettle automatically shuts off once the water has reached the selected temperature
- Automatically shuts off when kettle is nearly empty



- [Amazon.com: Smart Electric Kettle APP Control, Korex Glass Water Boiler Included Filter Suitable for Alexa Google Home Assistant 1.7 L BPA FREE Great for Coffee Tea Milk With Overheat Protection Controlled by Smartphone: Home & Kitchen](#)

Ember Temperature Control Smart Mug - \$129.95

- Alexa & Google Assistant with Ember app
- App-controlled to set the temperature of your coffee or drink of choice
- Remembers last preferred drinking temperature
- Wakes up when hot liquid poured in and sleeps when empty
- 80 min. battery Life
- Sleep mode after two hours of inactivity or an empty mug



- [Amazon.com | Ember Temperature Control Smart Cup, 6 oz, App-Controlled Heated Coffee Cup, Espresso Mug with 90 Min Battery Life, Black: Espresso Cups](#)

Intelligent Cocktail Creation- \$369.99

Bartesian Premium Cocktail and Margarita Machine for the Home Bar

- Mixologist-approved drinks with your favorite whiskey, vodka, rum, gin or tequila
- Insert a cocktail capsule, select your preferred strength and press mix
- Cleans itself after each cocktail is created



- [Amazon.com: Bartesian Premium Cocktail and Margarita Machine for the Home Bar with Push-Button Simplicity and an Easy to Clean Design \(55300\) : Grocery & Gourmet Food](#)

Umbra Otto Automatic Soap Dispenser - \$39.99

- Touchless, Hands Free Pump for Kitchen or Bathroom
- 8.5 oz liquid hand soap, dish soap or sanitizer dispenser
- Dispenses soap or sanitizer in 0.2 seconds



- [Amazon.com: Umbra Otto Automatic Soap Dispenser Touchless, Hands Free Pump for Kitchen or Bathroom, Regular, White/Gray : Home & Kitchen](https://www.amazon.com/dp/B000048888)

Utensil Stirr Automatic Pan Stirrer - \$41.50

- Rechargeable automatic stirrer
 - LED lights to indicate speed
 - Self-rotating with three-speed options
 - USB charging stand
-
- [Amazon.com: Utensil Stirr - The Unique Automatic Pan Stirrer - With LED Speed Indicator, Red: Home & Kitchen](#)





Out of Milk Grocery Shopping List App

- Manage lists hands-free – Google Home and Alexa
- Use your voice to add items to your list as you put them in your trash can
- Shopping List, Pantry List & To-Do List in a small, intuitive and easy-to-use app.
- Shopping List stays with you everywhere you go
- Pantry List allows you to keep track of your pantry items (spices, essentials, etc...)
- To-Do list helps you keep track of any other items on your daily list.
- [Out of Milk – The Grocery Shopping List App](#)

Instant Pot Smart Wi-fi 6 Quart ... \$149.99

8 in 1 kitchen appliances -- pressure, slow, and rice cooker; yogurt and cake, sauté pan, steamer, and warmer

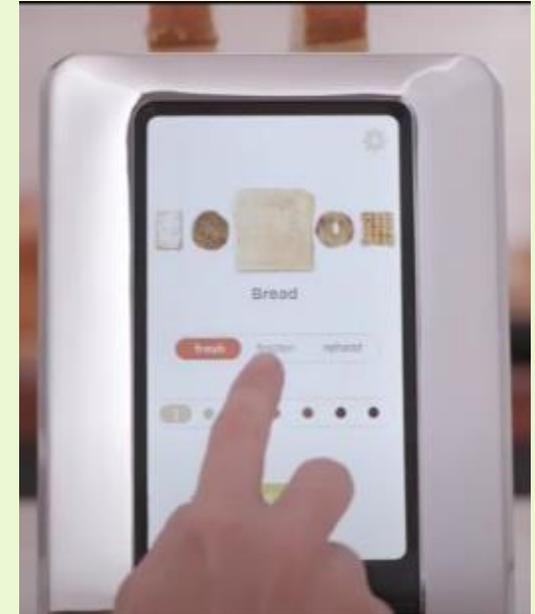
- Compatible with Alexa
- Verify cooking progress
- Share cooker access with family
- Receive alerts on your mobile device



- [Amazon.com: Instant Pot Smart Wifi 6 Quart Multi-use Electric Pressure, Slow, Rice Cooker, Yogurt, Cake Maker, Sauté, Steamer and Warmer, Silver: Home & Kitchen](https://www.amazon.com/Instant-Pot-Smart-Wi-Fi-6-Quart-Multi-Use-Electric-Pressure-Cooker-Yogurt-Cake-Maker-Sauté-Steamer-and-Warmer-Silver-Home-Kitchen/dp/B078K38634)

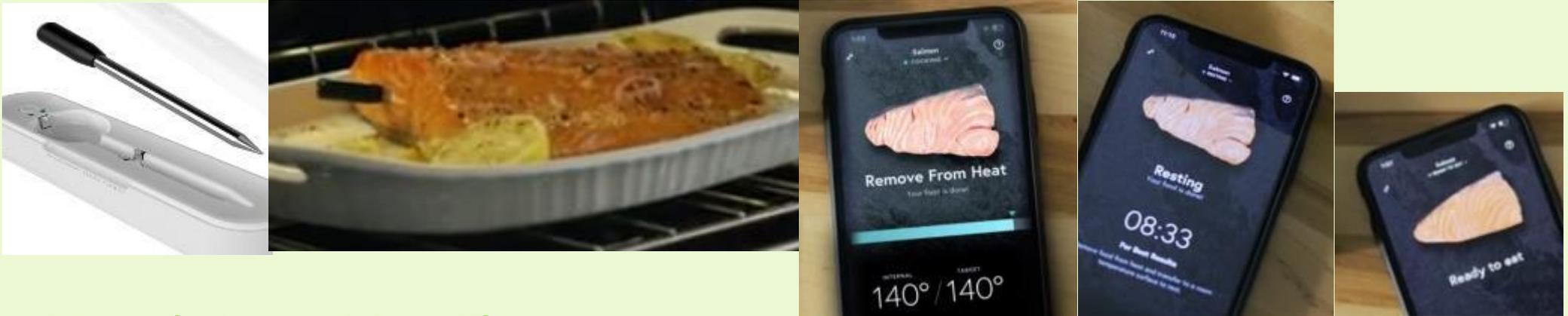
Revolution InstaGLO™ R180 Toaster - \$349.95

- 60+ digital settings
- Choose bread, bagel, waffle, English muffin or toaster pastry
- Smart sensors customize the heating process based on bread type, voltage level and toaster's temperature
- Manual reheat warms up toast in 15 seconds
- Defrost setting adjusts cook times for frozen items
- [Amazon.com: Revolution InstaGLO™ R180 Toaster. 2-Slice, High-End Stainless Steel Design. Features Touchscreen with 60+ High-Speed Smart Settings for Perfectly Toasted Bagels, English Muffins, Toast, Pop-Tarts and much more: Home & Kitchen](#)



Yummly Smart Thermometer - \$79.99

- iOS and Android
- Thermometer can track two temperatures at once
- Use with B-B-Q grill, smoker, and air fryer
- Works at a range of up to 150 feet
- 25+ hours of continuous use between charges



- [Yummly Smart Meat Thermometer with Wireless Bluetooth Connectivity \(amazon.com\)](https://www.amazon.com)

COSORI Smart Wi-Fi Air Fryer - \$139.99

- Relax on your couch VeSync notifications
- Three ways to control
 - Directly from the display
 - Remotely through the VeSync app
 - With Alexa and Google's Assistant
- Mark your favorite recipes
- View your recipe history
- Create and save your own custom recipes
- [Amazon.com: COSORI Smart WiFi Air Fryer\(100 Recipes\), 13 Cooking Functions, Keep Warm & Preheat & Shake Remind, Works with Alexa & Google Assistant, 5.8 QT, Black : Home & Kitchen](#)



GE Countertop Microwave Oven... \$159.99

- 0.9 cubic feet / 900 watts
- Works with Google Assistant and Alexa
- Use your voice to operate your microwave from any room in the house
- Scan-to-cook technology with manufacturer's bar code

[Amazon.com: GE JES1097SMSS Countertop Microwave Oven | Complete with Scan-to-Cook Technology and Wifi-Connectivity | 0.9 Cubic Feet Capacity, 900 Watts | Smart Home & Kitchen Essentials Cu Ft, Stainless Steel : Home & Kitchen](#)



GE Profile™ 30” Electric Range - \$1,598.00

- Profile Connect Series– built-in Wi-Fi
- Can control oven functions with the SmartHQ app on your smart device
- No reheat air fry
- Self-cleaning
- Pre-heat your oven on the way home
- Make sure you turned off your burners



- [GE Profile 5.3 cu. ft. Electric Range with Steam-Cleaning Convection Oven and Air Fry in Stainless Steel-PSS93YPFS - The Home Depot](https://www.homedepot.com/p/GE-Profile-5-3-cu-ft-Electric-Range-with-Steam-Cleaning-Convection-Oven-and-Air-Fry-in-Stainless-Steel-PSS93YPFS/318281000)
- <https://www.youtube.com/watch?v=rzWHknDt-Ck>

GE Profile™ 30” Gas Range - \$3,058.00

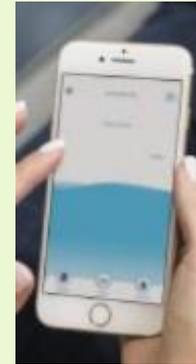
- Wi-Fi convention oven
- No hub required
- Synchronize clocks and lights with Chef Connect
- True convection with advanced air
- Dual fuel - gas cooktop and electric oven with hidden bake
- Precision temperature probe
- [GE Profile 5.7 cu. ft. Slide-In Dual Fuel Range with Self-Cleaning Convection Oven in Fingerprint Resistant Stainless Steel-P2S930YPFS- The Home Depot](#)



GE Profile™ Refrigerator- \$2,998.00

- 27.9 cubic feet – 4 doors
- Door-in-door revolving door
- Soft-close drawers
- Entire back wall of LEDs illuminate your entire refrigerator with crisp, white light
- Leave a door open? Your smart device will notify you

- [GE Profile 27.9 cu. ft. Smart 4-Door French Door Refrigerator with Door in Door in Fingerprint Resistant Stainless Steel-PVD28BYNFS - The Home Depot](#)



GE Profile™ Dishwasher - \$1,394.00

- 24" top control - 3 racks – room for 16 place settings
- Piranha hard food disposer - stainless steel blade rotates at 3,600 RPM
- Steam and Sani - reduces 99.999% of bacteria
- 9 dBA - ultra-quiet
- Wi-Fi connect
- Monitor cycle status, check rinse aid levels and automatically reorder detergent using your mobile device



- [GE Profile 24 in. Stainless Steel Top Control Smart Built-In Tall Tub Dishwasher with 3rd Rack and Ultra Quiet 39 dBA-PDT785SYNFS - The Home Depot](#)

GE Water Softener - \$699.00

- Use up to 50% less dishwasher detergent and enjoy cleaner dishes with fewer spots
- Reduces scale and build up in water heaters
- Use Wi-Fi to monitor water usage and flow rate
- Receive a notification when salt levels are low



- [GE GXSHC40N Water Softener, 40,000 Grain \(Smart Home\), Gray - - Amazon.com](https://www.amazon.com/GE-GXSHC40N-Water-Softener-40000-Grain-Smart-Home-Gray/dp/B000000000)

Clean your kitchen – Wyze Robot Vacuum -

\$299.39

- Room mapping
- Path planning
- Sensor groups including Laser Distance Sensor (LIDAR)
- Area selection, scheduling, and virtual walls in Wyze App
- The LIDAR sensor is a spinning laser on top of the vacuum. Every second, it spins around 6 times and measures the distance to 2,016 different points in the room to build a map. You can see, edit, and save the map in the Wyze app.
- [Wyze Robot Vacuum | Affordable Robotic, Automatic Vacuum with LIDAR – Wyze Labs, Inc -](#)



Meet the robot vacuums



Lives in SoCal



Lives in
New Mexico



Rosie lives in
Illinois



Herman lives in
Oklahoma

GE Smart Washing Machine - \$898.99

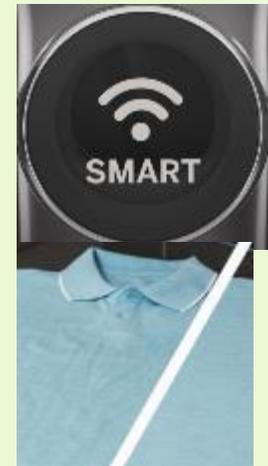
- Meet Sudsy
- Alexa & Hey Google
- SmartDispense Technology
- Start, stop and monitor your laundry from anywhere



- [GE 4.8 Cu Ft High-Efficiency Stackable Smart Front Load Washer w/ UltraFresh Vent, Microban Antimicrobial & SmartDispense Satin Nickel GFW650SPNSN - Best Buy](#)

GE Smart Electric Dryer - \$899.99

- Meet Bounce
- Alexa & Hey Google
- Signals when clothes are correct dampness for ironing
- Alert when something is stuck in vent
- Wrinkle care – extends tumble without heat



- [GE Profile 7.4 cu. ft. Smart White Electric Dryer with Sanitize Cycle and Sensor Dry, ENERGY STAR PTD60EBSRWS - The Home Depot](#)

Sudsy & Bounce at Bill's house

- The happy duo live next to the kitchen





"I may be a washing machine with the latest technology, but I'm not equipped to wash your dishes."

Masterbuilt Bluetooth Digital Electric Smoker with Broiler - \$388.88

- Bluetooth Smart technology allows you to
- Control temperature Lighting
- Monitor meat temperature
- Power smoker on or off



- [Amazon.com : Masterbuilt MB20073519 Bluetooth Digital Electric Smoker with Broiler, 30 inch, Black : Patio, Lawn & Garden](https://www.amazon.com/dp/B000000000)

Take your kitchen outside – Traeger Wood Pellet Grill - \$1599.95



Mr. Smokey





Standalone Wi-Fi appliances

- Selecting devices by different manufacturers might require multiple apps to control everything.
- Unfortunately, the standards for many devices do not work together.
- Networks created with many different devices leaves you with many vulnerabilities that can possibly bring your system down.



Routers are the key to your security

- Most Internet of Things (IoT) devices connect to the Internet through 'Wi-Fi' or 'wired ethernet' connection via a router
- Routers have 'built-in firewalls' to minimize intrusion
- Rename your router
- Change default username and password
- Use a strong, unique password or passphrase
- Use strong encryption for Wi-Fi – at least WPA2



Routers are the key to your security

- Keep your network router software / firmware up to date
- Reboot it regularly
- Use a separate Wi-Fi network for your devices
- Set up and use a guest network if your Wi-Fi router supports it



Security

- Read and understand privacy policies
- Change default privacy and security settings, as necessary
- Turn on two-factor authentication for your device accounts
- Worried about Alexa and your Google Assistant listening to you?
- Turn them off



Graphics from

- Amazon
- Home Depot
- Spinn
- Wyze
- <https://www.housebeautiful.com/shopping/home-gadgets/g22826031/smart-kitchen-appliances/>
- The Joy of Tech cartoons