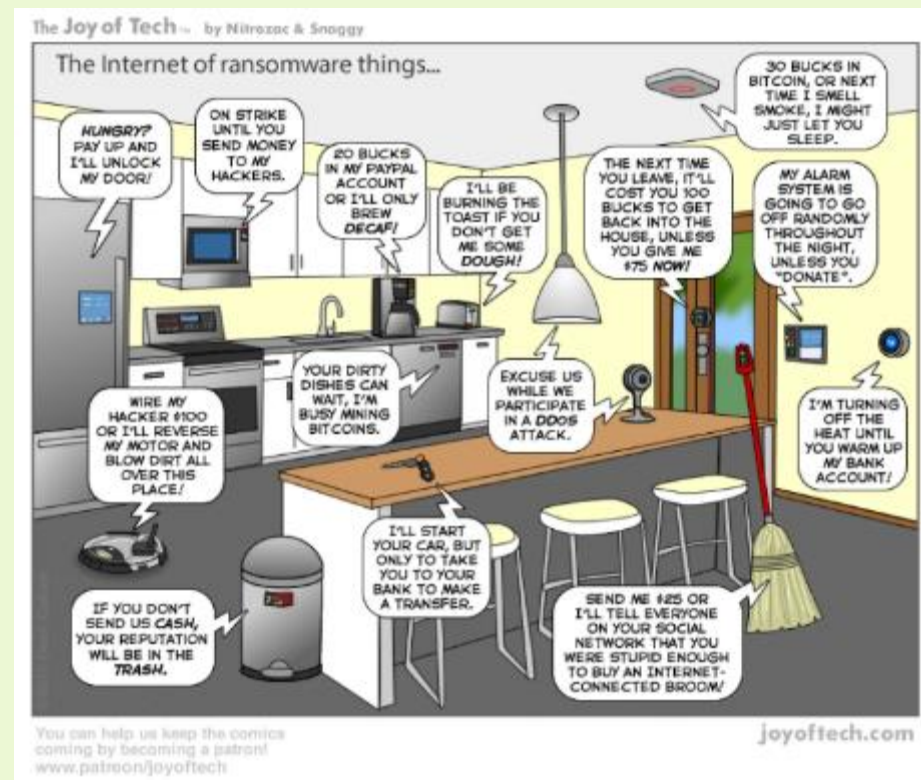





What's cooking? Home Automation in your Kitchen

Deerfield Beach Computer Club
April 21, 2023





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Judy Taylour

President, SCV Computer Club

APCUG Advisor, Regions 1, 5, 9, 10, and International

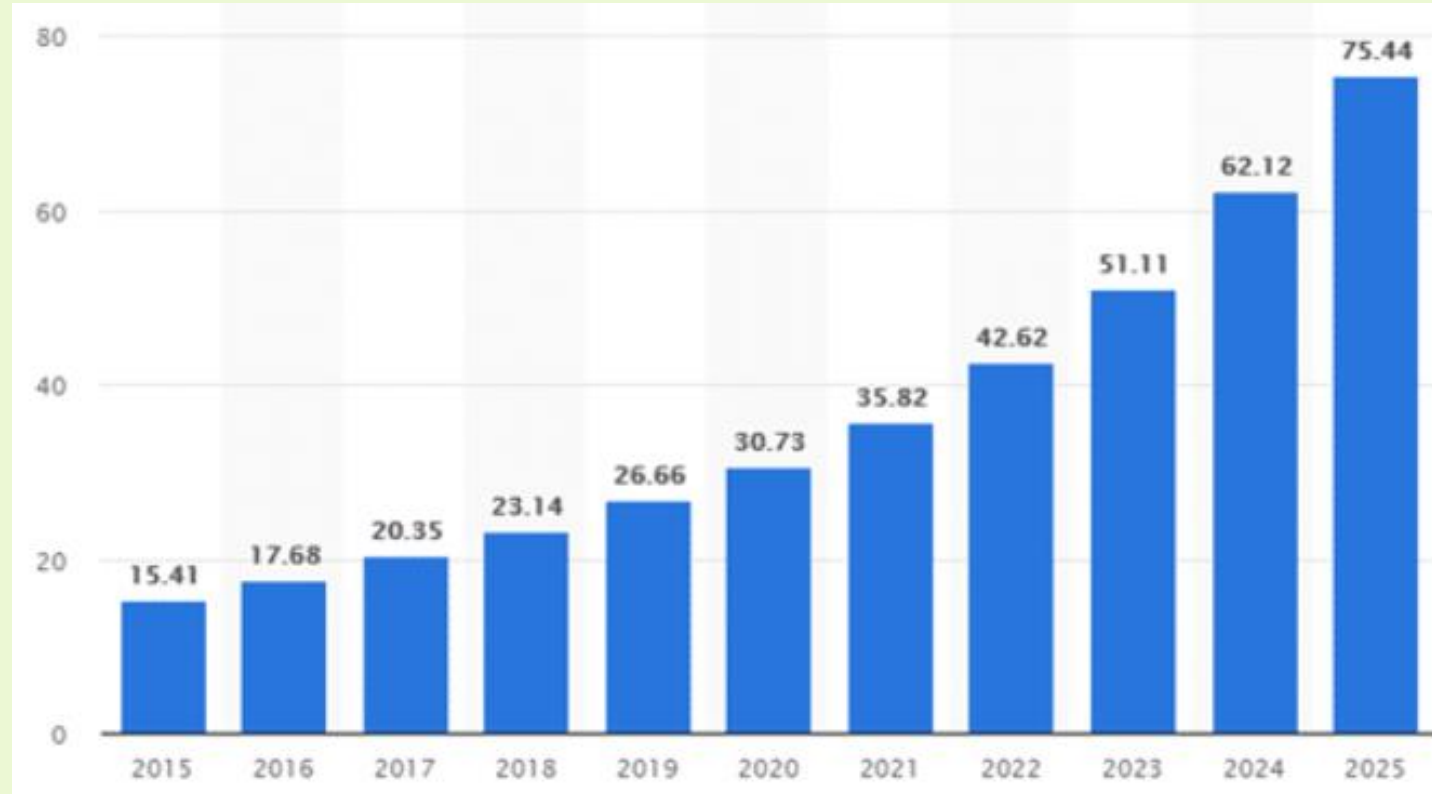
Member, APCUG Speakers Bureau


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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

SCREW BASES



10mm
Miniature Screw
(E10)



11mm
Miniature
Candelabra (E11)



12mm
Candelabra (E12)



14mm
European (E14)



17mm
Intermediate (E17)



26mm
Medium (E26)



26mm
Medium Skirted



27mm
European Medium
(E27)



39mm
Mogul (E39)

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



WeMo 43K-720-0224R Mini Smart Plug - \$54.00

- Control your appliances with Wi-Fi
- Voice control WeMo hands-free using your voice
- 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
- [Wemo 43K-720-0224R Mini Smart Plug Compatible with Alexa, Google Assistant & Apple HomeKit\(F7C063-CC\), 2-pack - - Amazon.com](#)



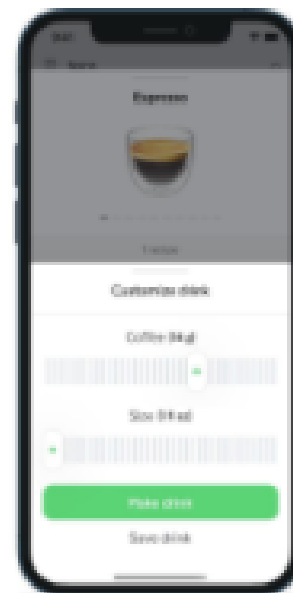
Smarter Smart iCoffee Brew Coffee Maker - \$144.89

- 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
- Programable: 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](#)

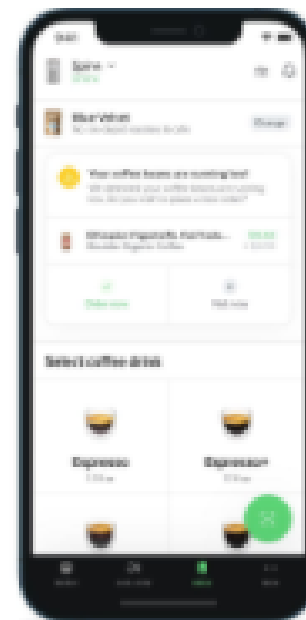


Spinn Smart Wi-Fi Coffee Maker - \$799.99

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



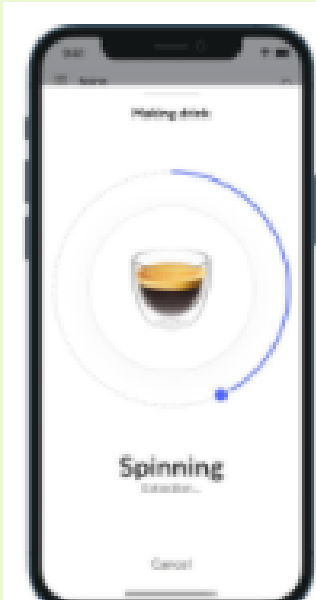
REMOTE CONTROL



AUTOMATIC ORDERING



INTELLIGENT ALERTS



MACHINE STATUS

- Coffee Maker & Coffee Beans Market Place - Spinn

Smarter Electric iKettle - \$99.99

- Alexa, Google Assistant, and IFTTT
- Control Remotely with the free, easy-to-use Smarter app or manually with the boil button on the base
- Connect with other smart home devices using open third-party integration
- Choose your beverage
 - Green tea 80°C, Oolong tea 90°C, coffee 95°C



- [Amazon.com: Smarter SMKET01-US Electric iKettle, Silver: Home & Kitchen](https://www.amazon.com/dp/B075111111)

Ember Temperature Control Smart Mug - \$99.99

- 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
- 1.5-hr 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- \$369.80

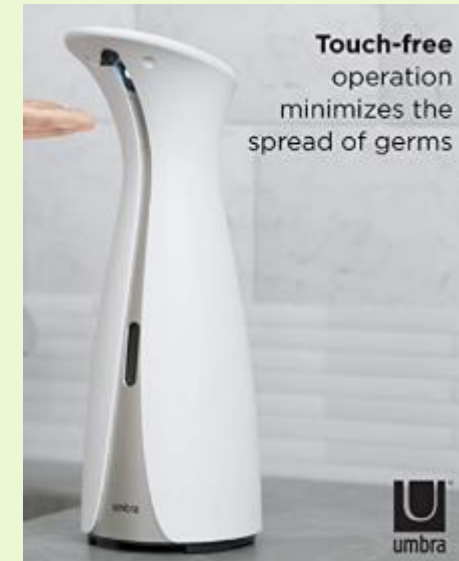
Bartesian Premium Cocktail and Margarita Machine for the Home Bar

- 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 - \$44.99

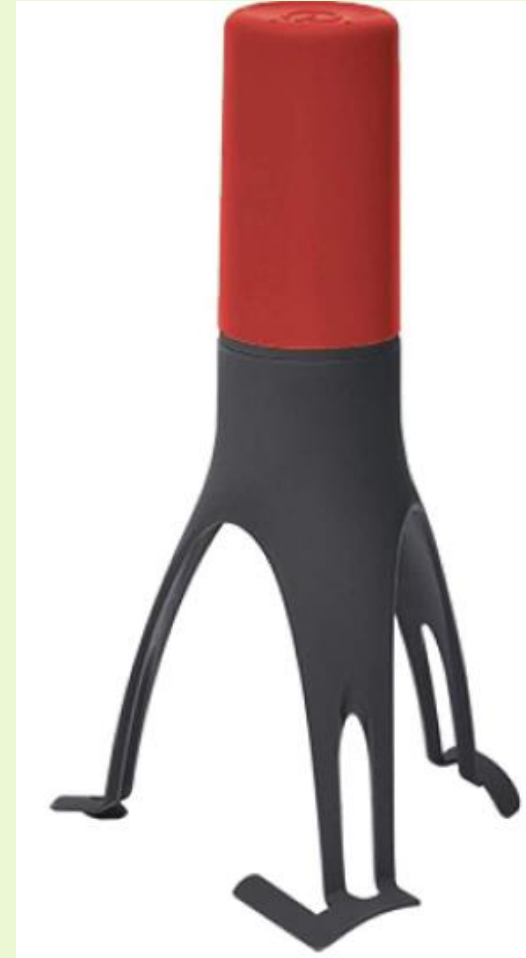
- Touchless, Hands Free Pump for Kitchen or Bathroom
- 8.5 oz liquid hand soap, dish soap or sanitizer dispenser
- Dispenses soap or sanitizer in 0.2 seconds



- [Amazon.com: Umbra Otto Automatic Soap Dispenser Touchless, Hands Free Pump for Kitchen or Bathroom, Regular, White/Gray : Home & Kitchen](https://www.amazon.com/Umbra-Otto-Automatic-Soap-Dispenser/dp/B00006H000)

Utensil Stirr Automatic Pan Stirrer - \$36.95

- LED lights to indicate speed
- Moves forward and backward during operation
- LED lights to indicate speed
- Moves forward and backward during operation
- Battery operated
- [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 ... \$134.99

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-Wifi-6-Quart-Multi-use-Electric-Pressure-Cooker-Yogurt-Cake-Maker-Sauté-Steamer-and-Warmer-Silver-Home-Kitchen/dp/B078K38634)

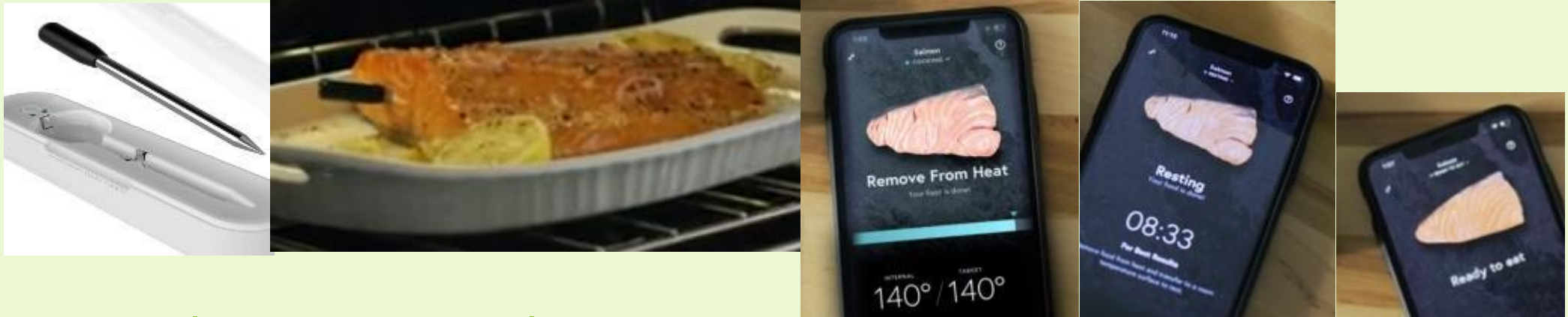
Revolution InstaGLO™ R180 Toaster - \$399.95

- 60+ digital settings
- Choose bread, bagel, waffle, English muffin or toaster pastry
- Smart sensors customize 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/Yummly-Smart-Meat-Thermometer-Wireless-Bluetooth-Connectivity/dp/B07K1K1K1K)

COSORI Smart Wi-Fi Air Fryer - \$139.99

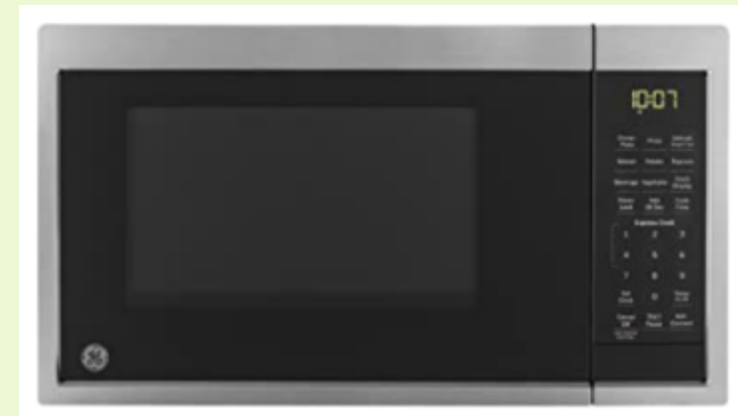
- Relax on your couch VeSync notifications
- Three ways to control
 - Directly from the display
 - Remotely through the VeSync app
 - With Alexa and Google's Assistant
- Mark your favorite recipes
- View your recipe history
- Create and save your own custom recipes
- [Amazon.com: COSORI Smart WiFi Air 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... \$143.99

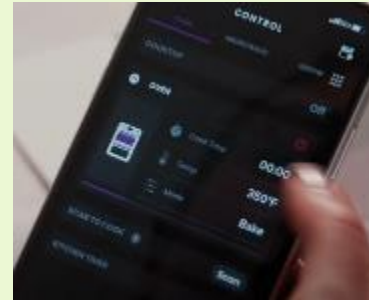
- 0.9 cubic feet / 900 watts
- Works with Google Assistant and Alexa
- Use your voice to operate your microwave from any room in the house
- Scan-to-cook technology with manufacturer's bar code

[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 - \$1,795.00

- 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.youtube.com/watch?v=rzWHknDt-Ck>



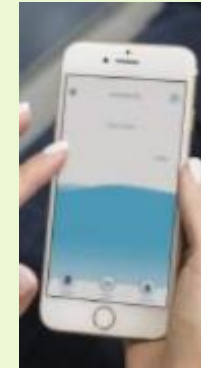
GE Profile™ 30" Gas Range - \$3,058.00

- 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- \$3,198.00

- 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 (on sale)

- 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 - \$649.00

- 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

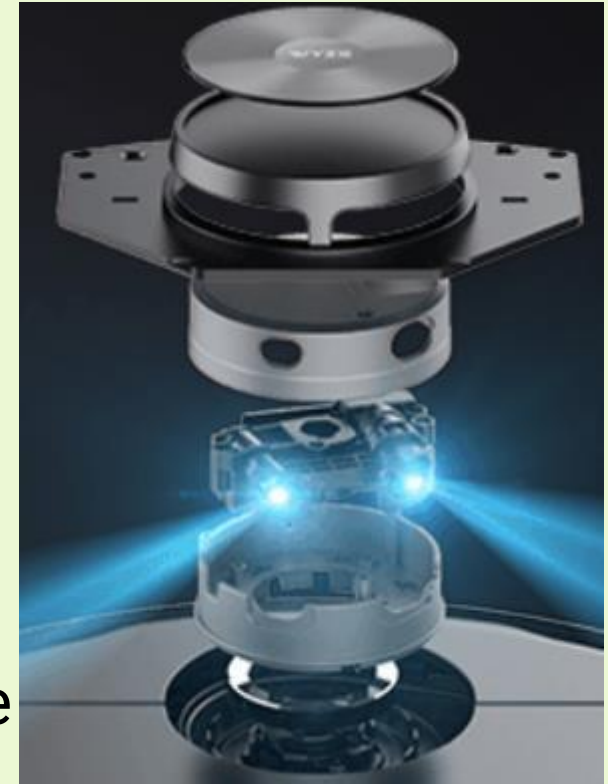


- [GE GXSHC40N Water Softener, 40,000 Grain \(Smart Home\), Gray - - Amazon.com](#)

Clean your kitchen – Wyze Robot Vacuum -

\$268.00

- 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 Wyze app.
- [Amazon.com - WYZE Lidar Mapping Robot Vacuum, Avoids Obstacles, Wi-Fi Connected, 110min Runtime, Works with Alexa, Multi-Surface Cleaning, Black -](#)



Meet the robot vacuums

Lives in SoCal



Lives in
New Mexico



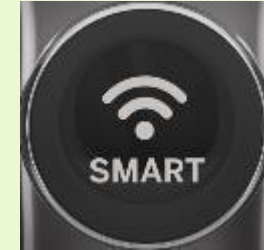
Rosie lives in
Illinois



Herman lives
in Oklahoma

GE Smart Washing Machine - \$949.99

- Meet Sudsy
- Alexa & Hey Google
- Start
- Stop
- Monitor
- Notifications



- 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 - \$999.99

- 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 7.8 Cu. Ft. 10-Cycle Electric Dryer White On White GFD55ESSNWW - Best Buy](#)



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](#)

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
- Best Buy
- Spinn
- Wyze
- <https://www.housebeautiful.com/shopping/home-gadgets/g22826031/smart-kitchen-appliances/>
- The Joy of Tech cartoon