# **Connected Homes** with AWS IoT: **Home Automation**





With 940M smart home devices expected to be shipped worldwide by 2022, the connected home market is booming. AWS IoT supports home automation, a key use case, by providing software and services that help you build innovative capabilities and deliver a new customer experience.



### Consumer needs:

Integrated devices that respond to commands quickly and accurately, with or without stable cloud connections, and get better with time.

## **Homes That Work for Consumers**

Home automation connects and integrates devices so homes work autonomously for consumers, while learning and improving over time.



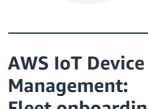
## **AWS IoT Products**

By considering a diverse range of devices and enabling capabilities such as device-based machine learning or cloud-based management and analytics, AWS IoT offers a holistic approach to creating home automation products and services.













**FreeRTOS: Operating** system for microcontrollers

Amazon

**Gateway to bring** cloud capabilities to the edge

**AWS Greengrass:** 

connectivity and messaging

**AWS IoT Core:** 

**Secure device** 

Fleet onboarding, management, and software updates

audit and protection

**AWS IoT Device** 

**Defender: Fleet** 

**Analytics: Data** analytics and intelligence

**AWS IoT** 

### **Innovating Home Automation** Through the IoT suite, AWS provides the necessary building blocks to

optimize what devices and the cloud can do.

# Innovation on the device



connectivity libraries with a tiny memory footprint for microcontroller-based devices

Built-in connectivity: Cloud



operations without cloud

connectivity, and synchronized data

once connections restore Innovation in the cloud



encryption, authentication, and

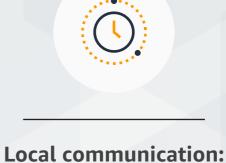
interfaces for key management



Over-the-air updates: Remote

security updates, bug fixes, and

firmware updates



Near-real time responses to

local events while maintaining

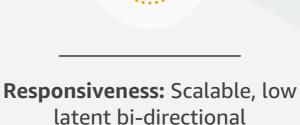
storage in the cloud



communication: Supported

connectivity with numerous

communication protocols and program options to keep devices "listening" for long periods



communication accessible in

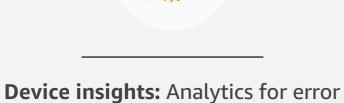
many global regions



organization, and monitoring,

creating a real-time fleet index with

remote management capabilities



logs, troubleshooting, predictive

maintenance, and customer insights

**AWS Home Automation in Action** 



custom, in-house infrastructure



**AWS IoT Device** Management, AWS IoT **Device Defender, and AWS IoT Analytics once** devices are connected

operation—even if cloud connection is lost—for lighting systems, TVs, and Echo from AWS Greengrass on a home gateway

AWS IoT gives you the tools to build responsive, secure, and intelligent devices that get better with time and improve

Learn more about Home **Automation with IoT** 

consumers' lives.