



CONNECTING OUR HOMES TO AN AUTONOMOUS FUTURE

The Smart Home of the future is responsive, perceptive, and autonomous.

TRUTH IN UX

User experiences come first.

The R&D teams at Intel spent years on ethnographic research globally to understand real human needs and values.

1 EASE IN RUNNING THE HOME

Simplify tasks and chores, reduce stress, and save money.

2 PROVIDE PEACE OF MIND

Reduce anxiety, know what's going on, and be assured of loved ones' well-being.

3 ENRICH DAILY LIFE

Spend time with others, monitor health and wellness, be entertained and informed.

EFFORTLESS DIGITAL EXPERIENCE

The number of devices in the home is growing exponentially. Consumers demand flawless, high-quality experiences with every device and connected activity they bring into their lives—from virtual reality and immersive PC gaming to 4K streaming and more. To provide this, homes need faster, smarter, and more secure connections.

35+

CONNECTED DEVICES
IN THE HOME
BY 2020

GAIN INSIGHT FROM DATA

THE TRULY HUMAN HOME

Advanced artificial intelligence and computing will allow connected devices in homes to operate as an extension of ourselves, analyzing how people organically engage and interact with their surroundings. Homes will no longer be just a roof over our heads but will serve as our eyes and ears to learn our contexts and know what we need, before we even ask for it.

TECHNOLOGIES BRINGING THE SMART HOME FORWARD

CONNECTIVITY

Trusted and effortless smart home experiences start with faster, smarter, and more secure home networks — the nervous system of the home, connecting and routing data seamlessly and effortlessly.

SPEECH

Spoken interfaces act as our ears and voices to recognize speech patterns and converse with us in natural language.

VISION

Vision processors and algorithms are the eyes of the home, able to detect objects, people, and events to understand what is happening in and around the home.

COGNITION

The ability to compute. To think. Having the brains that makes sense of the data generated from all the devices to understand context.

LOOKING AHEAD

The future smart homes will be responsive, perceptive, and autonomous to act as extensions of ourselves.

CONNECTIVITY

Connectivity will be as reliable, and as necessary, as any home utility.

SPEECH

Homes can differentiate audio inputs and understand which sounds are nonalarming — glass breaking in the kitchen — and which anomalies should trigger an alert and initiate activity — glass breaking from a window.

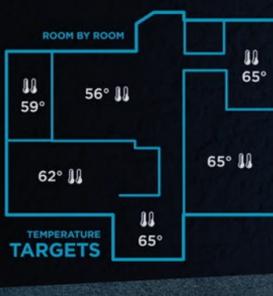
VISION

With facial recognition at the edge, homes know the person at the door and whether to let them in or notify a homeowner.

COGNITION

Homes can perceive an ad-hoc trigger, like a calendar entry for "airline reservations" and automatically turn on vacation mode to keep the home secure and efficient.

WEEKDAY
WEEKEND DAY
SLEEP
VACATION



FUTURE PROOF

The future of the smart home needs to be perceptive, responsive, and autonomous in order to complete the radical shift of smart in the home.

1 HOME CONNECTIVITY REIMAGINED

Home networks must evolve to keep pace with a growing number of devices and connected activities in the home. Always available, pervasive, and secure whole-home connectivity will enable amazing new home experiences.

2 DATA DELUGE

Smart homes will traffic in terabytes of data. With the growth of artificial intelligence, machine learning, and natural language processing, smart home devices will continue to learn and improve, eventually automating many of the tasks of running the home, provide peace of mind and enriching daily life.

3 INTEROPERABLE PLATFORMS

As more and more devices bring about new ways for consumers to interact with technology and the world around them, they must be able to work together.

WE KNOW THE FUTURE BECAUSE WE'RE BUILDING IT

Intel is creating the foundational building blocks that break down the barriers to smart home adoption and enable technology in the home to become increasingly perceptive, responsive, and autonomous.

INTEL CAN HELP YOU GO TO MARKET FASTER

PURPOSE-BUILT COMPUTING

Silicon roadmaps with aligned technologies support all device types in the home.

DEVICE ADVOCACY

Go to market faster with validated reference design.

INNOVATION SURGE

Scaling innovation in the home is driven by partners collaborating within the expanding ecosystem.

Learn more at [intel.com/smarthome](https://www.intel.com/smarthome)



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