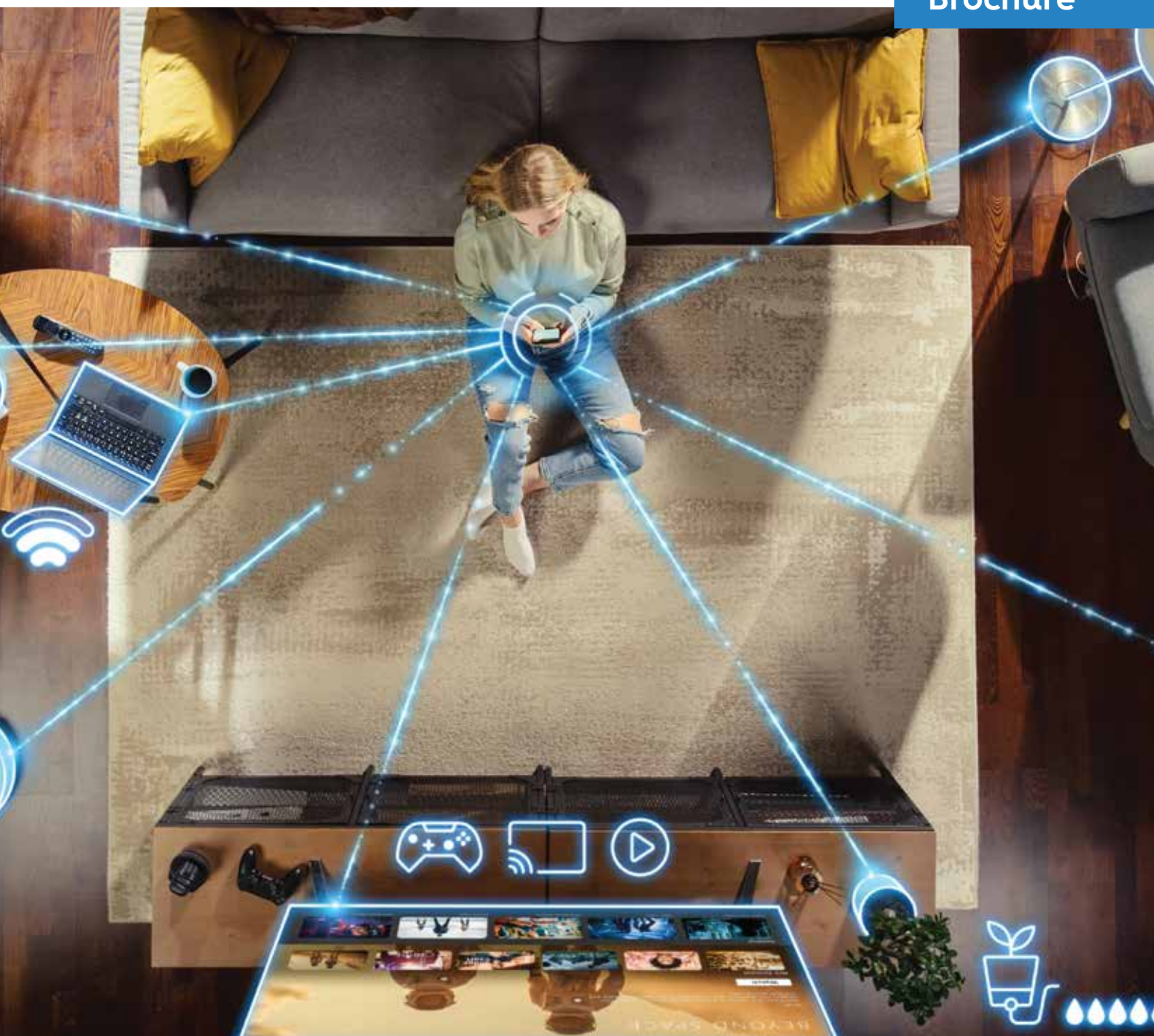


Cognitive Home

Powering the next generation of home intelligence

Brochure



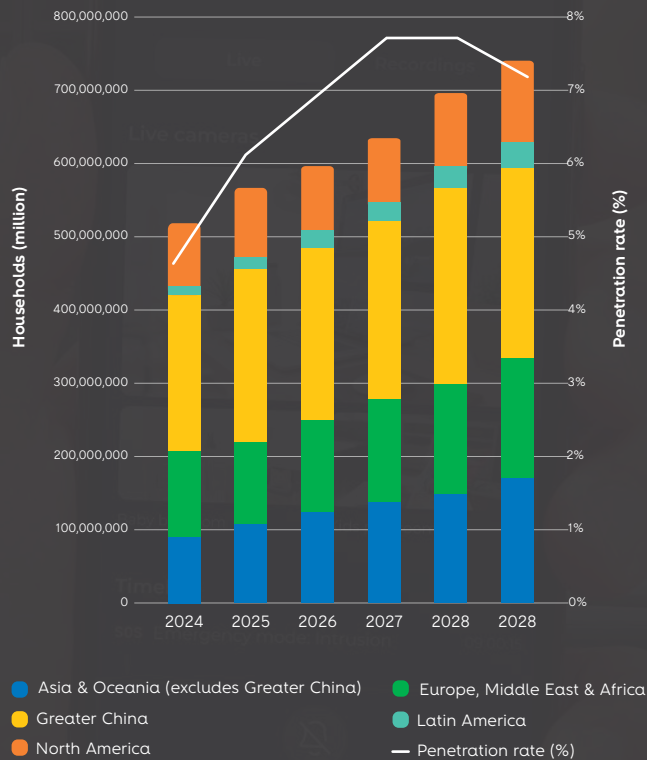
Shifting towards proactive home environments

Move beyond basic home automation into proactive, context-aware intelligence with Cognitive Home. A white-label, AI-driven home intelligence platform designed for companies looking to unlock high-margin B2B2C opportunities and deliver next-generation value-added services.

Cognitive Home introduces autonomous AI agents that perceive household behaviors, learn routines, and adapt environment conditions automatically covering connectivity, energy, security, and care services. By embedding artificial intelligence into the home gateway and connected ecosystem, Cognitive Home transforms traditional infrastructure into a interoperable service hub, boosting ARPU, reducing churn, and creating lasting differentiation.

While optimized for residential households, the platform seamlessly scales to Intelligent Offices and Cognitive Buildings. As consumer expectations shift toward zero-touch experiences, Cognitive Home anchors your brand at the center of the modern living ecosystem.

Worldwide connected home penetration forecast 2024-29, installed base by region



Source: Omdia

Powering the next era of connected living



White-label solution

Customize UI/UX look and feel, brand identity, OSS/BSS integrations, and premium feature tiers to match your commercial strategy.



Market-oriented delivery

Flexible Home Intelligence as a Service delivery model backed by carrier-grade SLAs, allowing providers to focus on go-to-market execution.



Hub-free

Leverage advanced Fiber Gateways with built-in Matter Controller support to eliminate separate hardware purchase and deployment costs.



Open device ecosystem

Access a growing ecosystem of Matter-enabled devices from different vendors, allowing operators and customers to build smart home experiences without being tied to a specific brand.



One mobile app rules it all

Offer a single, intuitive app to manage one unified interface, along with a set of automations and centralized access to all kinds of events and capabilities.

benefits

The game-changing advantages

Cognitive Home is self-sustainable, interoperating with all major smart home ecosystems, including Google Home, Alexa, and Apple HomeKit. It leverages some critical assets to differentiate itself from other Smart Home service solutions, such as...



Gateway-centric intelligence

Hosted directly on any type of Fiber Gateways and CPE devices with native Matter Controller support, eliminating the need of complex setup.



Autonomous AI agents and behavioral learning

Enhance manual rules with proactive AI agents that analyze real-time context, learn family routines, and take preemptive action before emergencies or inefficiencies occur.



Your customers' privacy assured

Cognitive Home solutions does not need to manage end-users' identity databases by interfacing directly with operator systems, ensuring strict compliance with local data privacy regulations without storing sensitive user identities externally.



Unified lifecycle and device control

Solution that unifies end-to-end lifecycle control with predictive intelligence to stop disruptions before they start and resolve issues remotely before they require on-site intervention.



Built around your business needs

Deploy the full ecosystem or select only the elements you need, from software platforms to devices and CPEs. Tailor the solution to your business requirements and evolve it as your needs grow, regardless of your existing infrastructure.

key differentiators



Operational efficiency at scale

Enterprise-ready platform with centralized lifecycle management, remote diagnostics, and scalable operational processes that improve efficiency, reduce support costs, and simplify service delivery.



Open ecosystem interoperability

Matter-based architecture combined with support for multiple connectivity technologies protects investments, avoids vendor lock-in and enables seamless integration across devices and ecosystems.



Households

Proactive living with enhanced comfort, safety, and peace of mind.



Offices

Energy optimization, access control, and connectivity for SOHO/SME spaces.



Buildings

Environmental monitoring, occupancy intelligence, and central management.

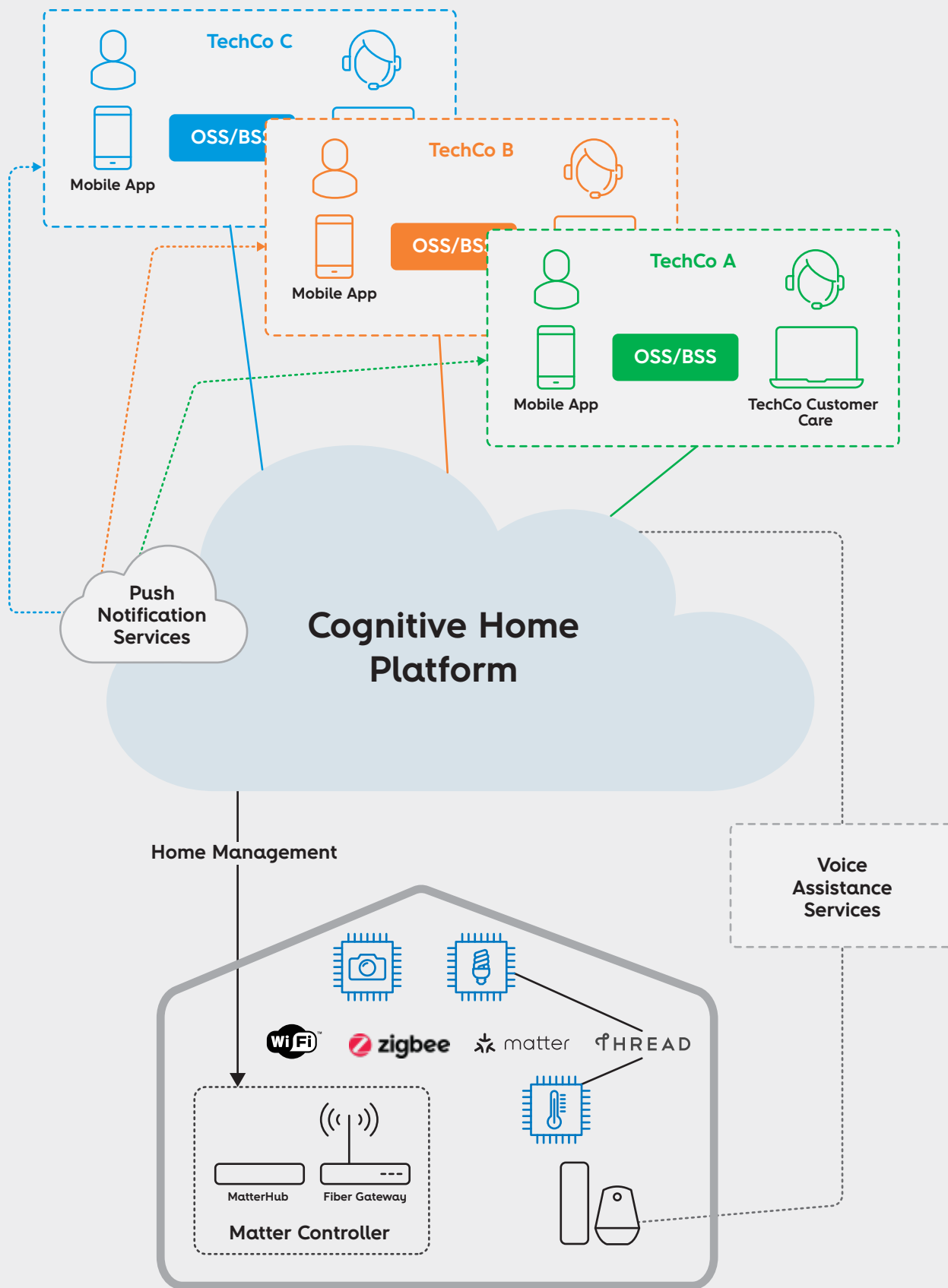
who is it for

An in-depth look at Cognitive Home

The Cognitive Home system is built upon a microservices-oriented architecture applied in an “as-a-service”. It can be deployed on public or private cloud infrastructures and supports a multi-tenant operating model, allowing sharing of the same platform instance while maintaining logical isolation. Tenants can be distributed across different geographical regions to optimize service delivery, address data residency requirements, and ensure regulatory compliance. The platform is also designed with loose coupling to external systems, particularly Identity Management and Provisioning platforms, enabling simplified integration and operational flexibility.

the architecture





Discover Cognitive Home

Powered by contextual AI engines, edge processing, and native Matter, Zigbee, Thread, and Z-Wave compatibility, Cognitive Home transforms standard broadband CPEs and connected devices into an autonomous living system. Explore the core capabilities driving proactive living for households and businesses alike:



Proactive AI behavior engine

Contextual routine learning

AI agents continuously perceive household activity patterns, light usage, presence, and occupancy to build dynamic behavioral baselines.

Autonomous decision-making

Proactively executes climate adjustments, lighting shifts, and energy conservation routines in response to real-time context, based on house routines.

Intelligent anomaly detection

Instantly recognizes deviations from normal patterns (e.g., unexpected night movement, prolonged inactivity for seniors).



Gateway-embedded Matter architecture

Native protocols

Pre-integrated into Fiber Gateways and advanced CPEs, removing the need for third-party physical hubs or proprietary bridges.

Multi-brand device interoperability

Seamlessly binds, provisions, and manages thousands of certified accessories (switches, sensors, lights, thermostats, locks) out of the box.

Zero-touch onboarding

Effortless setup and automated network handshakes for friction-free end-user deployment.

main features



Discover Cognitive Home



Complete home management

Centralized experience hub

A single, intuitive white-label mobile app (iOS / Android) that brings together automations, network health, risk alerts, and notifications of multiple homes.

Natural language and Generative AI assistance

Conversational interactions for status checks, summary reports, and intuitive preference management.

Role-based family profiles

Customized access levels and personalized dashboards for different household members or office managers.



Risk perception and safety measures

Holistic perimeter and environmental protection

Real-time monitoring for intrusion, door/window state, water leaks, gas leaks, and smoke.

Automated escalation protocol

Multi-channel alert delivery via instant push notifications, SMS broadcasts, and automated emergency voice calls to designated contacts.

Context-aware visual verification

Integrates camera snapshots and cloud event recordings during security events while preserving everyday privacy.



AI-driven security intelligence

AI-powered threat assessment

Correlates events, behaviors, and environmental context to identify real threats, minimizing alert fatigue and improving situational awareness.

Intelligent access governance

Combines smart access controls and AI-powered verification to securely manage access, deliveries, and service providers through flexible, context-aware permissions.

Behavioral detection

Detects suspicious loitering, unusual trajectories, masked individuals and abnormal activity patterns by correlating video analytics, time-of-day context and IoT sensor data. everyday privacy.



Connectivity

This pack is a crucial differentiator by leveraging the FiberGW companion features and associated complete control of the Wi-Fi 7 home network with a set of functionalities that includes an outstanding experience, including zero-touch devices setup, prevention of connectivity issues and a protected home network from cyberattacks.



Comfort

Includes a comprehensive set of low-cost devices that are easy to install and set up using the mobile App, including smart lights, smart plugs, and IP Cameras.



Security

Delivers a proactive security experience by combining video surveillance, IoT sensing, and AI-powered contextual awareness. Real-time alerts through push notifications, SMS, and voice calls ensure rapid response, while Premium Cloud Video Storage and intelligent event analysis provide visual evidence and actionable insights for informed decision-making.



Energy

Designed to enable energy consumption savings at home and reduce, in general, the household carbon foot print. It includes an energy dashboard that displays energy consumption and production information as well as a set of advanced features to optimize energy management, such as automating the start and stop of highly energy-consuming activities according to the most convenient and cheapest time of the day.



Entertainment

Allows the management of entertainment services in the home, including STBs and associated remote control devices and makes them more fun by playing music or video in Scenarios.



Family Care

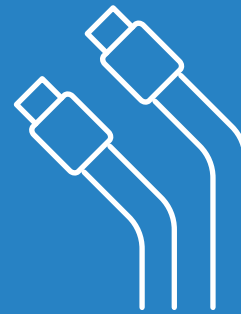
Includes continuous, real-time care for all household members, with a particular focus on the elderly and children, through privacy-first ambient sensing and routine monitoring using motion sensors and the existing Wi-Fi network. The solution detects deviations in daily patterns and provides immediate alerts to caregivers, supporting active safety and medical use cases, including location and area security monitoring, teleconsultations, panic buttons, and fall detection.

use cases



Virtual Concierge Assistant

By learning the users' habits, this virtual assistant can effectively anticipate needs and guarantee that the home adapts itself according to them, creating a more comfortable and convenient living environment. Just imagine a pre-heated oven or a thermostat perfectly adjusted to the weather, all without lifting a finger.



Seamless connectivity

Connectivity setup that features frictionless account and service provisioning that allows continuous monitoring and enhancement of Wi-Fi coverage. Improves internet speed with detailed in-app diagnostics and recommendations for the optimal placement of extenders. Cognitive Home automatically detects the Fiber Gateway once powered on and provides a step-by-step guided setup with prompts for cable connections and activation, minimizing the need to provide new installations or replacements with local technical assistance.



Parental control

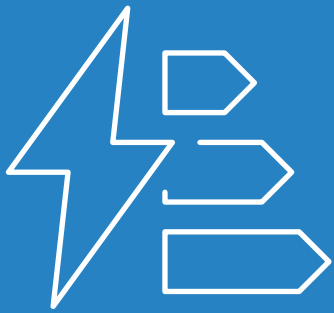
Give parents peace of mind by helping them manage their children's access to the digital world. Set specific start and end times for internet use, and choose which areas of the household are covered based on the time of day, for example, bedtime, study time, or family time. For special occasions, create configurations that make it easy to switch between different access patterns.



Reliable security system

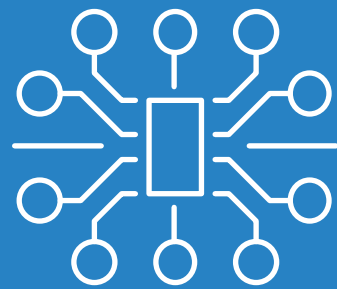
Ensure non-stop protection for homeowners with intelligent security powered by AI. The system accurately recognizes human presence and flags suspicious activity like loitering or abnormal movement using a coordinated network of sensors, sirens, and keypads. Designed for maximum resilience, it operates reliably offline keeping the home secure even without electricity or an active internet connection.

use cases



Intelligent energy management

Maximize savings and optimize usage based on energy efficiency goals. The Eco Mode solution provides real-time monitoring of any home appliance to better understand the household's monthly energy consumption and the associated bill. At the same time, identify patterns and get notified with appliances or systems are consuming above a certain threshold.



Automation for convenience and comfort

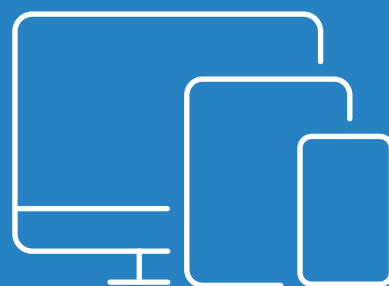
Elevate daily well-being with a connected home that anticipates customers needs while protecting their privacy. The Comfort service effortlessly orchestrates rooms, automations, and alerts, while discreet ambient sensors quietly monitor routines and flag anomalies. With the Set-Top Box serving as a visual hub, the user can check who's at the door, adjust lighting, and align the living space with their entertainment mood, all from the comfort of the sofa.

use cases



Living longer at home (aging in place)

This solution can actively monitor daily activities to ensure healthy routines are maintained, sending alerts when people forget to engage in certain activities or anomalies are detected, such as falls. This way, it's possible to assist elderly or disabled individuals through smart displays that offer two-way communications, emergency buttons, and hands-free controls.



Entertainment

Seamlessly integrating voice control, this solution allows users to control their music experience with ease in different rooms, according to numerous contexts. Thanks to the scenario automation option, it's possible to wake up to the sound of a certain song or set the perfect ambiance for a movie night with the Home Theater and TV routines aspect.

contact us

Ready to join
the future?

Learn more





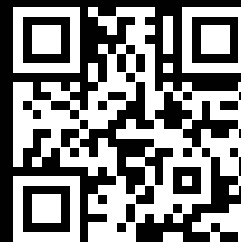
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