kody robots
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ODIGO

SMART ROBOT ASSISTANT

DESIGNED FOR HIGH-FOOTFALL VENUES



What Odigo Is

Odigo is a smart robot assistant for high-footfall commercial environments. It greets visitors, resolves their questions in their own language, escorts them physically to their destination, delivers advertising on two 32-inch screens while it moves, monitors the floor for hazards and incidents, and returns every data point it generates to a single central console.

1 Robot → **5** jobs running simultaneously.

Where a kiosk waits to be found and a wall screen reaches only whoever walks past it, Odigo moves through the space, bringing assistance to the visitor and advertising inventory to the shopper.



Key Features

Crowd-aware Obstacle Avoidance

Dual SLAM Navigation



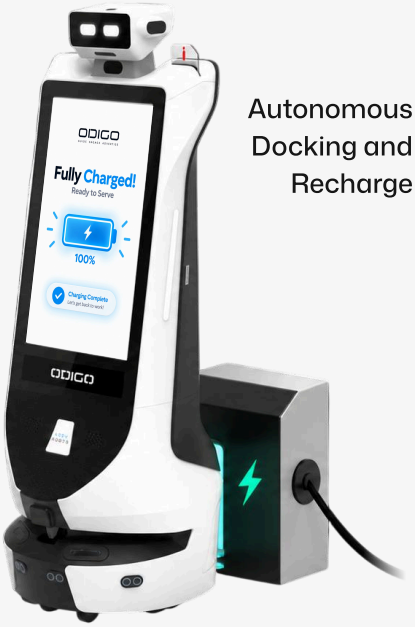
Geo-contextual Ad Targeting



Multilingual Voice and Touch Interaction



10+ Hour Battery Life



Autonomous Docking and Recharge

Smart Multi-stop Route Optimisation



Over-the-Air Fleet Updates



5 Things Odigo Does on the Floor

1. AI Concierge

Every visitor **gets an answer**, immediately, in their own language, **without an app.**

Odigo greets visitors on approach and detects the language they speak, **automatically**.



Query Resolution

- Opening hours, returns policy, stock availability and aisle location resolved end to end on the robot, without routing to a human
- Digital directory of products, services and amenities
- Service concierge menu covering returns and exchanges, order pickup, membership and customer service, each with a "guide me there" and an "I need help" action

Escalation and Staff Handoff

- One tap raises an instant Help Ticket capturing issue type, optional note, zone, location context and timestamp
- Ticket routed to the team's existing channel: WhatsApp, email or an existing ticketing tool*
- Idle-period announcements broadcast site-wide: closing time, product recalls, weather, parking alerts
- Urgent updates pushed to every unit across a site or estate in a single action.

Capture and Engagement

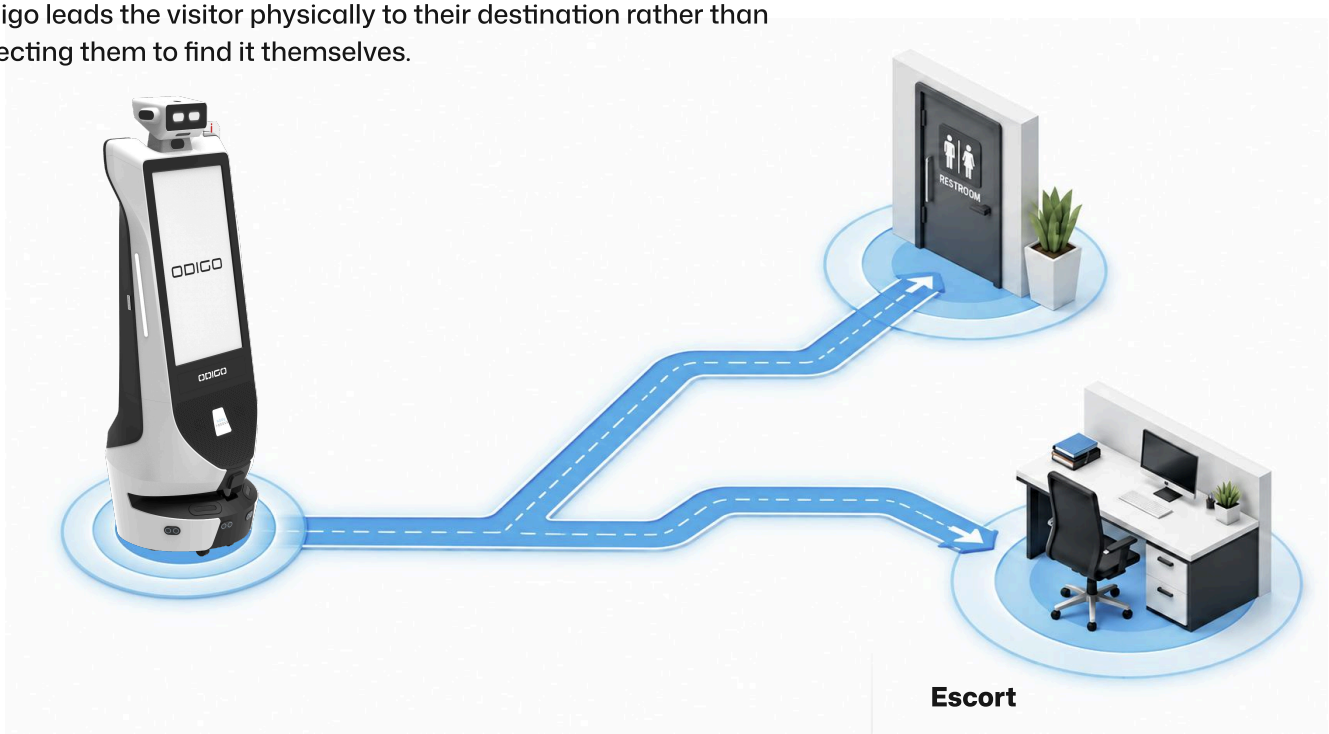
- Lead capture and QR flows for brochure downloads, forms and preference capture
- Loyalty and membership enrollment prompting
- On-screen quizzes, ratings and feedback capture
- Personalised greeting and offers for opted-in members recognised on entry*

Connected to Customer Systems

- Live inventory and in-transit stock check: whether an out-of-shelf item is in the back room, arriving, or at a nearby site*
- Live price and promotion check, including unit-price comparison across pack sizes*
- Substitution suggested at the moment a listed item is found out of stock*
- Service slot booking for consultations, demos, installations and counter appointments, with proactive ready alerts*
- Queue and wait-time display for service desks where a queue or token system exists*
- Customer's own conversational AI assistant hosted on the unit, connected to Odigo actions: show location, start escort, open a service flow*

2. Wayfinding and Escort

Odigo leads the visitor physically to their destination rather than directing them to find it themselves.



Finding

- Item finder returning aisle and zone location by voice or touch
- Amenity wayfinding: restroom, pharmacy, order pickup, optical, service desk, exit
- "You are here" orientation against the site map
- Top destinations surfaced on the home screen before the visitor asks

Escort

- Physical escort to destination across mapped zones and floors
- Configurable travel speed from slow escort pace in a crowd to efficient transit between zones

Multi-Stop and Guided Journeys

- Smart shopping list route: multiple items submitted by voice, text or photo, converted into a single optimised route with skip and reorder controls. Chilled, frozen and heavy items sequenced last*
- Guided tours with stop-based content delivered at each point of interest, with optional audio narration
- Discovery routing: Odigo proactively routes footfall past active sampling, demonstration and vendor experience zones
- Efficient Mode takes the fastest path. Discovery Mode takes the fuller one. The store configures which applies.

3. Advertising and Media Platform

Advertising inventory that travels to the shopper and reports back on what it did.



The Surface

- Dual 32-inch Full HD capacitive touchscreens, front and rear: two advertising faces per unit, each functioning simultaneously as an interaction point
- 7.9-inch top display for ambient branding and status
- Body LED customisable to brand or operational colour.

Measurement and Monetisation

- Proof-of-play logging: an auditable record of what played, where and when
- Tap and QR engagement signals that a fixed placement cannot produce
- Real-time ad-play and audience engagement analytics
- Partner and wallet module tracking performance, exposure, earnings and sales per advertising partner
- Retail media and ad-stack integration, posting campaign telemetry back for attribution against the customer's own measurement*
- Automated clearance and promotional creative generated from inventory tags against a fixed template, scoped to relevant sections*
- Proactive discovery flags surfacing new and rotating inventory relevant to a recognised, opted-in member*

Delivery

- Always-on advertising mode: daily offers, clearance, seasonal campaigns and service highlights displayed continuously during patrol, independent of any visitor interaction.
- "Deals Near You": section-specific offers driven in real time by where the unit is patrolling.
- Geo-contextual targeting by day, time and zone. The same screen carries different messages in different aisles and dayparts.
- Campaign scheduling by zone, route and individual point of interest.
- Different units can run different brands in different zones of the same site.
- Creative management and rotation across one unit or an entire fleet.
- Instant remote content push with no on-site reprogramming and no site visit required.
- Offline playback: content syncs locally and continues through a network interruption.
- Brand-sponsored interactive experiences triggered at a specific physical location.

4. AI Surveillance and Security

Mobile coverage that reaches the space between the fixed cameras.

Because Odigo is already moving through the floor, monitoring is a byproduct of normal patrol. Coverage extends into zones fixed cameras were never positioned to reach. Every detection class is configurable: enabled, scoped or disabled per site, in line with customer policy.



Detection

- Human detection classified as authorised, unauthorised or blacklisted
- Facial recognition against an administrator-managed list
- Weapon detection with live alerts
- Fight and altercation detection
- Incident detection with time-stamped evidence
- Unauthorised-access monitoring for controlled and restricted areas

Safety and Compliance

- Hazard scanning during patrol: spills, fallen products, blocked paths and obstructed exits
- Automatic help-ticket generation on hazard detection
- Compliance patrol logging blocked exits, missing signage and obstructed accessible paths with timestamped photographic evidence
- Theft and suspicious-activity alerts delivered to staff as assistive signals, with scope and rules set by the customer

Response and Evidence

- Emergency broadcast with two-way intercom: the operator speaks to and hears from people at the unit's location in real time
- Live alerts filterable by robot, camera, date and detection category
- Full incident logging with detection detail, classification, timestamp and supporting images
- Live video feed from connected robots and cameras to the central console
- Recording history searchable and reviewable by robot, camera and date
- Distributed lost-person and lost-child search: once a profile is reported, it pushes to every unit on site, and each unit scans while continuing normal operation

Customer Control

- Facial recognition and each individual detection class enabled or disabled per site
- Configurable data retention windows, whitelisting and access paths
- Granular permissions governing who can view recordings, recognition data, detection events and the intercom
- Recordings and biometric records held on customer-controlled infrastructure*
- Camera function is scope-limited and mode-specific by configuration

5. Retail Intelligence

The floor tells you what it needs, without anyone walking it.



Shelf and Stock

- Shelf availability and out-of-stock detection across scoped aisles and categories, calibrated to the store*
- Misplaced product detection: items appearing outside their expected shelf or section*
- Wrong SKU and incorrect facing indicators*
- Promotional and price label presence checks*
- All of the above combined into a single real-time exception-alert stream*

Floor Traffic and Insight

- Passive footfall and dwell analytics captured across all patrol activity, independent of any visitor interaction
- Zone traffic and demand hotspot mapping
- Queue depth detection at checkout and service counters, signalling a manager before customers leave
- High-intent zone identification and route performance analysis
- Top searches by time of day and day of week
- Insight generated from AI assistant interaction transcripts and submitted floor reports

The Platform Underneath

Autonomous Navigation Platform

Runs a full trading day on a live floor, without anyone minding it.



Sensing and Navigation

- AI-powered dual SLAM navigation combining laser and visual sensing. No floor markers, rails or beacons required, and no building re-fit
- 2D LiDAR: 270-degree scanning at up to 25 metres
- 3D structured-light depth cameras (3 units) fused with LiDAR for forward environment sensing
- 4 ultrasonic sensors for close-range, low, transparent and reflective obstacles
- Anti-fall sensing at stair edges, loading docks and level changes
- Crowd-aware obstacle avoidance: the unit slows and re-routes in a busy aisle rather than stopping

Mapping and Governance

- Site map built autonomously on deployment; localises itself to centimetre accuracy
- Multi-map and multi-floor support
- Points, routes and cruise paths defined centrally and assigned per unit
- Virtual walls and restricted zones keeping the unit clear of stockrooms, back-of-house, loading and forklift areas
- Configurable travel speed from 0.1 to 1.0 m/s (approx. 0.2 to 2.2 mph)

Endurance and Safety

- 10+ hours of continuous operation per charge, usage dependent
- Autonomous docking and charging: the unit returns, charges and resumes without staff intervention
- Emergency stop halts all functions immediately; rotate clockwise to release
- PIN-protected on-unit operator panel
- Core navigation and on-site functions run locally; connectivity required for remote dashboard access and connected services

Central Command and Fleet Management

One console. Every unit, every site, every permission.

Single centralised dashboard governing content, movement, users, devices and detection across the estate

Multi-site hierarchy from country and region down to individual site, agency and vendor. Built for multi-brand, franchise and agency-sold operating models

Fleet management with multiple units registered and controlled under one account

Central configuration of maps, routes, virtual walls, volume and travel speed per unit

Live status monitoring and video feeds across the fleet

Direct operator override of what a unit displays and where it goes

Remote monitoring and over-the-air updates: multi-site rollout with no local technical staff required at each location

User management and unit assignment per operator

Granular permissions controlling access to recordings, recognition data, AI detection, two-way communication and assigned units independently per user

Built-in ticketing and content management modules within the same console

Analytics and Reporting

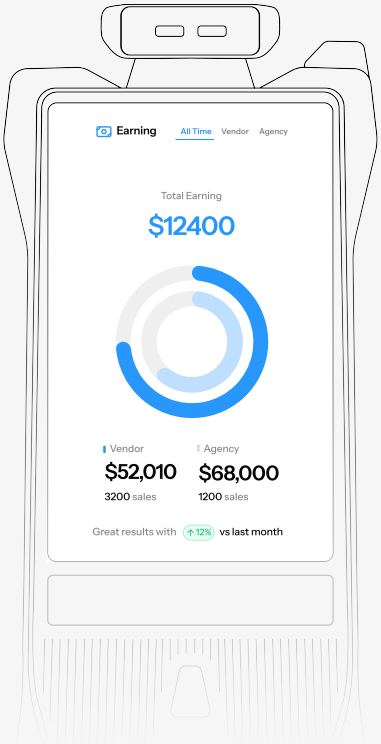
Everything Odigo does is measured. The measurement is exportable.

Every metric below is generated from Odigo's own logs and requires nothing from the customer's systems.

Visitor and Engagement

- Total touch and voice interactions by day and week
- Item searches, top searched items and categories, and search volume trends
- Popular destinations and services
- Language distribution across interactions
- Peak usage windows by time of day and day of week
- Navigation requests completed versus failed, and escort action taps
- Average time from request to arrival at destination





Campaign and Content

- Ad plays by zone, section and time
- Tap and QR engagement on offer cards
- Proof-of-play records available as an export



Operational

- Uptime and runtime: active hours and downtime windows
- Patrol coverage consistency and route completion
- Help ticket volume by issue type, time and zone
- Repeat issue hotspots

Output

- Dashboards filterable by unit, site, destination, category, month and year
- Filtered record export for downstream analysis in existing tools

Integration and Custom Development

Built to fit the stack you already run.

1. Android application layer supporting bespoke software modules on the standard hardware platform, without changes to the robotics

2. API integration developed to the engagement scope and to the customer's IT policy*

3. File-feed integration where API access is not preferred*

4. Inventory and point-of-sale integration for live stock, price & promotion lookup*

5. Booking and scheduling system integration*

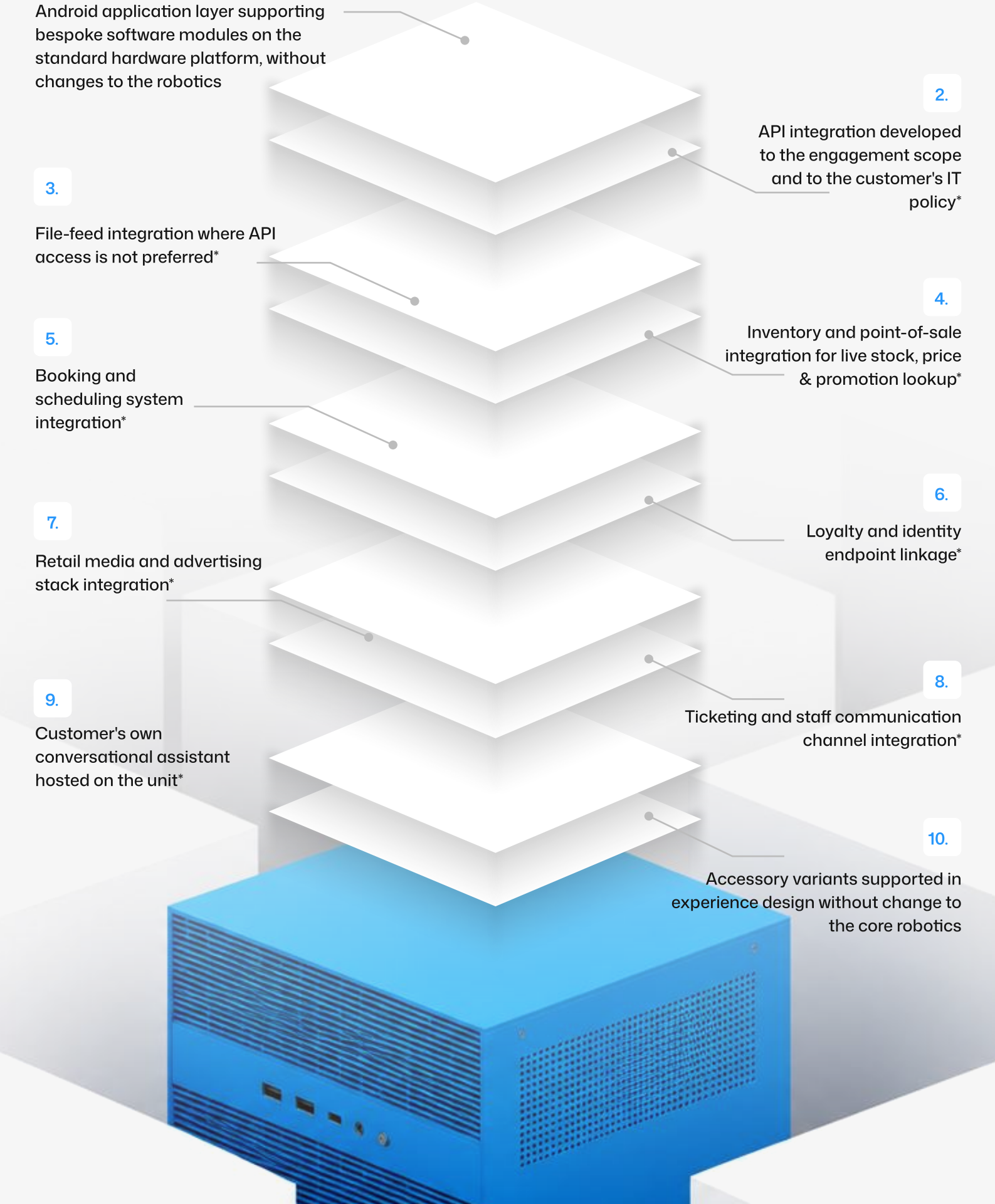
6. Loyalty and identity endpoint linkage*

7. Retail media and advertising stack integration*

8. Ticketing and staff communication channel integration*

9. Customer's own conversational assistant hosted on the unit*

10. Accessory variants supported in experience design without change to the core robotics



Where It Works

Maps, routes, content, detection scope and connected systems are configured per site. The same smart robot assistant operates as a grocery colleague in one building and a leasing host in the next.

Supermarkets and Grocery Stores



- Converts a spoken, typed or photographed shopping list into one optimised route, with heavy and frozen items last*
- Answers stock questions with live inventory*
- Suggests a substitute the moment an item is unavailable*
- Compares unit prices across pack sizes on screen*
- Flags shelf gaps, wrong facings and missing price labels during patrol*
- Detects queue build-up at checkout and signals before customers leave
- Delivers aisle-specific offers on both screens throughout the escort

Shopping Malls

- Converts a spoken, typed or photographed shopping list into one optimised route, with heavy and frozen items last*
- Answers stock questions with live inventory*
- Suggests a substitute the moment an item is unavailable*
- Compares unit prices across pack sizes on screen*
- Flags shelf gaps, wrong facings and missing price labels during patrol*
- Detects queue build-up at checkout and signals before customers leave
- Delivers aisle-specific offers on both screens throughout the escort



Airports and Transit Hubs



- Detects the visitor's language before they select one
- Escorts first-time flyers, families and reduced-mobility travellers
- Pushes disruption, weather and parking updates to every unit on site in one action
- Raises staff tickets with zone, context and timestamp attached
- Extends mobile monitoring coverage into concourse space fixed cameras do not reach
- Runs a lost-child search across every unit on site simultaneously

Car Showrooms

- Greets walk-in visitors when every salesperson is with another customer
- Answers specification, finance, service and hours questions without staff involvement
- Escorts the visitor to the model, with content and narration delivered at each vehicle
- Captures enquiries and brochure downloads by QR or on-screen form
- Books test drives and service slots against the existing scheduler*
- Reports dwell time per model zone
- Carries brand creative between visitor interactions



Real Estate and Mixed-Use Property



- Greets visitors and presents units, tenants and amenities on screen
- Runs guided tours with content delivered at every stop
- Books time with agents and captures visitor preferences and enquiry detail*
- Carries developer and tenant campaigns between tours
- Patrols after hours monitoring for incidents, hazards and unauthorised access
- Provides footfall and dwell data to support leasing conversations

Technical Specifications



Particulars	Details
Platform	Ubuntu 22.04
RAM CPU	16GB + Processor
Interactive System	Android 11
Android System	8 GB
Speaker	5W x4 units, 50Wx2 Dual Channel Amplifier
Connectivity	Wi-Fi Support (Dual-Band 2.4GHz & 5GHz)
Battery	Lithium-iron 25.6V / 100Ah (LIFePO4)
Charging	Automatic docking + Manual plug-in
Movement Speed	0.1 – 1 m/s (customizable)
Navigation	Laser + Visual SLAM + Obstacle Avoidance
Emergency Stop Switch	Immediate halt of all functions

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Powered by Kody Technolab Limited

Phone
+1 754 457 2089

Head Office
100SE, 3rd Avenue, Floor 10, Fort Lauderdale, FL 33394, United States

For more technical details check out our website

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