

Building Embodied-Al with IoT and Agentic-Al







Gizwits - China's Leading IoT Platform Company





- ☐ 370,000 IoT developers uses Gizwits SDK/APIs
- ☐ 30,000+ equipment manufacturer customers
- ☐ Including leading global equipment brands







- ☐ Gizwits is China's FIRST IoT Platform as a Service PaaS company (launched in 2010)
- ☐ Serving 30+ millon IoT devices in 200+ countries, from service clusters in Europe, US, China and South East Asia
- □ \$40+ million investment from leading VC funds and Qualcomm











Gokit5 - An open source embodied AI DEV-Kit





Open Source Hardware Design

Demonstrate how low-power & low-cost SOC wi-fi chipsets or GSM modules can used to build the world's smartest devices

Open Source Firmware

The firmware is open source, allowing developers to create more interesting functionalities, or even completely new applications

Integration with IoT Platform and Agentic Framework

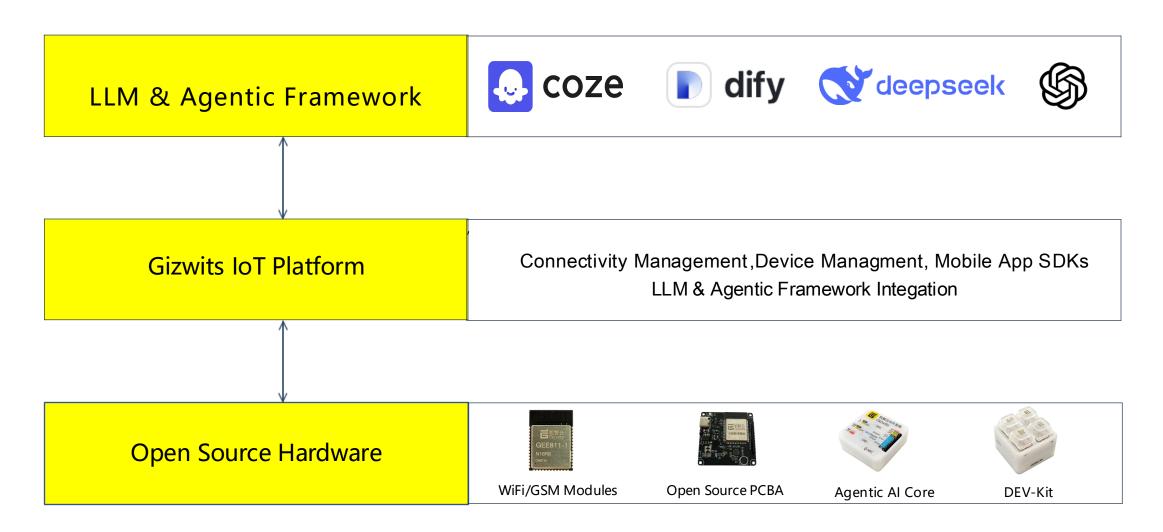
Gizwits platform allows for

- 1. IoT Device manangment: remote monitoring and control, OTA, etc.
- 2. Connectivity with LLM to perform multi-modal inference
- 3. Planning/Execution/Improvment with Agentic Framework



Where IoT and AI meet, Embodied AI Rises!

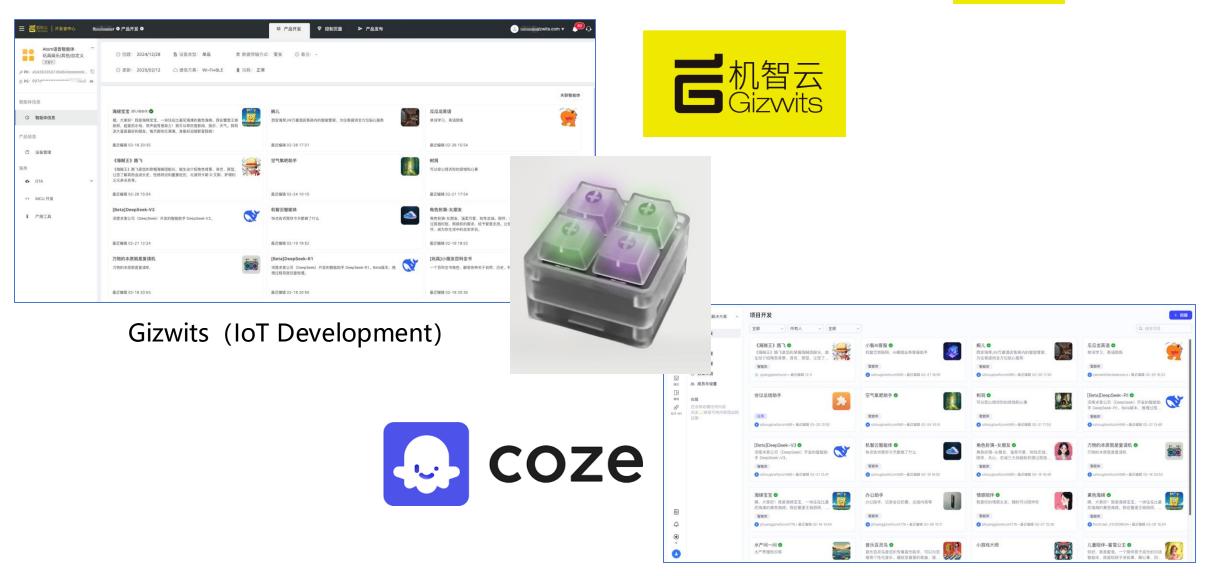




Seamless integration of Gizwits and Agentic Framew







Create embodied AI prototypes in minutes (with custom System Prompts and Workflows)











Case Study: Interactive Toys





DEMO - Can Smart Home finally be "Smart"

Scenario Description

- User is a computer engineer
- Overworked, and sleep deprived
- Marathon runner that works out regularly, but have not done so lately due to busy schedule
- Vision issues due to long daily screen time at work









Automatic planning and execution accross different brands and devices

Next-Generation Smart Home Assistant



Mission Driven Agent vs Task Driven Agent



Continuous

Engagement



From "Rule-based Execution" to "User Needs Fulfillment"

- Health care: Sleep quality monitoring \rightarrow Schedule suggestions \rightarrow Control curtains and lighting.
- Comfort assurance: Learning user preferences \rightarrow Dynamically optimizing the environment.
- Energy saving: Balancing comfort with energy consumption.

Purposeful Communications & User State Sensing

- Proactive care: Reminding users of sleep time via voice, and recommending sleep aids like music.
- Multimodal interaction fusion: Intention and emotion recognition → Adjusting interaction strategies.
- Intention recognition: Interpreting ambiguous commands.

Sensor Data as Multimodal Input for Trends Analysis

- Health indicators: Sleep duration statistics, eye-fatigue warnings, posture analysis, etc.
- Energy-saving progress: Monthly/annual energy-saving reports, automatic adjustment of energy-saving strategies.
- Cross-brand device synergy: data taken from multiple devices are taken into consideration

Self-planning and Self-Improvements

- Incorporating user feedback to continuously refine strategies.
- Continuously learning user behavior to build a family digital profile.
- Iterating user models to shift from general responses to personalized service.

Continuous Monitoring



Case Study: Health and Wellness



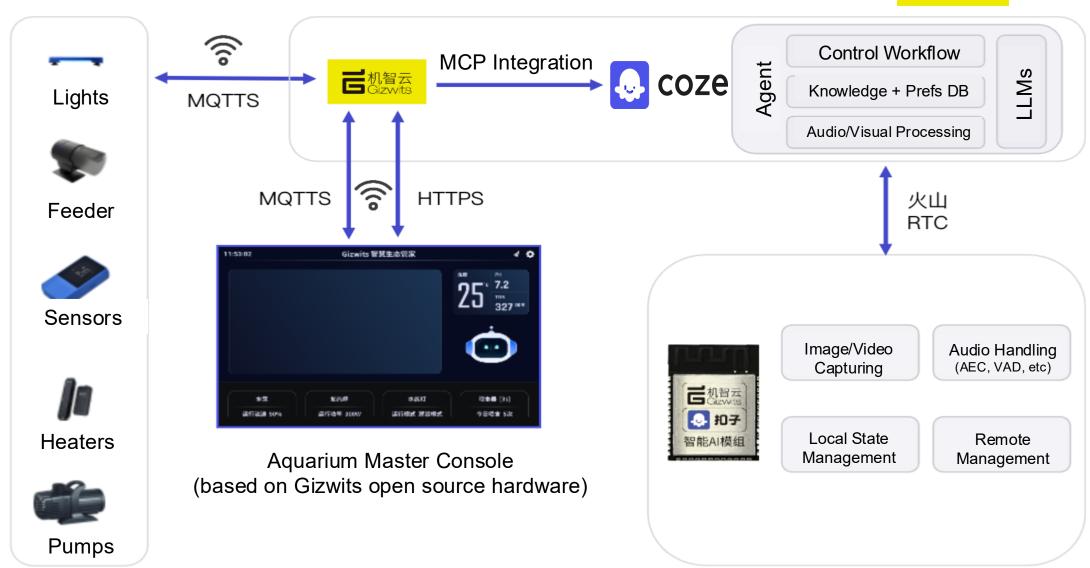






Case Study: Aquarium Master







Agentic-Al as the driving force for the next stage of IoT Evolution



Existing Problems with Connected Devices

- Poor usability
 - Mobile apps are sometimes making products more difficult to use
- ? Overhyped and underdelivered
 Connected devices are charged are a premium over "traditional" ones, but don't deliver extra value
- ? Extra customer service burden
 24x7 customer service to help customers
 use products



- Natural multimodal interactions
 Instead of learning to use a mobile
 app, users talk to the devices
- Devices can think and understand

Armed with LLM and agentic AI application, devices and its are much smarter and more useful

Handles most of the customer service

Most customer service questions can be answered by the devices and/or their apps





Working with Gizwits on Embodied Al



Devices

- □ Open Source hardware+Firmware
- ☐ Comprehensive Hardware Solutions

Services

- ☐ Industrial-grade IoT platform
- □ Offering MCP Support
- ☐ Usage-based LLM services
- □ 200+ countries, all major markets

Apps

- ☐ Build your own mobile apps with iOS/Android SDK and APIs
- □ Native Coze support, integratin with other Agentic-Al Framework coming soon

Product Strategies



Single Product

Upgrade tradtional products with Audio/Visual Interfactivity, Products that can THINK!



Table Lamp

Connected Table Lamp

Teaching Table Lamp

Product Suite

Build your own Alexa of one's own brand; Use AI to enhance synergy among products, ; upsale cross-sale; content/service integration



Comprehensive Open Source Hardware Solutions



Al WiFi/GSM Modules	 WiFi and 4G modules are both available 16MB Flash Optional onboard/external antenna 240Mhz main frequency 512KB SRAM Gizwits Al full-link capability 	 For customers with hardware development capabilities, like solution providers. They can develop peripherals (e.g., CAM, LCD) and customize the board frame size based on their product/solution needs.
Open Source PCBA	 Embed Al Agent Module WiFi+BLE Dual Mode Programmable GPIO*18 Integrated charge/discharge circuit Open-source hardware documentation Configurable voice peripherals Gizwits Al full-link capability Support for custom wake-up words 	 For customers with structural development capabilities, like solution providers and manufacturers. They can adjust battery capacity, speaker power, and cable length as needed.
Agentic Al Core (46*46*18mm)	 Embed AI Agent Module WiFi+BLE Dual Mode Integrated charge/discharge circuit Configurable voice peripherals Gizwits AI full-link capability Support for custom wake-up words Ready to use out of the box 	 Suitable for finished product manufacturers, such as plush toy manufacturers. Embedding the core module into a plush toy can complete the toy's Al upgrade.
Gokit5 Al DEV-Kit	 Embed Al Agent Module WiFi+BLE Dual Mode Integrated charge/discharge circuit Configurable voice peripherals Gizwits Al full-link capability Support for custom wake-up words Ready to use out of the box Button-operated for greater convenience. 	 Suitable for smart education, business services, companionship, AIGC creation, etc. Supports button interaction, customizable AI agents, over 10 preset agents, combinable voice libraries, and personalized interaction protocols.
Expansion accessory module	 Camera LCD Screen RGB Light board Mic, Speaker, Chamber Speaker Touch buttons, Buttons Battery Servo 	 Building-block style assembly adapts to all forms, with multiple peripheral interfaces reserved for microphones, speakers, motors, touchpads, and RGB light strips—whatever you need, just plug it in.
Al Cloud Service GOSIM Al Paris 2025	 IoT PaaS for device management: remote control, monitoring, and OTA upgrade, etc. Generative AI - ASR, TTS, multimodal inference (pay as you go or annual subscriptions) 	

GOSIM

THANK YOU





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