

FIT MONSTER

Intelligent Fitness & Digital Sports Solutions

Intelligent Fitness | Digital Sports | Somatosensory Games

The leader in intelligent fitness and digital sports, we are committed to empowering the big health industry Digitization and visualization, integrating technology with fitness, leading the industry trend!

Dongguan Chuan OptoElectronics Co., Ltd



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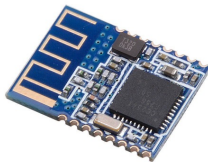
Our Products



全链路关键技术

Our Positioning

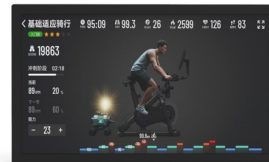
Your sports equipment and fitness devices can be compatible with your APP and applications supporting the FTMS protocol through the intelligent Bluetooth module of Fitness Monster. Alternatively, you can integrate your Bluetooth fitness equipment into the Fitness Monster APP. We support the access of third-party devices to the APP and provide a complete intelligent solution for small fitness devices, as well as technological empowerment to partners in the fitness and sports equipment industry.



Bluetooth or WiFi Module



Intelligent Controls



Display System



Wearable Devices



Small Fitness Equipment



Somatosensory Games



全链路关键技术

Next-Generation Fitness APP

- Interconnection of intelligent small devices to capture sports posture interactions
- Dynamic adaptation of interactive courses, advancing and upgrading with users' capabilities
- Built-in fitness somatosensory games for double the fun while burning calories
- In-depth analysis of fitness data to generate visualized result reports
- Offline course caching function for continuous training without an internet connection
- Intelligent iteration of training plans, adjusted according to physical conditions
- Decomposition and tracking of fitness goals to convert goals into daily tasks
- Virtual fitness medal system to award exclusive honor badges for completing challenges
- Fitness check-in calendar reminders to develop habits with customizable cycles
- AI full-dimensional body scanning to create exclusive fitness blueprints





Full-Range Fitness Equipment



The Fit Monster APP is a full-featured application specially developed for intelligent sports and fitness. Intelligent devices cover skipping ropes, dumbbells, kettlebells, push-up stands, hand grip rings, ab rollers, resistance bands, hula hoops, steppers, treadmills, exercise bikes, rowing machines, elliptical trainers, stair climbers, ski machines, strength equipment, body fat scales, massage balls, fascia guns and other sports and fitness equipment.



Kettlebell



Dumbbell



Barbell



Hand gripper



Skipping rope



Body fat scale



Smart shoes



Ball games



Yoga



Smart wearable



Spinning bike



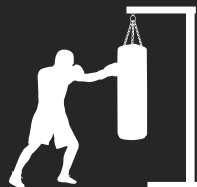
Treadmill



Elliptical machine



rowing machine



Intelligent boxing



Fitness chair



Stepper



Power Station



Cross-Platform Terminal Support



全链路关键技术

The APP supports iOS, Android, WeChat Mini Programs, Windows, MacOS, and smart wearable devices, enabling cross-terminal collaboration: formulating plans on mobile phones, real-time monitoring on watches, HD follow-along training on tablets, and in-depth analysis on computers. Training data and achievement progress are synchronized in seconds on the cloud, and each terminal automatically adapts to the interaction mode: convenient check-in on mobile terminals, immersive guidance on large screens, and accurate feedback on wearables. It breaks down scenario limitations and builds an intelligent fitness ecosystem where users can start training anywhere and continue anytime.



Android & Harmony



iOS



iPad



Smart TV



Set-top Box



Smart Wearable



Support for Cross-Platform Third-Party Access



全链路关键技术

It supports access to third-party platforms such as China Telecom One Net, Tuya, Huawei Health, HarmonyOS, Kinomap, Apple Health, Google Fit, Garmin, Fitbit, and social applications. Through standardized API interfaces, third-party service capabilities are integrated into the fitness plan closed loop, expanding the "device-data-social" ecological network and providing users with an intelligent fitness experience with seamless connectivity.



Google



Amazon



Harmony OS



Apple HomeKit



Amazon AWS



Tuya



全链路关键技术

We have in-depth control over core technologies such as intelligent hardware, Bluetooth, firmware, sports algorithms, spatial computing, 3D technology, digital humans, software APPs, somatosensory games, cloud interaction, multi-connection, smart wearables, and direct TV connection. Our team continuously researches cutting-edge technologies and optimizes and upgrades various technologies to provide customers with strong technical support and ensure a leading position in the fierce market competition.



Smart hardware



Bluetooth technology



Firmware



Motion algorithms



3D technology



Digital avatars



interactive gaming



AI



Cloud computing



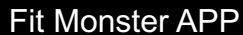
Multi-device



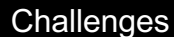
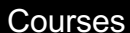
TV connection



Software APP



Health





Main Function



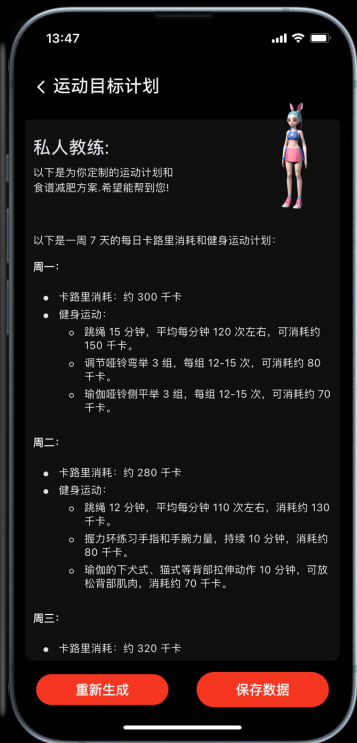
Home screen



AI fitness courses



Intelligent recommendations



Personal health management





Training Modes



Scan new device



Training mode



Virtual real video training

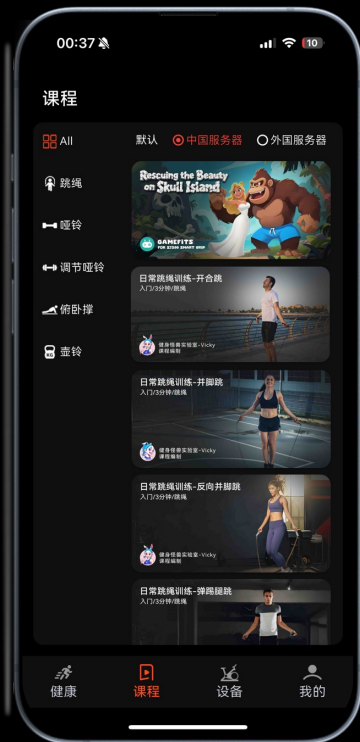




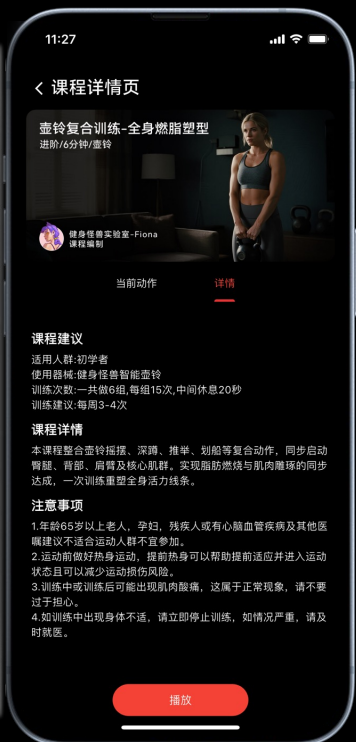
Courses & Games



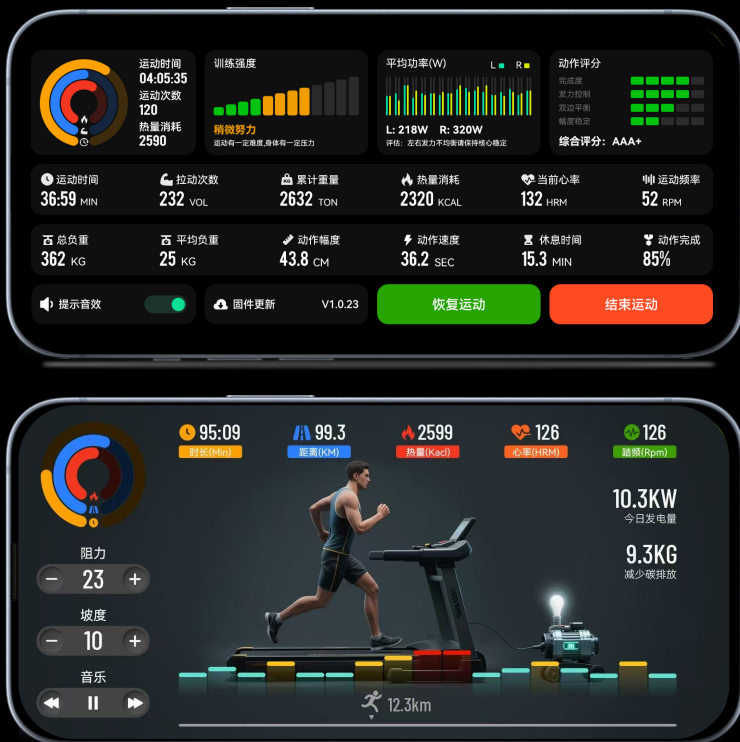
Fitness courses



Course details



Interactive video courses





Sport Records



Records



Multi-devices



History



Daily check-in





Challenges and Rank



Rankings



Records



Medals

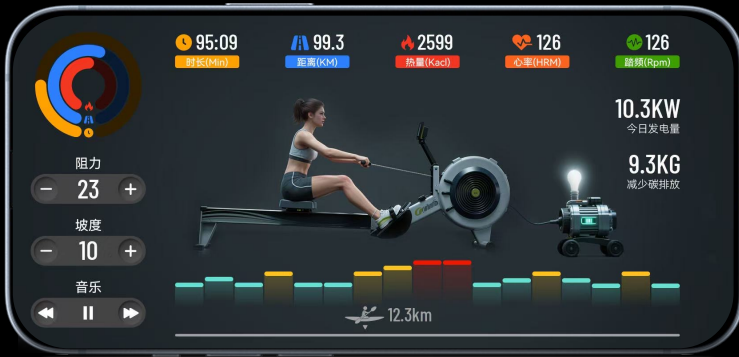


Goal Setting





Fitness Equipment Course Training Interface





Fitness Equipment Live-Action Video





Interactive Fitness Games





Bluetooth Module Connection to Third-Party Apps



Our Bluetooth fitness module supports the following third-party apps.

If customers have designated third-party apps, we can collaborate with the third-party app companies for joint debugging to support the designated third-party apps.



Kinomap



ONELAP



MyWhoosh



Zwift



PART 01

Made fitness fun

Brand Entry Solution

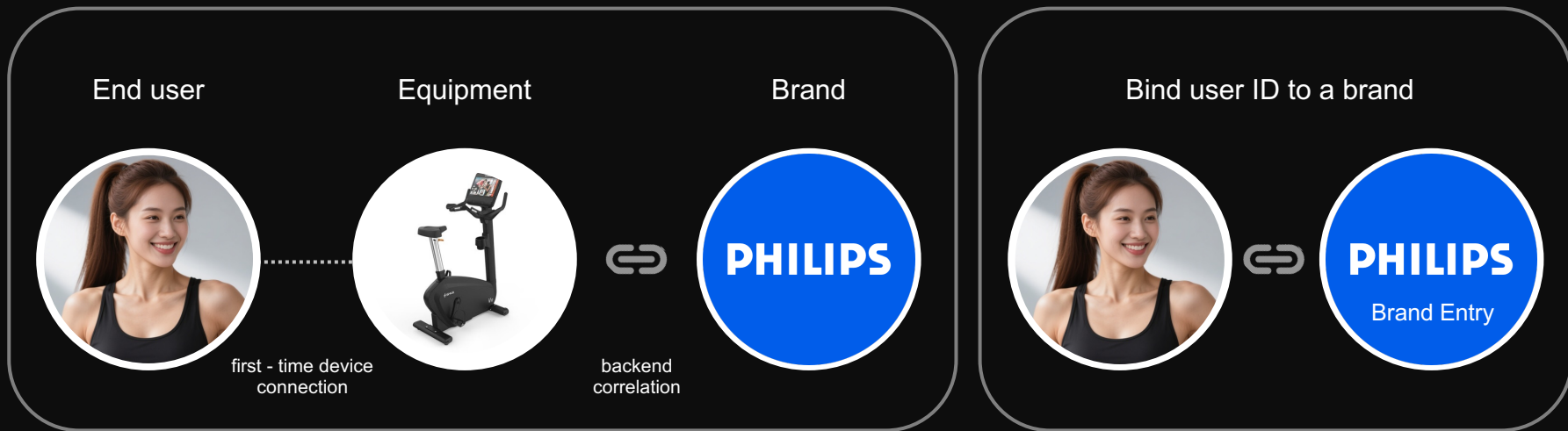
We provide 3 types of APP customization solutions to meet the business and future development needs of brand owners.

- 1 Brand Entry Solution
- 2 OEM Solution
- 3 ODM Solution



Brand Binding

User IDs are bound to the brand when the device is first connected, and the background is associated with the brand.





Home Screen Customization



Brand Entry

APP ICON

The icon of the application (APP) is still FIT MONSTER.



Into APP

First Screen

When the user opens the FIT MONSTER APP, the brand logo will be displayed.



Fit Monster APP



Brand Entry



Brand Entry Solution



Custom IP Display

Brands can showcase corporate portrait IP on the homepage



Customer Brand Name

Custom IP 3D



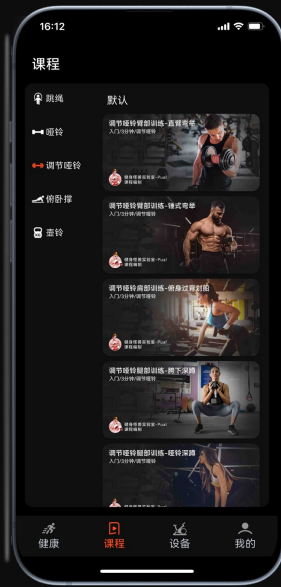
Device Customization

The search device will display the product photos of the client



Course Customization

Brands can customize and upload course videos



E-commerce Jump

Clicking the online mall atomic card on the home page can jump to the third-party e-commerce platform of the client.





全链路关键技术

Backstage management

We provide a back-end management system for brand owners, allowing them to view the status of their APP customers at any time

- Brand user management
- dashboard, traffic, user activity, motion analysis
- View device usage - View user details
- Export/Import Excel Table
- Handling customer support requests
- Management Courses
- Manage Ads





PART

02

Made fitness fun

OEM Solution

With the OEM (Original Equipment Manufacturer) branding method, users can search for and download the brand's App on App stores such as the App Store, Google Play, Tencent My App, and other App marketplaces.





BRAND OEM APP

Users can download the app from the App Store, Google Play, Search and download branded apps on Tencent App Store and other app stores



We will assist our clients in listing their apps on major app stores

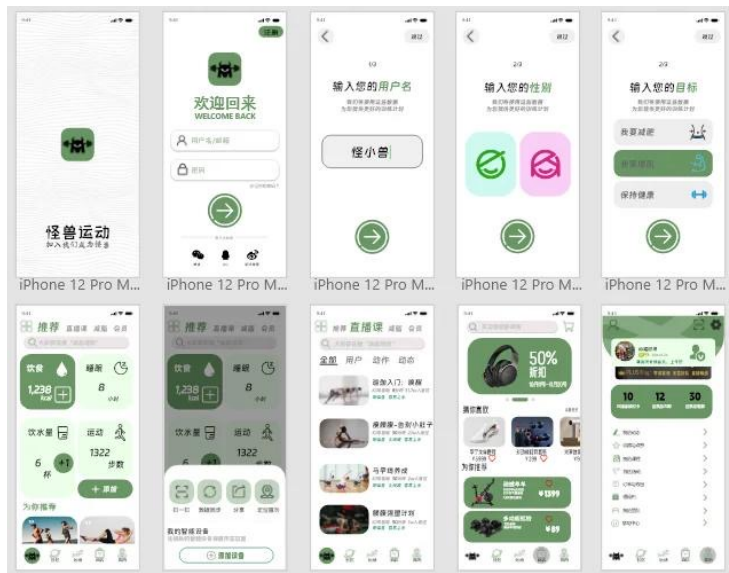




Brands can customize the theme style, UI icons, and other aesthetic designs of the app



New features can be added to the FIT MONSTER APP





Backstage management

We provide a back-end management system for brand owners, allowing them to view the status of their APP customers at any time

- Brand user management
- dashboard, traffic, user activity, motion analysis
- View device usage - View user details
- Export/Import Excel Table
- Handling customer support requests
- Management Courses
- Manage Ads





WeChat Mini Program Solution

Based on the development needs of brand clients and personalized customization solutions, the page design and special functions can be defined independently.

Made fitness fun





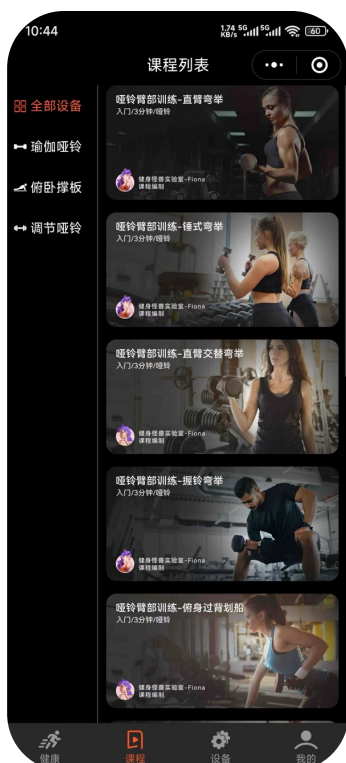
WeChat Mini Program Solution



Home screen



Fitness courses



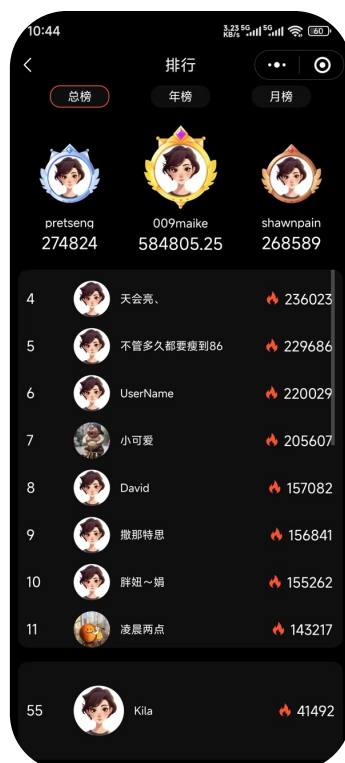
Scan new device



User setting



Rankings





WeChat Mini Program Solution



Fitness courses



Courses details



History records



Sport date



Medals



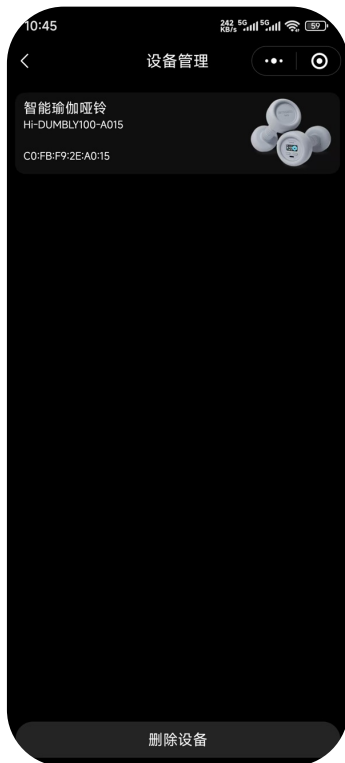


WeChat Mini Program Solution



微信小程序

Device management



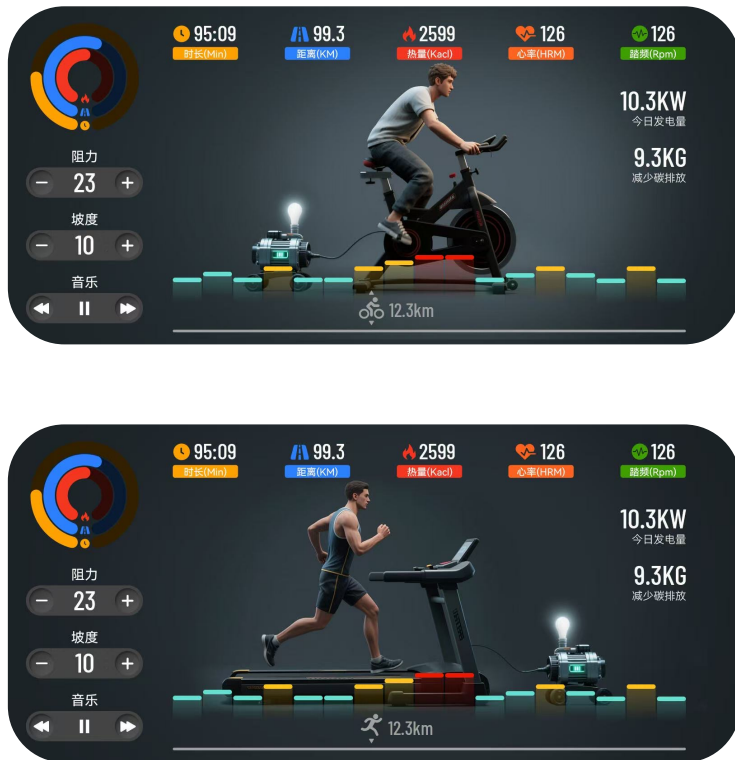
Sports goal setting



Fitness game



Equipment Training Page



PART

03

Made fitness fun

ODM Solution

Based on the development needs of brand customers and personalized customization solutions, define and design pages and special functions on your own





1

Selection of APP customization solutions

- Front end → Flutter
- Mid platform → Java
- Backend development → Java

2

Selection of customized solutions for WeChat mini programs

- Front end → JavaScript + Official Framework
- Mid platform → Java
- Backend development → Java

3

Selection of AI based customized solutions

- Front end → WEB, H5, PHP
- Mid platform → Java
- Backend development → Python

4

Selection of customized solutions for wearable device apps

Huawei designated partner for motion sensing games in sports, health, and wearable devices

- Front end → Java, C#
- Backend development → Java



5

Selection of customized solution for motion sensing game APP

Huawei designated partner for motion sensing games in sports, health, and wearable devices

- Front end → C# + UNITY
- Mid platform → Java
- Backend development → Java





ODM APP Solution with Fitness Game



动感超慢跑



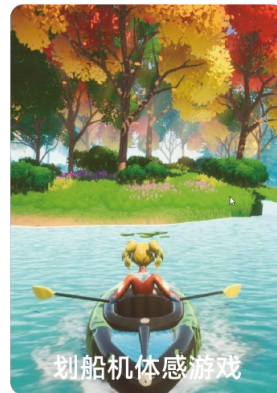
动感骑行



握力环射击



踏步机体感游戏



划船机体感游戏



体感网球



核心力量平衡板



田径跨栏



握力环扳手腕



投篮训练



体感高尔夫



体感壶铃



平衡板飞行



体感跳绳



大师高尔夫



GameFits motion sensing game IP characters and fitness monsters brand is the copyright and ownership of Chuan Optoelectronics

All the images above are copyrighted by GameFits



Project Development Plan and Schedule

The development cycle for each APP software is approximately 2-3 months



Workflow and Decomposition		Process	Job Details
Process	Job Details		
1	Framework construction	4	Program coding
	Modularization, database, wireframe, interaction process & internal classes		All interface designs will be encoded as interactive mobile interfaces, While developing, necessary optimizations and modifications will also be made to the user interface
2	Program logic SI analysis	5	Backend management system
	Handling front-end API interfaces and back-end Database and network interaction logic to provide database and network services for use in front-end applications		All functions of backend management will be implemented in this stage
3	Interface UI Design	6	Program deployment
	Conduct research on customer brand attributes and tone		Deploy the completed front-end APP to the application store, deploy the cloud based programs for the middle and back-end, and test the network speed and multiplayer online stress test
		7	Joint debugging test
			Three party joint debugging and testing of software, firmware, and hardware. After the development of individual module functions is completed, stress testing is conducted to ensure that any potential issues are fixed before going live



PART

04

Made fitness fun

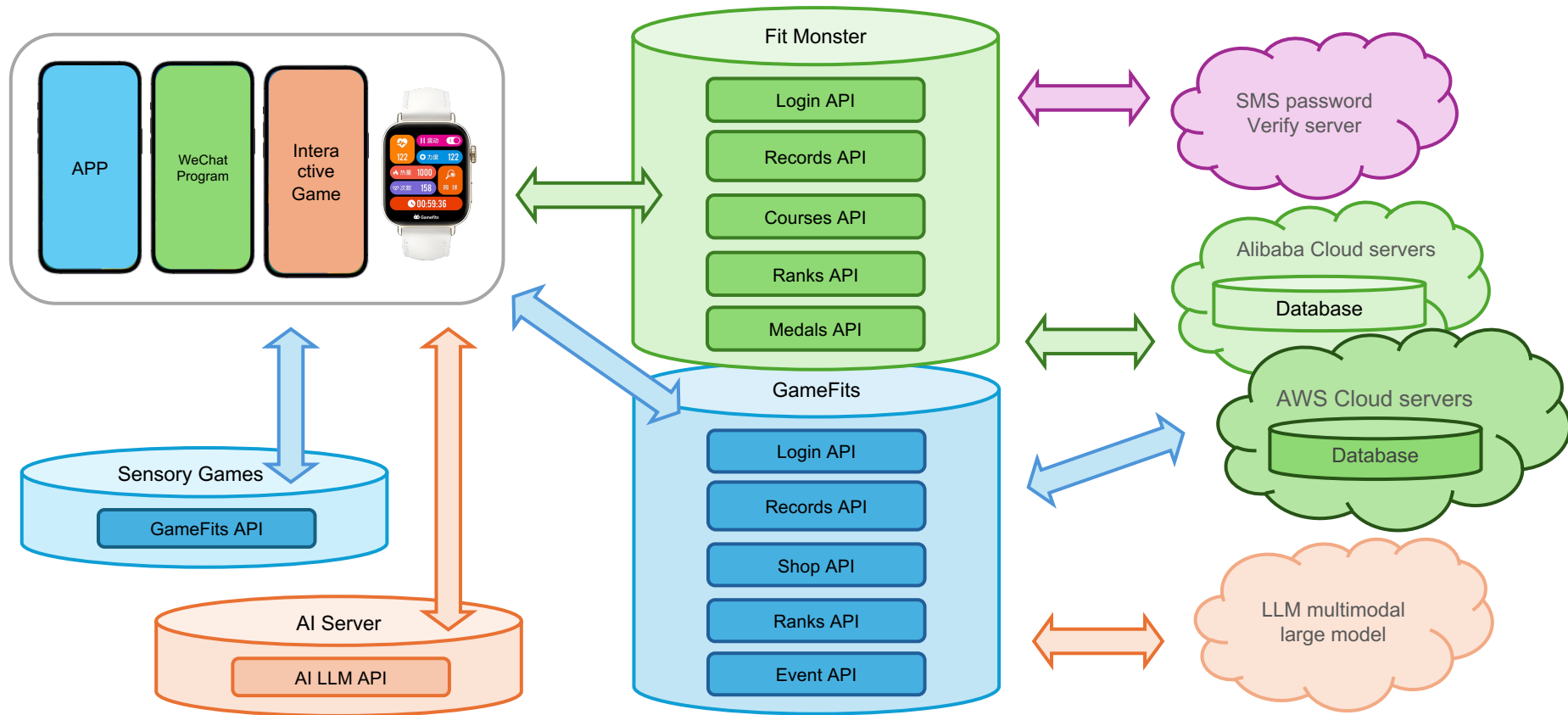
End edge cloud architecture

The leader in intelligent fitness and digital sports, we are committed to empowering the big health industry Digitization and visualization, integrating technology with fitness, leading the industry trend!





End edge cloud architecture





PART

05

Made fitness fun



Product Price

The leader in intelligent fitness and digital sports, we are committed to empowering the big health industry Digitization and visualization, integrating technology with fitness, leading the industry trend!





1 Brand Entry Solution

ITEM	Price/Year	Lifetime system
PRICE	\$ --- / Year	\$ --- (One time fee)
Cloud server prices	-	-
Remark	Effective from the date of signing the contract, relevant functions will be closed upon expiration	Enjoy the benefits of periodic upgrades of APP software



2 OEM Solution

ITEM	APP customization fee
PRICE	\$ --- (One time fee)
Cloud server prices	\$ --- (First year free)
Remark	• Based on the same functional framework as FIT MONSTER App, release brand independent apps on major app stores (without additional features) • The brand app version is updated synchronously with the FIT MONSTER app version.



3 ODM Solution

ITEM	APP customization fee
PRICE	Quotation based on specific functional requirements Includes APP, cloud server program, WeChat mini program, motion sensing game, wearable device APP
Cloud server prices	\$ --- (First year free)
Remark	• Server adoption: China/Alibaba Cloud, foreign/AWS Singapore • The annual fee for the APP store is the responsibility of the customer



PART

06

Made fitness fun

Other Information

The leader in intelligent fitness and digital sports, we are committed to empowering the big health industry Digitization and visualization, integrating technology with fitness, leading the industry trend!





Reference for Naming Rules of Bluetooth Names



1 Brand Enter

FM – XXXXXX – YYYYYY
Brand Code x 2 Device Code x 5 MAC Code x 5

2 For Huawei Health

Hi – XXXXXX – YYYYYY
Brand Code x 2 Device Code x 5 MAC Code x 5

3 Customer Definition

C0FBF92XXXXX interval, C0FBF92 is a fixed code for Fit Monster



Bluetooth module size and pin description

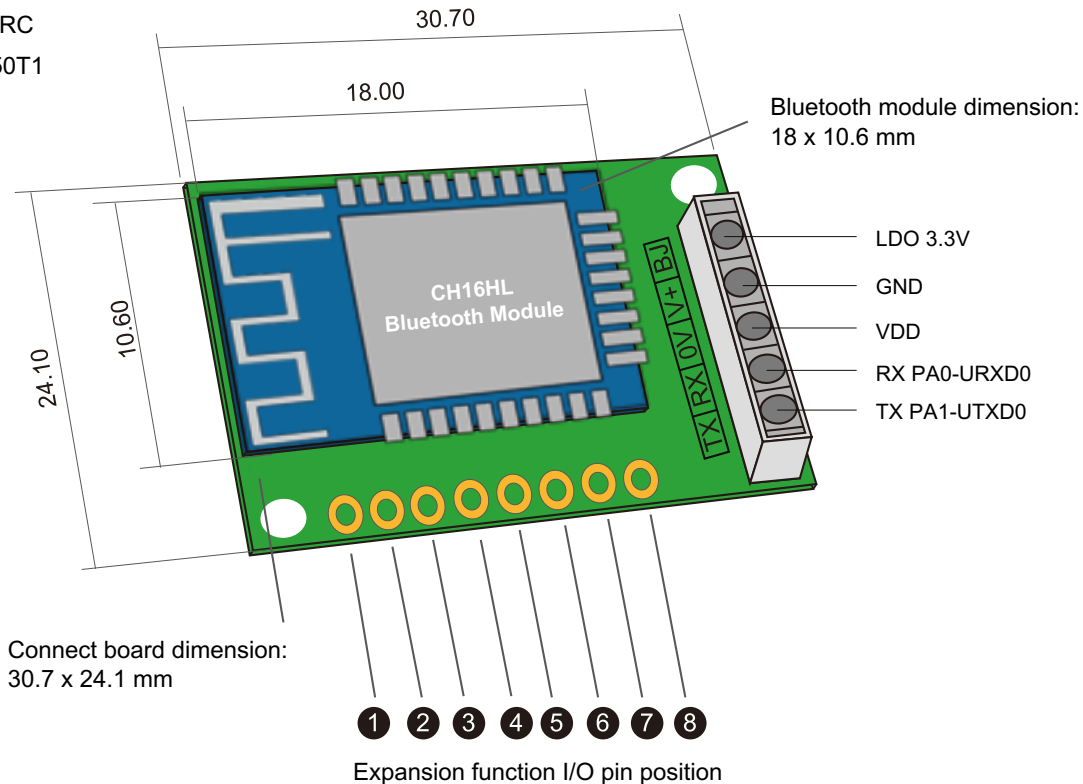


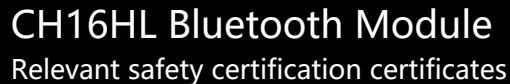
CH16HL BLE module

This Bluetooth module is compatible with BQB, FCC, and SRRC
Taiwan, China NCC magnetic inspection No.: CCAH24Y10650T1

Expansion function I/O pin position

- ① Speaker AOUT-P
- ② Speaker AOUT-N
- ③ RESET
- ④ Charger VCHG
- ⑤ PD7 SDA1 PWM1 ADC3
- ⑥ PD6 SCL1 PWM0 ADC2
- ⑦ PD5 SDA0 PWN5 ADC1
- ⑧ PD4 SCL0 PWM4 ADC0







LCD Display SM6225-238 specification



Google EDLA certification

23.8-inch fitness equipment LCD touch screen all-in-one machine

The Qualcomm SM6225 overseas version EDLA certified Android motherboard adopts the Qualcomm SM6225 eight core 64 bit processor and advanced 6nm process technology, which not only improves performance but also effectively reduces power consumption. This allows users to enjoy strong performance while also extending the battery life of their devices. In addition, in the Antutu benchmark test, the motherboard scored as high as 320000, providing users with a smooth human-computer interaction experience and streaming media viewing experience..

Item	Parameter project	Specification Description
Housing	Product color	Black
Speaker	Number of speakers	2个
	output power	2X5W(8Ω) @1khz, THD+N < 10%
Display	screen size	23.8 英寸
	display area	527.04 (H) × 296.46 (V) mm
	resolution	1920 × 1080 (FHD)
	Backlight type	LED
	brightness	250 cd/m²
Main Board	Application Processor	Qualcomm SM6225, High performance 8 core processor; 4 core ARM Cortex-A73(2.4GHz) + 4 core ARM Cortex-A53(1.9GHz)
	GPU	Adreno™ GPU 610@ 1115 MHz; FP32: 320 GFLOPs
	memory	LPDDR4X @2133 MHz; 32 bit(BW:17.0 GB/s); 8GB
	storage	UFS 2.2 gear 3; 128GB
	operating system	Android 14 OS
	GPRS/EDGE	GPRS: Max 107(DL)/ 85.6(UL); EDGE: Max 296(DL)/ 236.8 (UL)
	WLAN	802.11 a/b/g/n/ac
	Bluetooth	5.0 DR/EDR/BLE
	Working Voltage	12V
	video encoding	1080p60 8 bit HEVC/H.264/H.265
	video decoding	1080p60 8 bit HEVC/H.264/H.265/VP9
	interface	3.5 mm earphone x 1; Mic in x 1; Ethernet (RJ45) x 1; USB-C x 1; HDMI IN x 1; USB-A 2.0 x 2; Micro SD x 1; DC 12V x 1
	Working temperature	0°C 至 +50°C. (associated with motherboard)
Package	Total weight	5.5KG
working environment	Operating Temperature	0°C-50°C , Working humidity 20% -80% (non condensing)



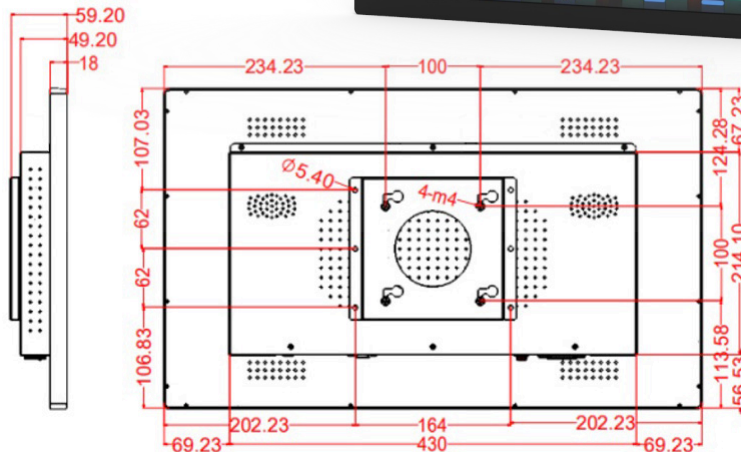
LCD Display SM6225-238 specification



Screen size: 23.8 "inch + capacitive full screen touch screen

The screen is rotatable and the display direction adapts to 0 degrees/90 degrees/180 degrees/270 degrees

Google EDLA certification (Enterprise Device Licensing Agreement)



Unit: mm



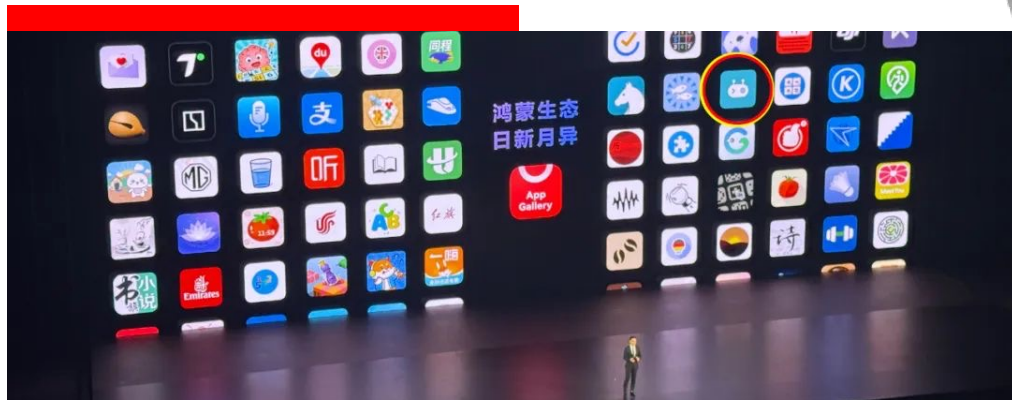
Patent Certificate

A patent certificate is an important manifestation of a company's technological innovation and intellectual property protection. The company has over 100 related patents, which not only provide legal protection for the company's products and technologies, but also enhance the company's market competitiveness..





2025 HDC Huawei Wearable Device Sensory Game Manufacturer



2025/6/10 Huawei Shanghai New Product Launch Event - Fitness Monster GameFits Sensory Game
Formally Becomes HarmonyOS Ecology



Under the spotlight of the Sports and Health main forum at the Huawei HDC 2025 Developer Conference, Mr. Zhang Wei, President of Huawei's BG Intelligent Wearable and Sports and Health Product Line and CEO of Huawei's Sports and Health Corps, introduced the open implementation of cross device connectivity between watches and phones based on Huawei wearable device sensors. Gamefits brings a richer sensory interactive experience, and the GameFit application of Fitness Monster brings a new entertainment experience to wearable devices!





2025 HDC Huawei Wearable Device Sensory Game Manufacturer



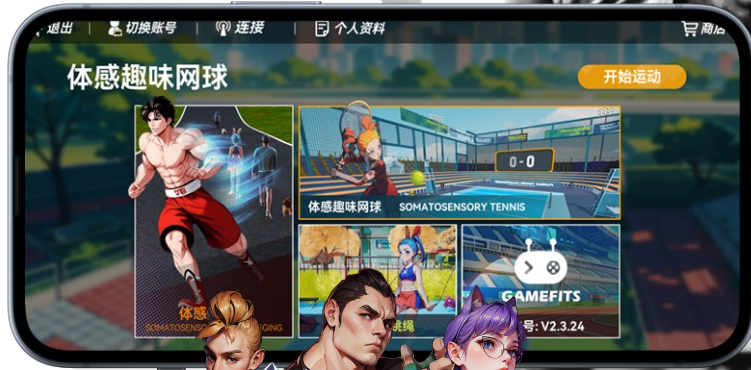
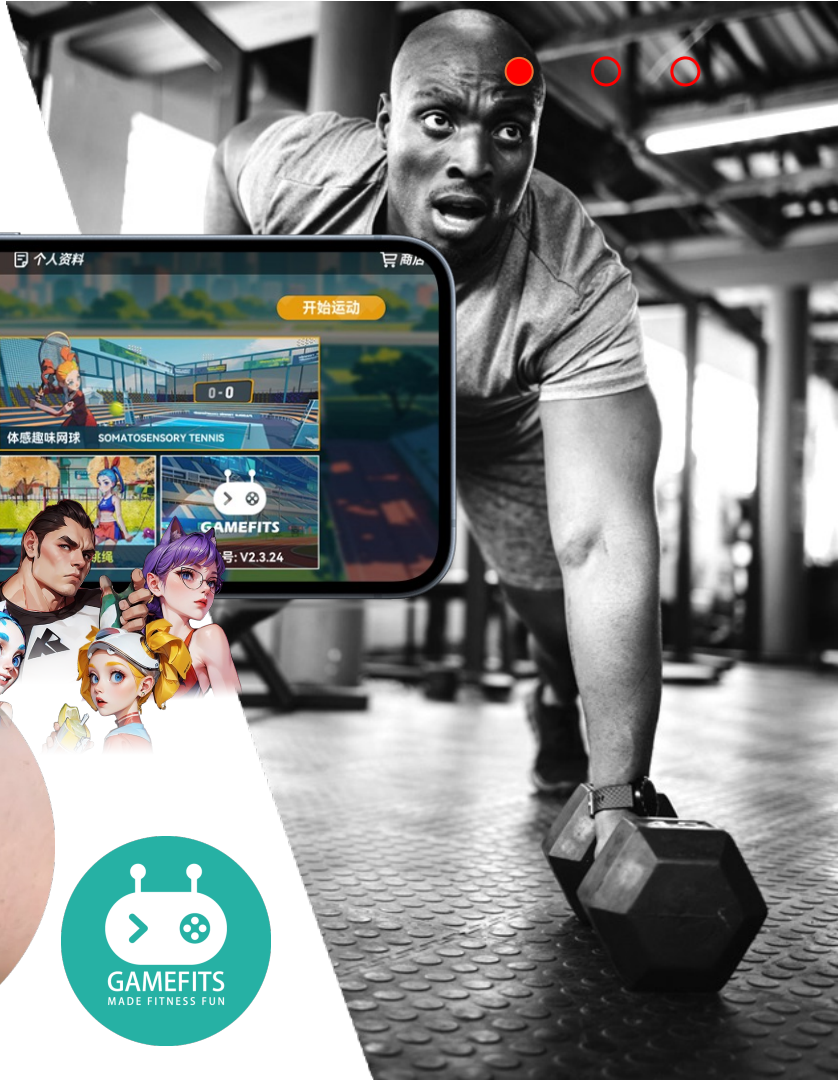
President of Huawei BG Intelligent Wearable and Sports Health Product Line and CEO of Huawei Sports Health Corps
Mr. Zhang Wei introduced the richer tactile interaction experience brought by Huawei wearable devices and Gamefits, which was broadcasted live globally

2025/6/20 Huawei HDC 2025 Developer Conference - Fitness Monster GameFits motion sensing game officially released and promoted together with Huawei's online and offline promotion



AI+Sports+Scene+Game+IP

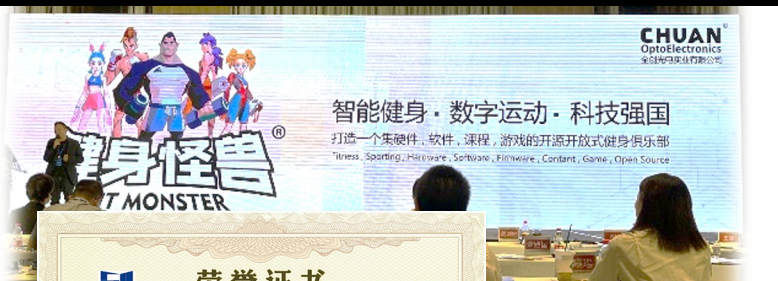
The world's first leader in creating a fitness digital IP





Awards and Honors

Honor certificate is an important recognition of the company's technological innovation. The company has over 30 honorary certificates and awards, representing its leading position in the industry and a pioneer in technological innovation.



CSS AWAROS

中国体育博览会

连续三年获得
创新推优大奖



2023年智能瑜伽哑铃



2024年智能体感跳绳



2025年智能调节哑铃



2025年智能俯卧撑



实业有限公司
OptoElectronics Limited



Key account

Currently cooperating clients



THANK

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Dongguan Chuan OptoElectronics Co., Ltd



www.fitmonster.club
健身怪兽官网