

A Turnkey Solution Provider for Smart Wearables-based IoT Products & Services



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4 Application Fields

Company Profile





Healthcare Management

Hospital/Wisdom pension

Smart Travelling









Goverment

Smart Factory

Logistic

Smat Office







JYCS001

Blood oxygen/temperature/heart rate/ breathing/stress level/fatigue/ blood pressure/Bluetooth/GPS/Beidou+LoRa

Work with Bluetooth Gateway

- 1. support bluetooth gateway massive time calibration
- 2. support push message display (name/company/department/ID)
- 3. support bluetooth gateway push message (bluetooth gateway or LoRa gateway)
- 4. can store 5 messages







Vital Sign + BLE Series



high accuracy vital sign monitoring



BLE Beacon



BLE AOA Locating/QuuPaa



Support sacn and broadcasting



BLE scan beacon then broadcasting

Support BLE AOA locating

X3PLUS-HTO2



The main function:

infrared continuous measurement)

2. Heart rate (high-precision

measurement)

measurement and continuous measurement)
4. Exercise pedometer
5. Sleep
6.NFC M1 card
7. Bluetooth BEACON
8. Blood pressure
9.Display 1.3 inch 240*240 ips
10.Bluetooth 5.2 Nrf52840

Cooperate with Bluetooth base station function:

1.Batch automatic time calibration

2.Student name and class display

3. Message notification

4. Store 5 messages

5.Interactive classroom (optional)

6. Upload body data

I7-HTO2



The main function:

1.Blood oxygen (PPG red light infrared)

2.Heart rate (high-precision dynamic heart rate)

3. Body temperature (high precision temperature measurement)

- 4. Exercise pedometer
- 5. Sleep
- 6.NFC M1 card
- 7. Bluetooth BEACON
- 8. Blood pressure
- 9. Display 0.96 inch TFT160*80

Cooperate with Bluetooth base station function:

1.Batch automatic time calibration

2.Student name and class display

3. Message notification

4. Store 5 messages

5.Interactive classroom (optional)

6. Upload body data

SH09-HTO2



W5-HTO2



The main function:

infrared)

dynamic heart rate)

measurement)

- 4. Exercise pedometer
 5. Sleep
 6.NFC M1 card
 7. Bluetooth BEACON
- 8. Blood pressure

9.Display 0.87 inch OLED 128*32

Cooperate with Bluetooth base station function:

calibration

display

- 3. Message notification
- 4. Store 5 messages

(optional)

6. Upload body data

features:

1.Any N of M persons approaching vibration (M>=N)/peer-to-peer technology

2. Distance setting: 1m / 1.5m / 2m / 3m

3.The temperature measurement accuracy of the high-precision temperature measurement module is plus or minus 0.2 degrees

Vital sign+BLE+LORA+GPS/BD Serie

JYCS001



Main Functions:

- 1. Stress level (mood)
- 2. Fatigue/NFC/SOS
- 3. Pedometer sleep
- 4. Blood oxygen SPO2 / HRV/RRI
- Respiration rate/blood pressure/Body temperature (body surface)
- 6. High precision ultra-low power dynamic heart rate
- 7. XYZ acceleration sensor value
- 8. PPG RAWDATA
- 9. Bracelet batch time automatic calibration
- 10.Bluetooth BEACON broadcast
- 11.With Bluetooth base station support

connect wtih LoRa gateway:

1.The supporting vital sign data is uploaded to the cloud platform via LORA gateway

2.Support LORA gateway to push information to watch (downlink)

3.Support SOS reporting to Ping via LORA gateway

Vital sign+BLE+CAT1+GPS/BD

J3



Functions:

- 1. Stress level (mood)
- 2. Fatigue/NFC/SOS
- 3. Pedometer sleep
- 4. Blood oxygen SPO2 / HRV/RRI
- 5. Respiration rate/blood pressure/Body temperature (body surface)
- 6. High precision ultra-low power dynamic heart rate
- 7. XYZ acceleration sensor value
- 8. PPG RAWDATA
- 9. Bracelet batch time automatic calibration
- 10.Bluetooth BEACON broadcast
- 11.With Bluetooth gateway support

Work with BLE gateway:

- 1. Support bluetooth gateway batch time calibration
- 2. Support to connect to send instructions to obtain vital signs
- 3. Support user number and class name to be displayed on the bracelet page (or 4 fields such as employee name/company name/department/employee number)
- 4. Support bluetooth gateway push message
- 5. Support 5 message storage (Bluetooth push or cloud platform directly push through TCP)

Vital sign+BLE+UWB

J3-UWB



Functions:

- 1.Stress level (mood)
- 2.Blood oxygen SPO2
- 3. Breathing rate
- 4.Blood pressure
- 5.Body temperature (body surface)
- 6.fatigue
- 7. High precision ultralow power dynamic heart rate
- 8.HRV/RRI
- 9.XYZ acceleration sensor value
- 10.NFC/SOS
- 11.Bluetooth BEACON broadcast

UWB gateway:

1.Support vital signs through UWB module transmission to UWB gateway + background

2.Support vital signs to the background via bluetooth gateway

Vital sign+BLE+Low frequency+anti-dismantle

J1



防Disassemble watch/disassemble or cut off alarm

Wireless charging (with a battery pack of 1000 mah)

Kids Smart Bracelet

Functions:

- 1. Pressure value
- 2.Blood oxygen SPO2
- 3.Breathing rate
- 4.Body temperature or body surface temperature
- 5.fatigue
- 6.High precision ultra-low power dynamic heart rate
- 7.HRV/RRI
- 8. Wireless charging
- 9.Bracelet batch time automatic calibration
- 10.NFC/SOS
- 11.Low frequency 125K excitation

Bluetooth gateway:

- 12.Support bluetooth gateway batch time calibration
- 13.Support bluetooth Beacon broadcast or master-slave

14.The 125K driver ID is reported to the Bluetooth gateway

SH06HT



Functions:

- 1.Heart rate (high precision dynamic heart rate)
- 2.Body temperature (high precision temperature measurement)
- 3.Step motion meter
- 4.sleep
- 5.No NFC
- 6.Bluetooth BEACON
- 7.Blood pressure
- 8. There is no display

Bluetooth gateway:

1.Batch time calibration
 2.Upload of body data

C1



Mini size

X1



Mini size

Functions:

- 1. Body temperature/surface temperature
- 2. Blood oxygen/blood pressure/nap/night sleep
- 3. High precision ultra-low power dynamic heart rate
- 4. HRV(RRI)/ Stress level (mood)
- 5. Respiration/stress/fatigue
- 6. Exercise/distance/calories
- 7. Social distance/user information display
- 8. Regional positioning and indoor positioning
- 9. Interest zone corner /NFC one card
- 10.Jump rope/bounce ball/teacher-student interaction thumbs up
- 11.Exercise intensity monitoring throughout the day
- 12.Bluetooth BEACON broadcast

Functions:

- 1.This does not change with bluetooth base station
- 2.Super small size
- 3.Heart rate
- 4.Blood oxygen
- 5. Body temperature
- 6.breathing
- 7. Pressure value
- 8.fatigue

Professional Field 9. Take a nap/go to bed late

T5 sports armband



BLE Gateway:

- 1.Support bluetooth gateway batch time calibration
- 2.Support student (Staff) Number Class (organization) name display on the bracelet page (School/class/student name/student ID)
- 3.Support bluetooth gateway push message (parents of users send short messages to children without mobile phones)
- 4.Supports five message stores

Functions:

- 1. High accuracy dynamic heart rate
- 2.Compare POLAR and WAHOO ARMBAND data;
- 3. Wisdom PE exercise load detection exercise prescription

T3 sports ar, mband



W1



2 sports mode

[Professional Training] [Free Training]

Duration within 5 major heart rate intervals

Professional exercise heart rate

Functions:

High precision dynamic heart rate + blood oxygen + body temperature + HRV

(RRI) + fatigue monitoring

Sports class trainig



Functions:

- 1.Real-time heart rate (BPM)
- 2.Exercise data report analysis
- 3.Real-time measurement of exercise results

Smart Campus

Students: SH09-HTO2



Functions:

Social distance + High precision Heart rate + Blood pressure oxygen saturation + body temperature + HRV (RRI)

+ Fatigue monitoring

Students: SH06HT



Students: SH07





Main features:

- 1.Heart rate (high precision dynamic heart rate)
- 2.Body temperature (high precision temperature measurement)
- 3.Step motion meter
- 4.sleep
- 5.No NFC
- 6.Bluetooth BEACON
- 7.Blood pressure
- 8. There is no display

Main features:

- 1.Heart rate (high precision dynamic heart rate)
- 2.Step motion meter
- 3.sleep
- 4.NFC M1 one card
- 5. Bluetooth BEACON
- 6.Blood pressure
- 7.7. Display 0.87 inch OLED 128*32

Work with BLE gateway:

Batch time calibration
 Physically sploading

Support BLE gateway:

- 1.Batch automatic time calibration
- 2.Student name class display
- 3.alerts
- 4. Five messages are stored
- 5.Interactive Class (optional)
- 6.Upload of body data

Kids/baby: C1



Mini size

Main features:

- 1. Body temperature/surface temperature
- 2. Blood oxygen/blood pressure/nap/night sleep
- 3. High precision ultra-low power dynamic heart rate
- 4. HRV(RRI)/ Stress level (mood)
- 5. Respiration/stress/fatigue
- 6. Exercise/distance/calories
- 7. Social distance/user information display
- 8. Regional positioning and indoor positioning
- 9. Interest zone corner /NFC one card
- 10.Jump rope/bounce ball/teacherstudent interaction thumbs up
- 11.Exercise intensity monitoring throughout the day
- 12.Bluetooth BEACON broadcast

Support BLE gateway:

- 1.Support bluetooth base station batch time calibration
- 2.Support student (Staff) Number Class (organization) name display on the bracelet page (School/class/student name/student ID)
- 3.Support bluetooth base station push message (parents of users send short messages to children without mobile phones)

4.Supports five message stores

Teacher: X2 like



Teacher: 17



Functions:

- **1.NFC READER**
- 2.Other 13.56MHZ labels can be read
- 3.Can read other M1 card bracelet
- 4.Can be used for teachers to give students a thumbsup

Functions:

1. Sign-in for tour guides and team leaders or

teachers for team members in the process of study

and travel: 1 team leader for 50 team members

2.50 people's heart rate data are displayed in a

centralized manner

3.50 individual exercise data sets are displayed

.

Teacher: X5



Functions:

- 1. Body temperature/surface temperature
- 2. Blood oxygen/blood pressure/nap/night sleep
- 3. High precision ultra-low power dynamic heart rate
- 4. HRV(RRI)/ Stress level (mood)
- 5. Respiration/stress/fatigue
- 6. Exercise/distance/calories
- 7. Social distance/user information display
- 8. Intelligent attendance /. Heart rate risk control
- 9. Exercise monitoring/detachment testing
- 10.Thumb up between teachers and students

Support BLE gateway:

- 1.Support bluetooth base station batch time calibration
- 2.Support student (Staff) Number Class (organization) name display on the bracelet page (School/class/student name/student ID)
- 3.Support bluetooth base station push message (parents of users send short messages to children without mobile phones)
- 4.Supports five message stores



Functions:

Customize Massive Charging box(1V50)

1Charge 50 sports bracelets or bands at the same time

2. Reference size 400*250*90 (MM)

Power 40W, output 5V 1A,

Using new ABS material,

Impact resistant, removable

Different charging management boxes are different and need to be customized



Bluetooth Gateway





IOT Gateway (Indoor POE Bluetooth Base Station)

Bluetooth Parameters

Bluetooth chip: 1 channel Nordic nRF52832

- Bluetooth standard: support and follow Bluetooth LE 4.0 I 4.1 / 4.2, 5.0 compliance
- Number of LE concurrent connections: up to 20• Operating frequency: ISM band 2.400 2.4835GHz
- Duplex mode: Time Division Duplex (TDD)
 Transmission rate: fastest 1Mbps
- Transmit power Tx: 0 to + 20dbm, continuously adjustable: 4db gradient
- Receive sensitivity Rx: -1 05dbm
- Antenna gain: 5dbi peak
- Increased broadcast capacity (x8)

Wi-Fi parameters (802.11 b/g/n)

• Frequency: 2.4 GHz

•Working mode: client or hotspot, switchable but not Work at the same time

- Transmit power: 17.5 to 12.5dBm
- Receive sensitivity: -96 to -71 dBm
- Antenna: built-in omnidirectional antenna

Technical solutions



Message push and storage

With the Bluetooth gateway to establish a connection

The bracelet can receive 1 O messages and store them.

The number of words displayed per screen is 50 Chinese characters (160*80 resolution color TFT display)



Batch automatic time calibration

Using the master-slave bracelet to automatically calibrate the time in the Bluetooth base station coverage

Solved the problem of batch time of multiple bracelets

Solved the problem that the bracelet should be set repeatedly after there is no power time recovery.

Solved the problem that users can't use APP and can't synchronize time in similar school scenes.

Ultra low power heart rate

Original charged ultra-low once, power heart heart rate rate can support algorithm 10–15 and chip days when combinationit

fully charged once, heart rate can support 10-15 days when it 1s normally open 24 hours (depending on different models)





Ultra low power heart rate

Algorithm and chip combination

Addressed customer requirements for medical and health management Long-term collection of heart rate data for power analysis of algorithm analysis

Precise heart rate

Unique dynamic heart rate algorithm that makes heart rate accuracy in life scenes, walking, and even irregular move- ments

In the process of contrast with heart rate, it shows strong dynamic followability.



Heart rate variability HRV data collection

HRV applies to the body's daily stress check, which can lead to emotional and stress prescriptions



Heart rate variability HRV

Emotional measurement

Heart rate raw PPG RAW DATA data collection up to 1000HZ

Multi-dimensional sensor data output including acceleration sensor gyroscope, etc.

Using the reserve heart rate HRR to divide the exercise intensity interval is more scientific



HRR = (maximum heart rate - resting heart rate)* intensity percentage+ resting heart rate HRR uses raw data for RRI and XYZ axes

Bluetooth One-to-many Technology

All products support Bluetooth One-to-many Technology. This technol- ogy enables integrated customers who do indoor positioning to reduce the deployment data and cable cost of the gateway to a large extent, so that the original location of the deployed gateway is changed to deploy beacons, not only the overall solution cost. Low, construction costs and customer convenience have also been greatly improved. This solution transforms the traditional single Beacon positioning mode into active posi- tioning, which provides a more competitive solution for indoor positioning integrators.

	Group One-to-many Positioning Wristb	Single Wristband Beacon positioning broadc
Technical characteristics	Bracelet scanning Beacon Broadcast simultaneously and received by the AP	The individual ring of the bracelet is received by the AP
Deploying a gateway	Rarely	a lot of
Deployment beacon	Originally deployedgateway Place to deployBeacon	Do not deployBeacon
Cost budget	Lower cost	Because there aremore gateways higher cost
Deployment convenienc e	Less pull line, easy to deploy	Pulling more lines, deploying trouble

Application Fields



Smart campus

1) Daily behavior monitoring and safety warning for students in school

Using radio frequency (FRID), Bluetooth gateway, wireless hotspot (wifi ap) and other technologies, special space point monitoring and analysis is carried out for students wearing smart bracelets.

2) Student catering behavior monitoring and nutritional health assessment

Monitoring the student's eating behavior can monitor the student's meal time, meal volume, and meal type in the restaurant, and form a student's dietary pref- erence and nutritional meal recommendation report.

3) Student physical exercise behavior monitoring and physical fitness assessment

Focus on monitoring students• exercise patterns and exercise volumes to form individual and overall sports statistics

4) Student reading behavior monitoring and reading ability assessment

5) Student attendance leave behavior monitoring and disease warning



Multiple bracelets + gateway + IoT platform + application platform + applet/APP remote



The fourth generation kindergarten bracelet (designed for smart kindergartens)



On-campus attendance

When children enter and leave campus, The gateway will record and push to parents



Indoor track navigation

Record the classroom activity track of each student Real-time classroom attendance



News push

Real-time push of health monitoring big data Real-time push of attendance records

data

SOS one-key alarm

One-click alarm; contact your prestored emergency contacts

Teacher's praise to children

The teacher's bracelet and the student's bracelet collide The bracelet vibrates and records the number of times sent to the background display



The teacher's bracelet collides with the students The bracelet vibrates and records the number of times sent to the background display

Child friend group identification



Entry and exit records

Length of stay

Check in and check out

Electronic fences, sensors, and automatic sensing are placed at the entrance of the park. Children check in and out of the park, and teachers check in and out of get off work.











clock in

Children getting on and off the school bus record

Record the time of getting on and off the school bus and push the message to parents



Crowd gathering alarm

Realize crowd gathering judgment t.....indoor positioning technology





More than 5 people + more than 5 minutes; the bracelet will alarm



Background statistics

Heart rate data

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Body temperature data



Sports data analysis



Personnel positioning



Attendance statistics



Historical case

Five schools in Pengzhou: Baima Shishi Middle School, Pengzhou No. 1 Middle School, Pengzhou Middle School, Aoping Middle School, Mengyang Middle School

Realize function:

1.Cooperate with the class scheduling software and electronic class card for the class attendance of all middle schools;

2. Realize that parents can send messages to students;

3.Realize student campus positioning (prevent students from skipping classes, leaving school without reason, electronic fences, etc.)

4. Realize student's exercise and health (heart rate) monitoring



Historical case

Tianfu No. 4 Middle School strives to create a smart, efficient, and ecological smart campus, with first-class hardware supporting facilities to fully meet the needs of teachers, students, parents and the public for smart education. 10 Gigabit LAN, Gigabit to the desktop, build a cloud platform to create an integrated network environment with full coverage of wired and wireless. The school vigorously promotes smart applications in four aspects: adaptive smart teaching, scientific smart management, collaborative smart teaching and research, and customized smart services, and efficiently conducts big data analysis of school-wide informatization education and teaching to achieve precise management and precision Teaching and precise service.



Shenyang No. 176 Middle School

Realize function:

1.Cooperate with the class scheduling software and electronic class card for the class attendance of all middle schools;

2. Realize that parents can send messages to students;

3.Realize student campus positioning (prevent students from skipping classes, leaving school without reason, electronic fences, etc.)

4. Realize student's exercise and health (heart rate) monitoring









Application scenario



Smart sports

1) Physical exercise behavior monitoring and physical fitness assessment

Monitor the daily exercise volume and exercise patterns of the students, including the amount of exercise such as daily walking, running, jumping, etc., the length of exercise of the students in the playground, etc., combined with the physical data of the students (gender, height, weight, illness, etc.) Form a daily exercise compliance report for each student, and request the system to periodically analyze the exercise data of the monitored students to form a physical development situation map and trend map of the individual and all students, and according to the growth rules of the students in each semester And physical fitness indicators suggest scientific training advice and guidelines.



Application scenario



Smart medical

1) Body side data message push

Patient's body data is uploaded to the cloud platform Patient's relevant measurement data can be transmitted simultaneously Cloud platform such as blood pressure ECG ECG blood oxygen Blood sugar/ fetal heart I breathing / body temperature, etc. Infusion judgment Sleep data upload (sleeping heart mattress)

2) Patient SOS One Call for help

The patient can call the cloud platform through the wrist button. Call for help information can be pushed to the nurse on duty or on the guard1s bracelet

3) Track positioning

Patients will have trajectory records and real-time location and statistics in the hospital;

Judging too long in a particular location

- 4) Medical equipment/ medical waste and asset management
- 5) Baby theft/nurse and room management

Physical test data news push



Upload the patient's body data to the cloud platform



The patient's relevant measurement data can be transmitted to the cloud platform at the same time



Blood sugar, fetal heart, respiration, body temperature, etc.

Infusion judgment



Sleep data upload (sleep ECG mattress)

Patient SOS call for help



Patients can call for help to the cloud platform through the bracelet buttons

Call for help information can be pushed to the nurse on duty bracelet



Call for help can be pushed to the nurse

Track positioning

Patients will have track records and real-time positioning and statistics in the hospital

Length of stay in a specific location



Medical equipment and asset management



Movement tracking

Real-time positioning

Medical waste management



Visualized management of medical waste indoor

Seamless connection between indoor and outdoor

Baby Burglar







Error proof



Prevent malicious exchange

Application scenario



Smart Nurse Station

1) Count the length of time a nurse has been in a ward, including the time of entry and exit, time distribution, and total time per day.



2)The data is stored for 12 hours, and the data is cleared the next day.

- 3) Keep the total number of nurses within 30.
- 4) Keep the maximum number of wards within 50.

5) If a nurse frequently enters a certain room within (5 minutes), then only one piece of data is counted, including the earliest entry time, the latest departure time and the total length of time, not multiple data.



6) The Bluetooth base station provides API to the server, and the server activates the base station every 30 minutes to search for the data in all nurse bracelets and report back to the cloud.



7) The wristband and base station provide an interface for setting the working hours of nurses. The start and end times of different nurses are different.





Setting interface of bracelet and base station

Working time setting

8) When the bracelet is set to start, the default data storage time is 12 hours after the beginning of this time; the data clearing time is 24 hours after the beginning of this time (refers to the nurse's work the next day)

9)



{...}

MOTT service



JSON data format

HTTP protocol

Application scenario



Wisdom pension

1) Body side data message push

The old man•s body data is uploaded to the cloud platform The relevant measurement data of the elderly can be transmitted simultaneously Cloud platform such as blood pressure ECG ECG blood oxygen Blood sugar/ breathing / body temperature, etc.

Sleep data upload (sleeping heart mattress)

2) SOS one- call call for help

The old man can call the cloud platform through the bracelet button. Call for help information can be pushed to the nurse on duty or on the guard's bracelet

3) Track positioning

There will be track records and real-time positioning and statistics in the nursing home; Judging too long in a particular location

4) Electronic fence setting, safe and healthy intelligent warning

5) Monitoring of vital signs of the elderly

Service Content



Program composition

The iSmarch elderly care solution consists of four parts: smart hardware, wireless network, IoT platform and application software

System composition and main functions



Technical advantage: positioning algorithm

The Bluetooth gateway scans the Bluetooth signal broadcast by the positioning tag, and then uploads it to the positioning engine. The positioning engine uses the unique enhanced triangulation algorithm of Family Interactive IoT to determine the location of the positioning tag with a positioning accuracy of 1 to 3 meters.



Technical advantage: 3D map



- High map accuracy, average accuracy up to 10CM
- Using vector map format, zooming is clear and unaffected
- Use 3D map format to display more vividly
- Adopt international general WGS84 coordinate standard
- The map is rich in color and can be adjusted or customized as needed
- Rich POI material library, and can be set by yourself
- The map has functions such as query positioning, route planning, navigation, etc.

Technical advantages: cloud architecture + big data analysis



Application scenario



Smart workstation

1) Worker positioning

Employees are positioned in real time, and managers can view the real-time location of different types of people in the system background.

2) Automatic electronic attendance, no perception punch

Every day when the worker enters the factory for the first time, the position and time of the worker will be automatically recorded, and an attendance record will be automatically generated in the background.

3) Hazardous area alarm

Custom fence area settings, when workers enter the electronic fence will immediately send alarm information to the background system

4) Static alarm

Long-term stationary alarm to prevent workers from being lazy or accidental

5) Health monitoring / caring for employee vital signs

Worker positioning / track playback



Road condition monitoring



Dangerous area alarm



Custom fence settings Dangerous area alarm

Alarm prohibited



Long time inactivity alarm Prevent workers from being lazy

Automatic attendance



Automatic electronic attendance No perception punch

Health monitoring



Caring for employee health vital signs testing

Application scenario



Smart gym

1)) Real- time control of sports data

The bracelet can monitor each student1s heart rate exercise intensity, calories, steps and other movements at any time; for different training intervals to achieve training purposes

2) Data projection

Each student's exercise data and heart rate will be displayed on the big screen, so that each student can understand their own sports situation; at the same time, the coach will also supervise the students.

3) Heart rate warning

Heart rate warning settings for certain sports and students; v to prevent accidents

Application scenario



Smart Sanitation Inspection



B Bracelet+4G → Upload cloud data



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