

# FalCo Solution Co.,Ltd.

47/319, 5th floor, KaiTak Building, Popular Road, Ban Mai Subdistrict,  
Pak Kret District Nonthaburi Province, 11120 Thailand  
TaxID. 0135558013787 Tel. 021180644

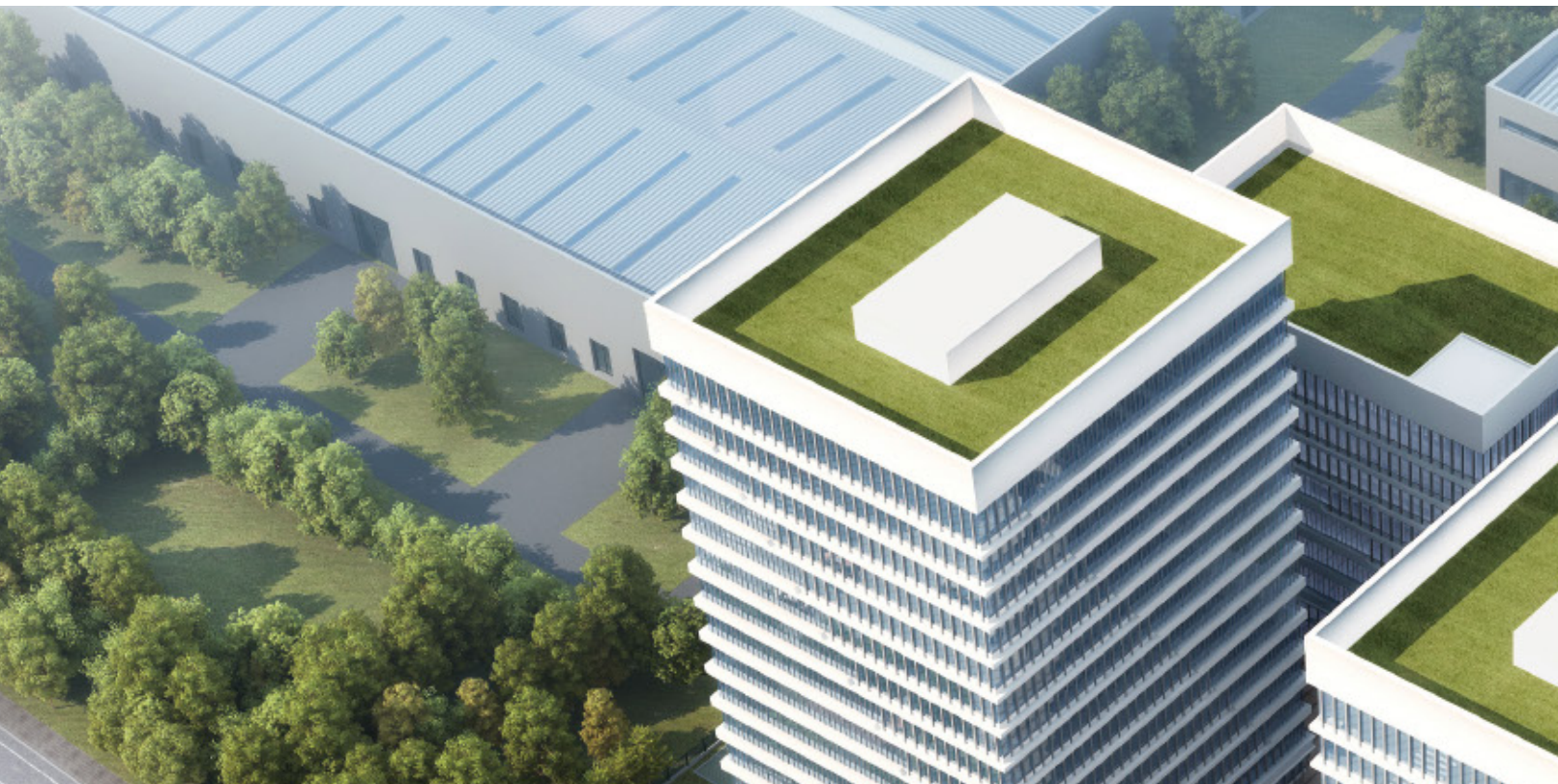
A large circular graphic on the right side of the page. It features a blue border and a central image of a modern building with a glass facade, set against a bright, hazy sky with a sunburst effect. The text "FCS Catalogue 2022" is overlaid on the image in a white rectangular box.

FCS Catalogue 2022



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Falco solution company was founded by a people group who has experienced practitioners from diverse fields such as professional experience with Enterprise Network, Wireless, Server, Security, Telecom, Programming solution. We have experience in IT Outsourcing services in over 30 years. And We have extensive experience in Consulting, Planning, Design, Installation Networking for large enterprises. The company is registered to import medical devices legally in Thailand. Face Recognition devices are legally certified by the FDA.



2015  
Set up

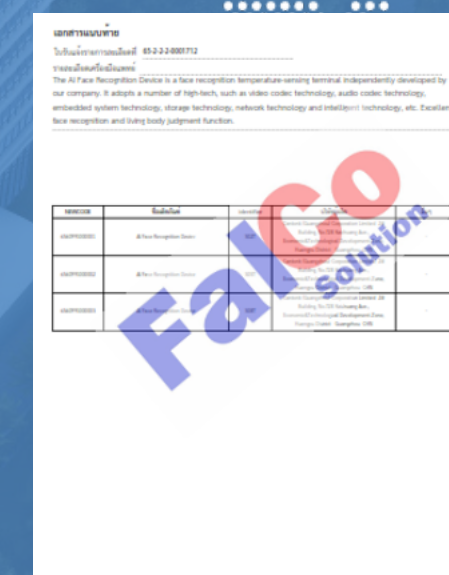
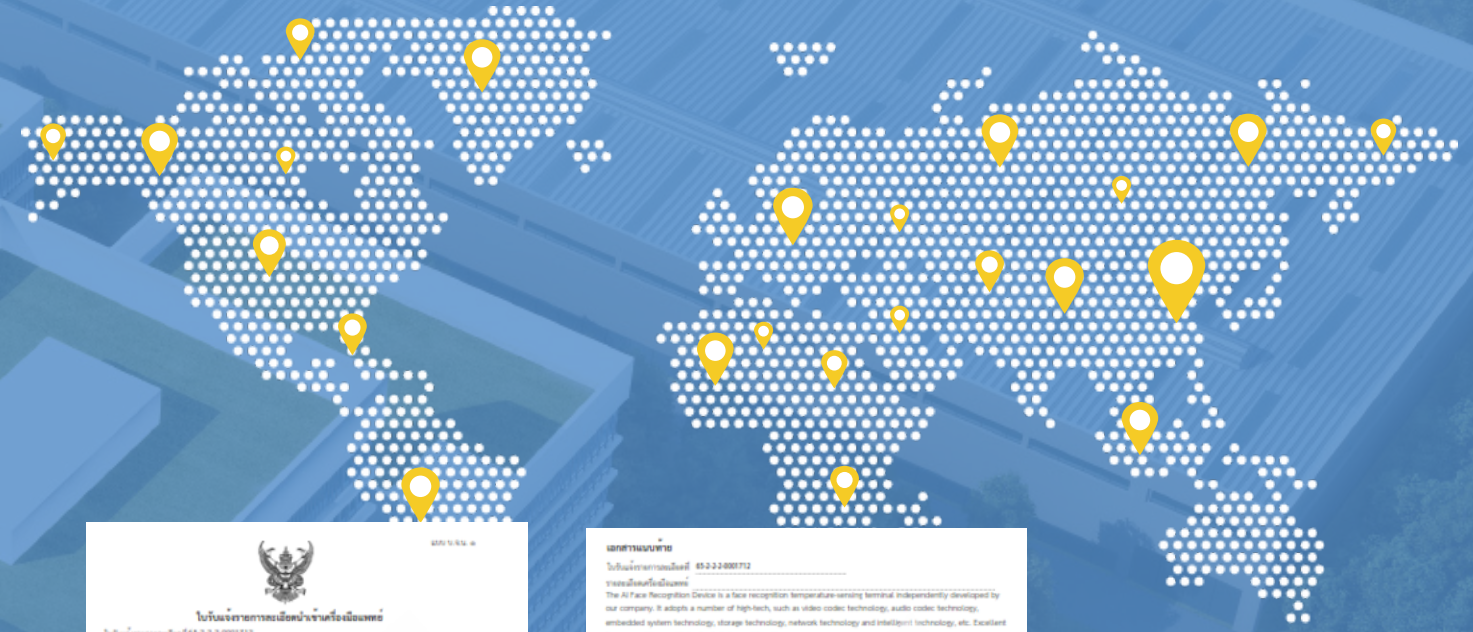


100m<sup>2</sup>  
Area



20Eng.  
R&D Team

## Location



สำนักงานคณะกรรมการอาหารและยา  
กระทรวงสาธารณสุข



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65-2-2-2-0001713



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65-2-2-2-0001712



A graphic featuring a blue wireframe head in profile, facing left. The head is composed of a grid of lines with glowing blue dots at the intersections. To the right of the head, there are several horizontal blue bars of varying lengths, some with glowing ends, creating a sense of motion or data flow. The background is dark blue with some light blue streaks.

**FalCo**

# AI Thermal Optical Device

## Rapidity

Body temperature can be detected in 1 second.

## Non-contact remote measurement

The subject takes a temperature measurement 6-8 meters away from the lens.

## Sensitivity

Suitable for long-distance search and detection of people in areas with heavy traffic.

**AI**

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## Smart Face Recognition Temperature Screening

Temperature measurement and attendance



Temperature Measuring



Face Recognition



Fever Warning



Face Database

A thermal image showing a crowd of people. The people are represented as bright yellow and orange shapes against a dark red background. One person in the foreground is more clearly defined than the others.

**FalCo**



# Access Control Attendance

Face Recognition Device



## FalCo



S03

Face Recognition Device



S03T

Face Temperature Device



**Intelligent**

Face Recognition



**Professional**

Attendance



**Convenient**

Wireless



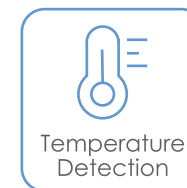
**Efficient**

Audio In/Out



## AI Access Control Series

Temperature Measurement Device

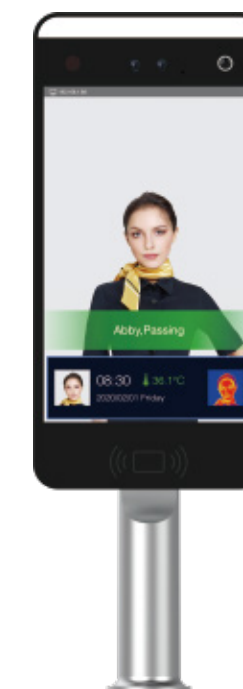


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S02T

7 inch ISP LCD screen



S05T

10.1 inch ISP LCD screen



S03T

5 inch ISP LCD screen



GB15210-2003  
International safety standards

# Metal Detector Security Gate

For Bi-Spectrum Temperature IPC

36.5°C

Display the passing  
pedestrian temperature

0004 0003

Display the number of people  
and passing alarms

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AI Bi-Spectrum IP Camera



1.5M  
Temperature  
Detection Distance

- Temp. Detection
- Metal Detection
- Sensitivity
- Sound & Light Alarm
- AI Function
- LED Screen



Three Roller Gate  
Single Movement

S280G



Wing Gate  
Single / Dual Movement Optional

S300GS/S300GD



Anti-collision Swing Gate  
Single / Dual Movement Optional

S186GS/S186GD



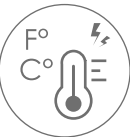
Floor Pole Brackets

Table Brackets



# AI Thermal Bi-Spectrum

4MP IP Camera



High Temperature Alarm



Fire Prevention



Intrusion Prevention



Face Detection



Multi-person measurements up to 2-3m distances  
Accurate temperature 5-8 faces  
Built-in 50,000 face database

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S5003T



Highly Accurate  
temperature measurement

$\pm 0.5^{\circ}\text{C}$   
No Black Body

$\pm 0.3^{\circ}\text{C}$   
With Black Body



BK02

Black Body

Assist thermal camera  
more accuracy.

S5002T

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# Barbary IoT BT Beacon WiFi Product

“ Quality, Diversity, Innovation.  
See what IoT BT Beacon has for your  
advanced solutions.



### Enhanced Beacon

- Waterproof IP67 / IP68
- Long range 985 ft
- Extremely temperature -40°C
- Long battery lifetime 10 yrs
- Anti-explosion

### Sensor Device

- Temperature
- Humidity
- Accelerometer
- Ambient light
- Pressure etc

### BLE to Wi-Fi Gateway

- Bluetooth 5.0
- IoT development kit
- Cloud platform

### Electronic Shelf Label

- Bluetooth 5.0
- Different colors & sizes
- ESL cloud platform

### Barbary Connect V2

- ESL Development Kit
- Location service (AoA/AoD)
- Smart Wearables

### Barbary Connect V3

- Deep Integration of ESL & LBS Products
- LTE/NB-IoT & GPS
- UWB Device
- IoT Sensors

## Cutting-edge Technologies

**MESH Compatibility** hardware device which can be compatible with mesh network, alongside the high-quality services based on mesh network infrastructure.

Counted on Mesh network compatible technology, Barbary provides scalable and cost-effective hardware devices e.g BLE tags and sensors. Our devices build up the essential part of node and anchor in the mesh network, realizing cable-less communication.

Compatible with your solution, facilitates an easy to install and scalable location system for a wide range of applications such as warehouses, hospitals, etc., consisting of a cable-less infrastructure for asset tracking without any complex planning or cabling cost.



High Reliability



Faster Connection  
& Running



Easy Scalability

**AoA RTLS** Angle of Arrival(AoA) – High-precision positioning with the AoA method.

Barbary uses the powerful AoA technology for real-time tracking of BLE tags and devices with meter accuracy. High accuracy indoor positioning. Boost efficiency and secure safety in all industries.



High Accuracy



Wide Applicability



Scalability



Strong Compatibility

**Zone RTLS** Real-time zone-based localization based on RSSI and trilateration.

Zone RTLS is the most advantageous tradeoff between cost and performance, for real-time estimate of presence and position of people and assets in operating environments. Based on trilateration algorithms, provides reliable estimate of BLE tag position with accuracy of a few meters. Real-time tracking and localization of people and assets in plants, warehouses, hospitals, and for presence/access control.



High Adaptability



High Location Update Rate



Low Latency

# Applications

“ Automate and advance your solutions performance with Barbary wireless BLE Beacons, sensors & gateways.



### Smart Warehouse / Logistic

Monitor usage and movement of material and other assets inside your facility. Manage Inventory with instant visibility and track its physical location based on connected sensors and data storage platforms.




### Smart Healthcare

Enhance the quality of health care and improving ease of access to health records while maintaining reasonable costs globally.



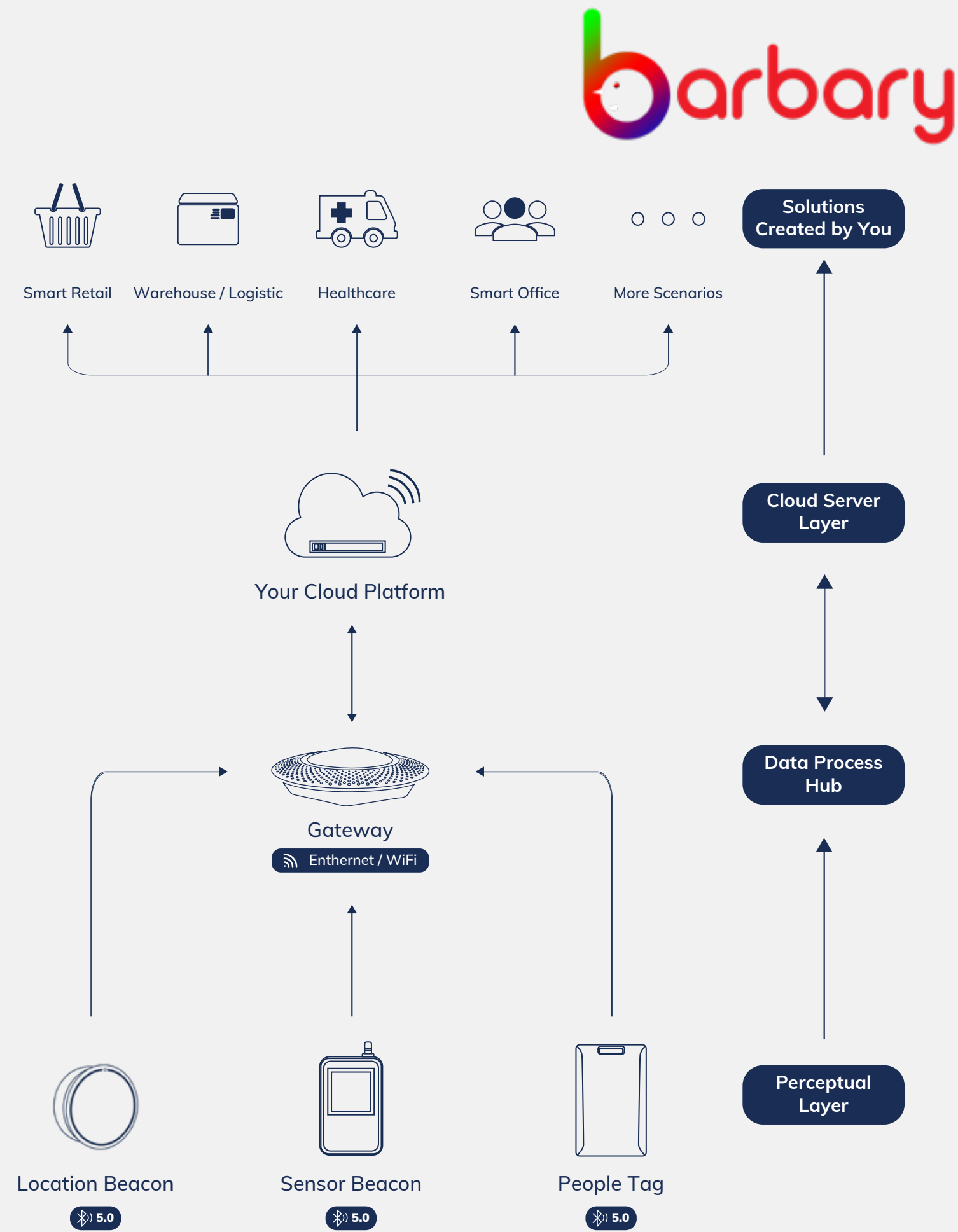
### Smart Building

Offer significant new opportunities to improve the efficiency and sustainability of buildings, the IoT can raise employee productivity as well as stimulating the development of innovative services.



### Smart Retail

Electronic shelf labels increase the efficiency of the store and reduce the labor costs. Set up a proximity marketing campaign with Beacons and let you target users with messages based on their specific location.





# Bluetooth Beacon

## Making beacons more accessible and beyond



Beacon/ iBeacon is a low-energy consumption Bluetooth device for positioning and marketing. BT Beacon manufactures the i-series, C-series and E-series of Beacon for customers to effectively deal with different demands.

- Information Advertising
- Notification and interaction
- Safety Tracker
- Indoor Navigation
- Healthcare Monitoring

## Features



BLE 5.x technology



Supports iBeacon & Sensortag protocol simultaneously



More than 37 different sizes and types for option



Ultra-power consumption SoC (eg. Nordic)



Advertising ranges from 1 to 984 feet



10 years lifetime(Max.); Replaceable battery



IP67 / IP68 Waterproof



Configuration app BeaconSET+



SDK & API available for iOS and Android



### Sensor Beacon

Accelerometer: E8  
Ambient light sensor: S2  
Temperature & humidity sensor: S1 / S3

### Location Beacon

Models:  
i7 / i10 / E2 / E5 / E9 / P1 / P1 Plus

### People Tag

Models:  
B6 / B7 / B8 / B9 / B10  
C6 / C10 / D15N

### Asset Tag

Models:  
i6 / E8 / T3

### USB Beacon

Models: U1(UART protocol inside)



\* Also, we can provide you with white-label and firmware programming services.



# IoT Gateway

G1 is a Low Energy Bluetooth® 5.0 (BLE) to Wi-Fi connectivity gateway with PoE. The G1 gateway collects the data from iBeacon, Eddystone, BLE sensor and other BLE devices. Then it sends the data to the local server or remote cloud server by HTTP/ MQTT protocol over Wi-Fi or Ethernet. It has passed Bluetooth® EPL, CE, FCC, RoHS and Reach certifications.



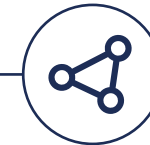
## Independent R&D

Designed as a controlling center for managing electronic shelf label, and real-time monitoring in batches.



## Multiple Transmissions

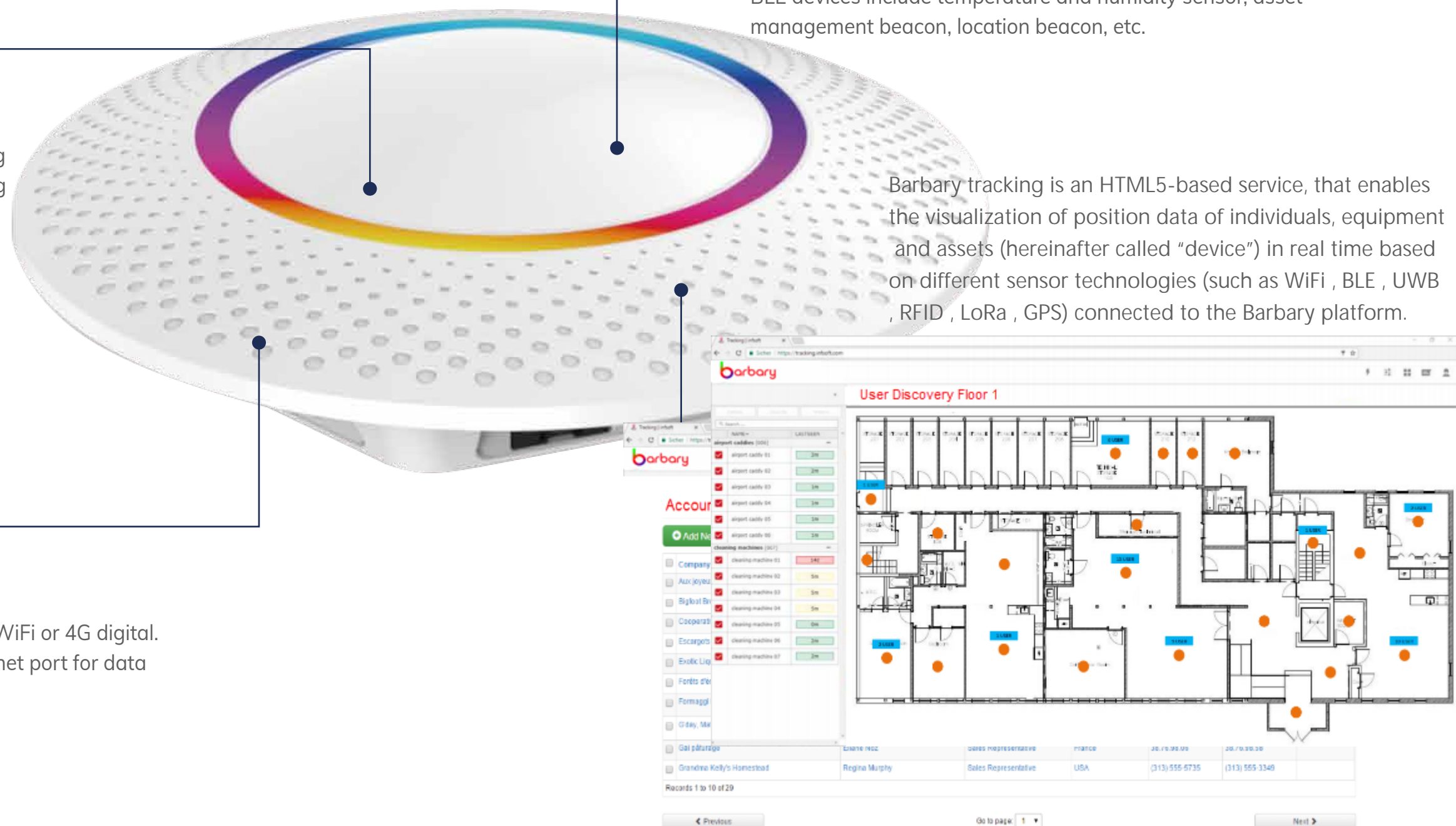
Connecting Gateway by cable wire, wireless WiFi or 4G digital. And connect it to the Internet by WiFi or PoE net port for data uploading to the Cloud.



## Extensive Connection

With super high sensitivity for Bluetooth® signal receiving, IoT Gateway is capable of interconnecting every object, by detecting BLE devices data and identification monitoring. BLE devices include temperature and humidity sensor, asset management beacon, location beacon, etc.

Barbary tracking is an HTML5-based service, that enables the visualization of position data of individuals, equipment and assets (hereinafter called "device") in real time based on different sensor technologies (such as WiFi , BLE , UWB , RFID , LoRa , GPS) connected to the Barbary platform.





# AoA G2 Gateway Kit

## Light up Your Map



AoA G2 gateway kit, the latest Bluetooth hard-ware with emerging Angle of Arrival technology, which contains one gateway G2, four AoA locators, five pcs 19.7 feet network cables, delivering sub-meter class accuracy indoor positioning based service in all industries.

- Shorter Time for Item Finding
- Building Security
- Workflow Optimization
- Regulatory Compliance
- Positioning & Tracking



### Sub-meter Class Accuracy

Collect precision data based on the Angle of Arrival technology and Bluetooth® 5.1.



### Greater Coverage for 4300 ft²

Super wide communication range with only one gateway and four locators at the height of 9.8 to 19.7 ft.



### Higher Throughput

Up to 1000+ DP p/s throughput for data packet enabling high speed of data processing for improving efficiency and enormous data transmission.



### Faster than Ever

Real-time transmission and ultra low latency greatly reducing mistakes and accidents caused by time difference.



### More Mobile Beacons Tracked

High performance of G2 ensuring more mobile beacons to be tracked for cutting down the cost of infrastructure deployment.



### Easier Installation & Deployment

Just lay or screw according to the easy-to-follow instructions to lower the installation & deployment fees by effortless procedure.



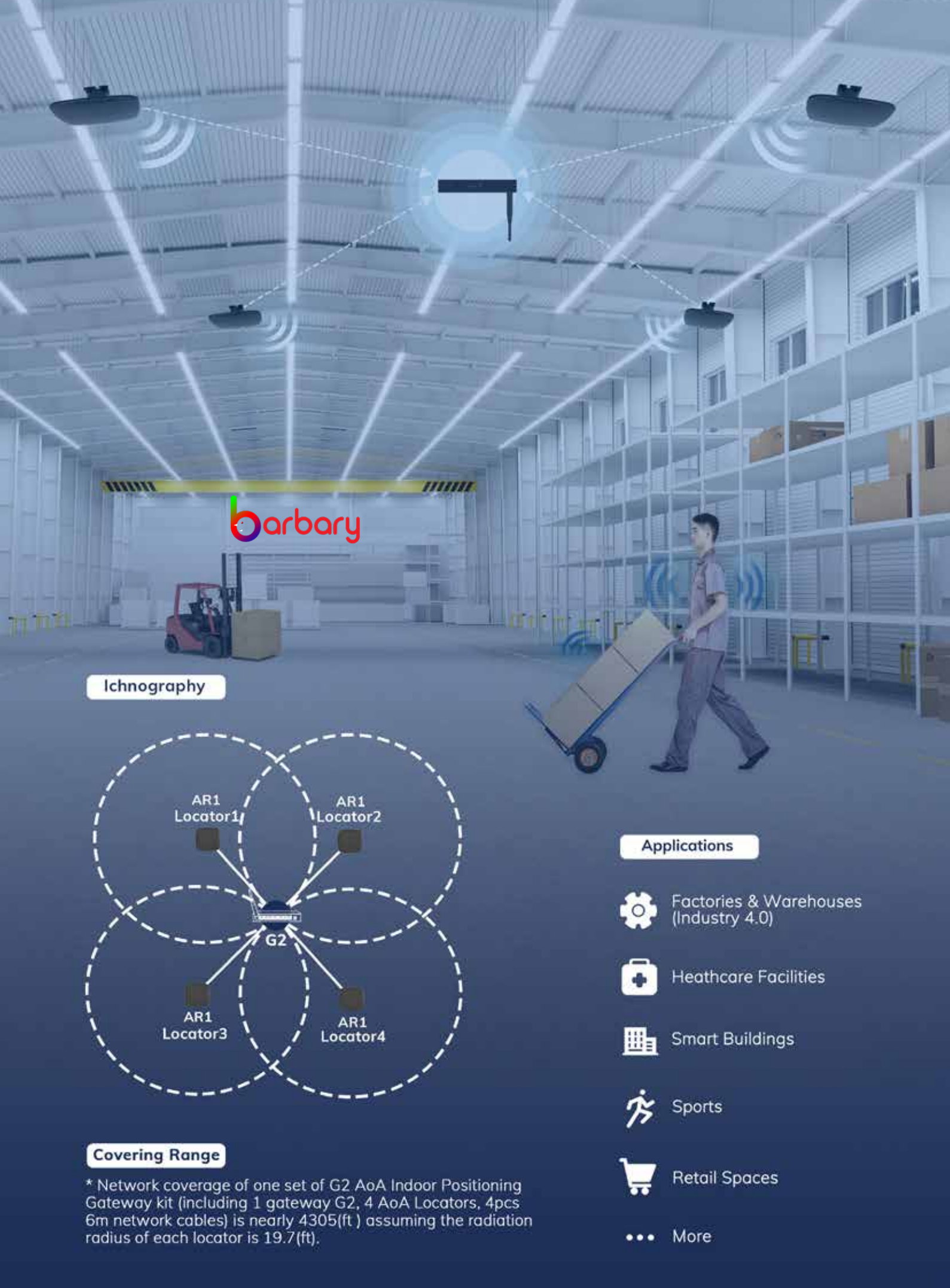
### All New Design with Longer Service Life

Sleek and stylish design. With outstanding durability against heavy impact and hard indoor environment, G2 kit can be widely used in all industries.

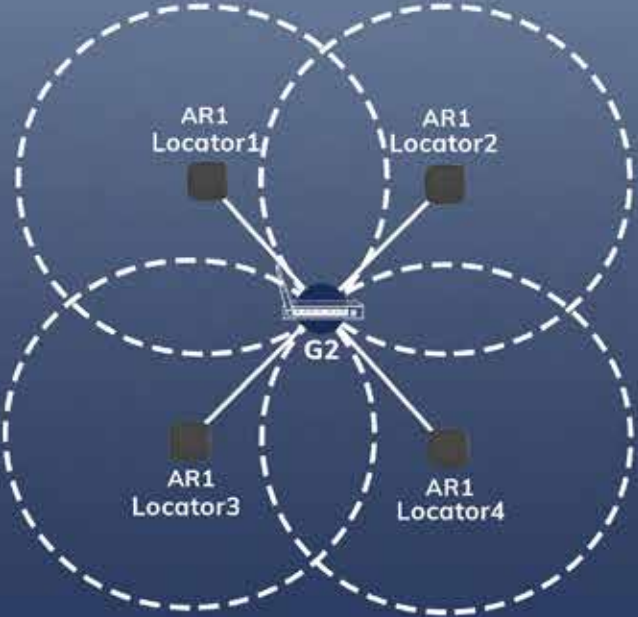


### Compatible with Multiple Platforms

High scalability and compatibility for supporting AWS / Azure / ARM mBed IoT Cloud Platform.



#### Ichnography



#### Covering Range


\* Network coverage of one set of G2 AoA Indoor Positioning Gateway kit (including 1 gateway G2, 4 AoA Locators, 4pcs 6m network cables) is nearly 4305(ft²) assuming the radiation radius of each locator is 19.7(ft).

#### Applications


- Factories & Warehouses (Industry 4.0)
- Heathcare Facilities
- Smart Buildings
- Sports
- Retail Spaces
- ...




# Electronic Shelf Labels




E-ink Paper




Bluetooth 5.0




Built-in LED Lights



NFC Function



Three-colors Display



Customized Template

**IoT Tag** is an self-developed, -designed, -produced electronic shelf label, based on BLE 5.0 technology, increasing operational efficiency, automating 'low value-added' process-es, and providing better customer experience for various industries in a centralized cloud platform.



## Highlights



### Higher Efficiency

Update in one click, refresh in seconds, quick info change in various applications by utilizing Cloud system of electronic tag from FCS.



### Lower Power Consumption

E-paper with high resolution and contrast plus Bluetooth 5.0, enable ultra-low power consumption with battery life can be up to five years.



### Data Security

Each electronic tag has unique ID number. Connection and transmission via Bluetooth 5.0 ensure data security.



### Multi Terminal Management

Connect with ERP, MES, or handhelds to manage in Cloud, enabling timely, flexible and convenient operations through PC and mobile devices.



### Digital Operation

Realize digital operation by interconnecting IoT products to build up Big Data for data analysis and environmental monitoring.



### Personalized Customization

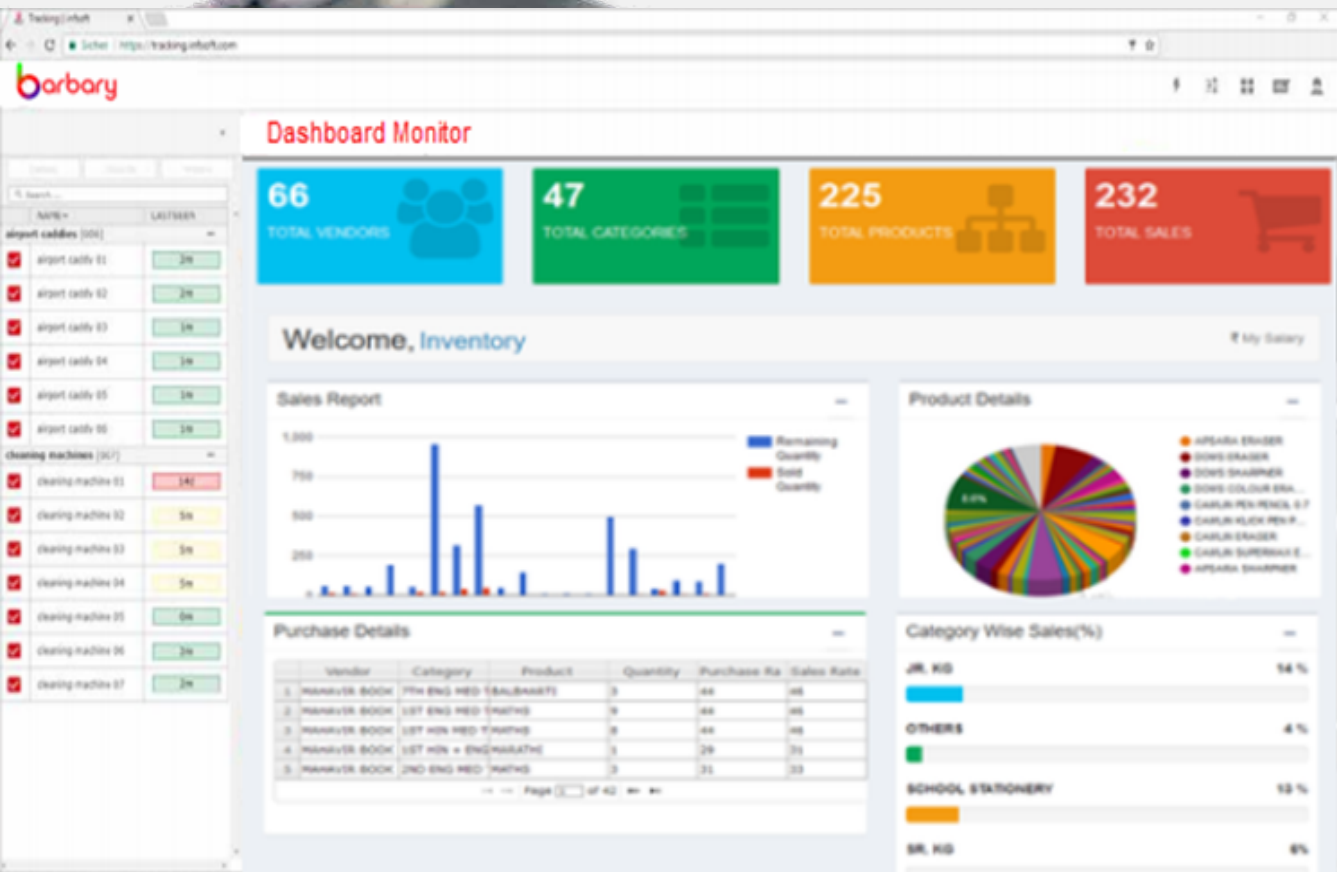
Provide solutions to the size, appearance, technology to typesetting style and so forth to fully meet the diverse needs of different customers.



# IoT Module

Barbary IoT BLE 5.0/5.1 module integrates low consumption, powerful Nordic Semiconductor state of art nRF52 series SoCs, implemented with excellent Bluetooth® connectivity and eminent RF performance.

Barbary Indoor Tracking Software bundle license gateway ,  
Barbary Indoor Tracking Software Client License



## Bluetooth 5.x

Based on the latest Bluetooth 5.x, Module covers larger range, transmits in faster way, contains bigger data capacity and consumes lower energy, the better choice in Bluetooth serial passthrough, high rate and long distance data transmission, industrial IoT sensor and controller applications, smart wearables and home devices, etc.



## Bluetooth Mesh

Module embedded devices and Bluetooth Mesh networking partner to realize better cover-age, smart management, stronger connection, easy configuration and more flexible customiza-tion, establishing Mesh-enabled IoT system.



## Low Consumption SoC

Cutting edge Nordic Semiconductor nRF52 series SoCs enables Bluetooth Low Energy module collections with multiple protocol capabili-ties, high flexibility and ultra low power.



## Cost-effective

Always assured of quality and performance, IoT is the original manufacturer of Bluetooth modules and has obvious price advantages. We have the competitive and industry-leading modules with global certified, in our own factory. Ready to deliver worldwide.



## Compact Size

Dealing with the demand to drop-in BLE connectivity into wearables, portables and upgradeable appliances to enable IoT functionality, Module with compact size meets consumers' wireless performance and range expectations by our RF tuning design expertise.



# 16CH-32CH IoT High Power Switch

SAKER 16CH 32CH High Power Switch Actuator has 16 and 32channels (10A for each channel) and 16A magnetic latching relay. With low power consumption and long lifetime, the module has manual control switches and supports scene and sequence control.

SAKER IoT Modbus RTU DC 12V 10A 16/32 Channel CH DIN Rail RS485 Relay Module Board with DIN Rail Box for PLC PTZ Camera Motor LED UM72



SK-CONB-16CH

LoRa IoT Long Range Wireless GW



Smart Ultrasonic Water Meter



Single Phase Energy Meter

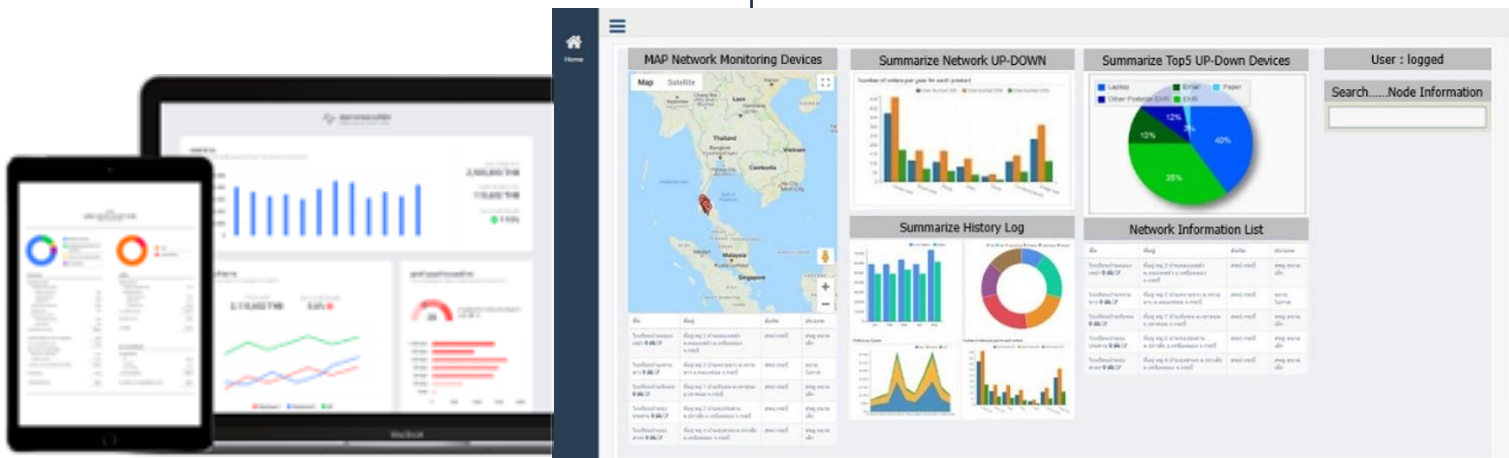


FalTel Industrial IoT 4G WiFi GPS Controller



SK-CONB-32CH

Intelligent Electric Smart Power Meter



SAKER Building Management System Smart Solution



Monitor Everything in Your Network and Easy to use!  
We make it simple monitoring, alerting, log, reporting for you.

