



HaiTai
Technology

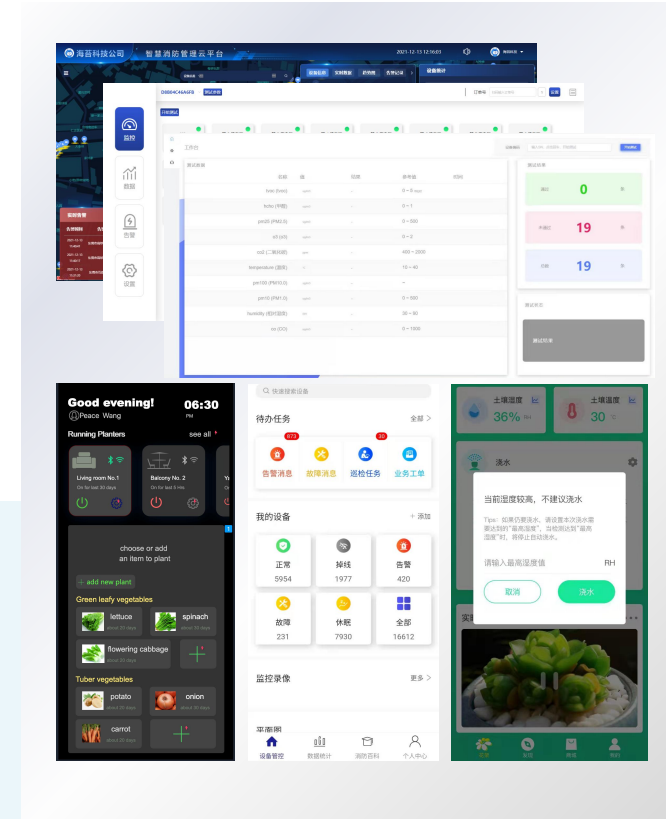


DAQ Module

Lora/Mobus/4G



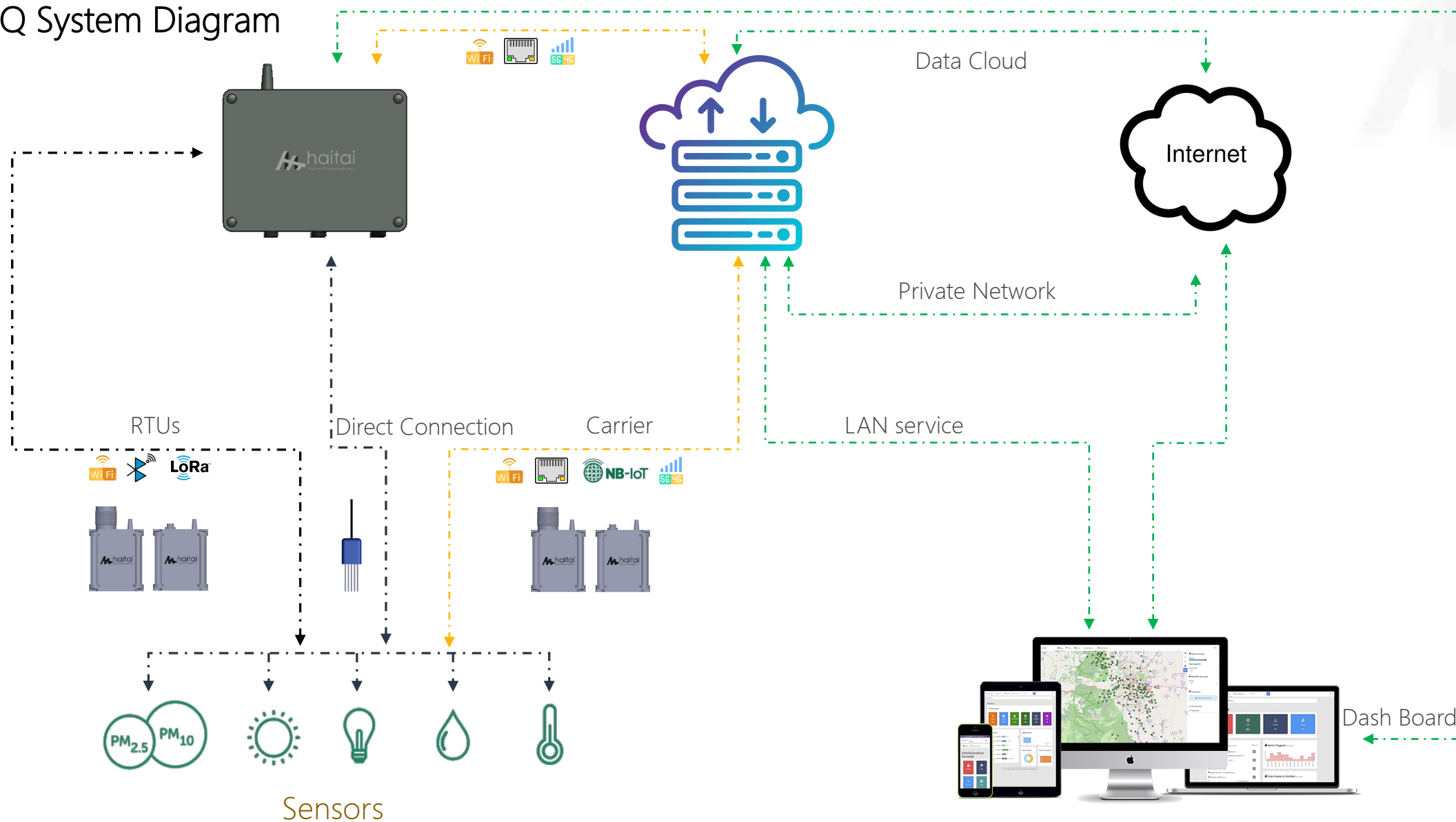
Smart
Gateway



DAQ Software

Cloud/PC/Mobile

DAQ System Diagram



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DAQ Edge Gateway

Connect your sensor easily

The device is designed for a quick, easy and cost-efficient product of serial port sensors. The device combines plug-and-play sensor hardware with an easy-to-use software. it makes it possible to display and log the sensor signals for multiple sensors connected to the gateway on the same PC.



Plug and Play, Easy to Extend, Smart Control

It supports to connect RS485 sensors directly, monitor the soil data by NPK, Soil moisture, soil temperature, EC and PH sensors; the weather and environmental data such as wind direction, wind speed, barometric pressure, temperature, humidity sensors. and other datas based on different sensors. it aggregates data from in and around the application and transforms it into useful information. Also it can control other devices and excute the process as edge unit and updates with data center via RS485, LAN/WAN, Lora, 4G communication.

Edge Gateway Description

fast your sensor application

Generation Specification

- NUVOTON ARM9 300MHz CPU with DDR 64MB RAM
- Support web service for remotely online monitoring
- Firmware update by USB dongle and Over to Air
- Data logger on flash
- Support data updates by Mobile via bluetooth.
- Support SIM slots for communication redundant
- Support MQTT Client for cloud communication
- Wide Operating temperature: -40 ~ 70°C

Relay

12V/24V on/off

3 supply ports controlled by relay from MCU

Network

Wire/Wireless

1xLAN/WAN

1xLora/ 4G/Lora+4G

Ports II

Ports with 5V Supply

1 x USB2.0 Port

2 x ports RS485

Ports I

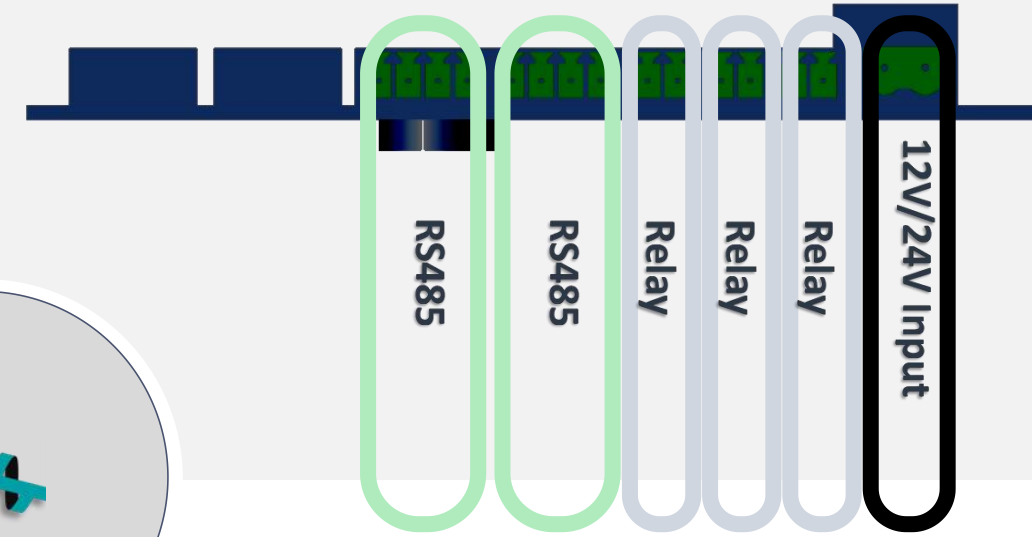
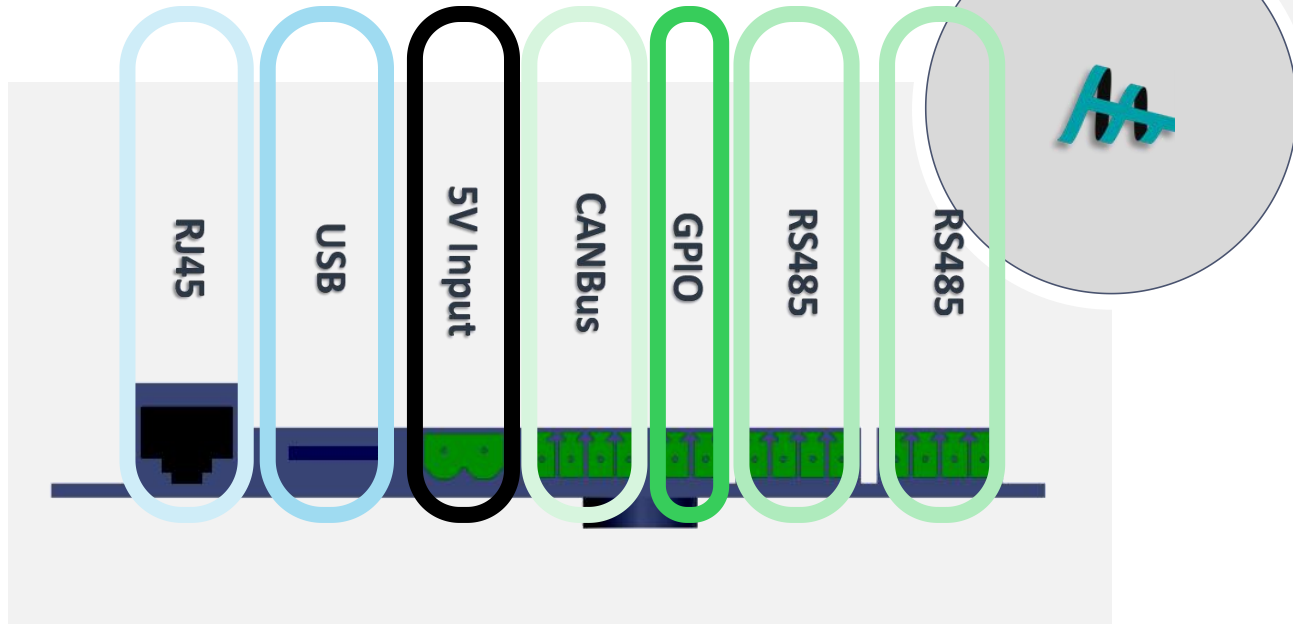
Ports with 12V Supply and General Port

2 x RS485+ 1x CANBus+1 x GPIO

(each port with 12V supply ports for sensors)

Gateway I/O Ports

Easy to expand your application



I/O Connector

Fix the cable by the screws with the connectors.

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"Better Choice For Service"

Sensor

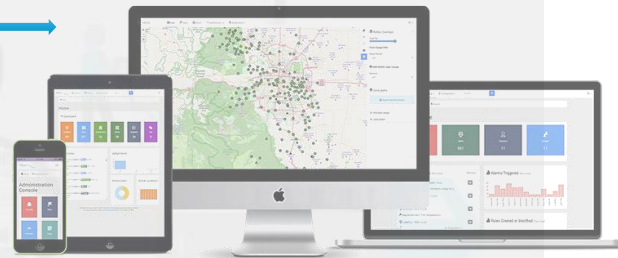


DAQ Edge



Data process and
Edge control

Operation



Monitoring and
remote operation



*Make your
application
easily*

A recent innovation is the combination of data acquisition and control, where a high-quality DAQ Edge system is connected tightly and synchronized with a real-time control system.



Data Acquisition

Temperature, Voltage, Current, Strain and Pressure, Shock and Vibration, Distance and Displacement, RPM, Angle, and Discrete Events, Weight.



DAQ Application

Data recording, Data storing, Real-time data visualization, Post-recording data review, Data analysis using various mathematical and statistical calculations, Report generation



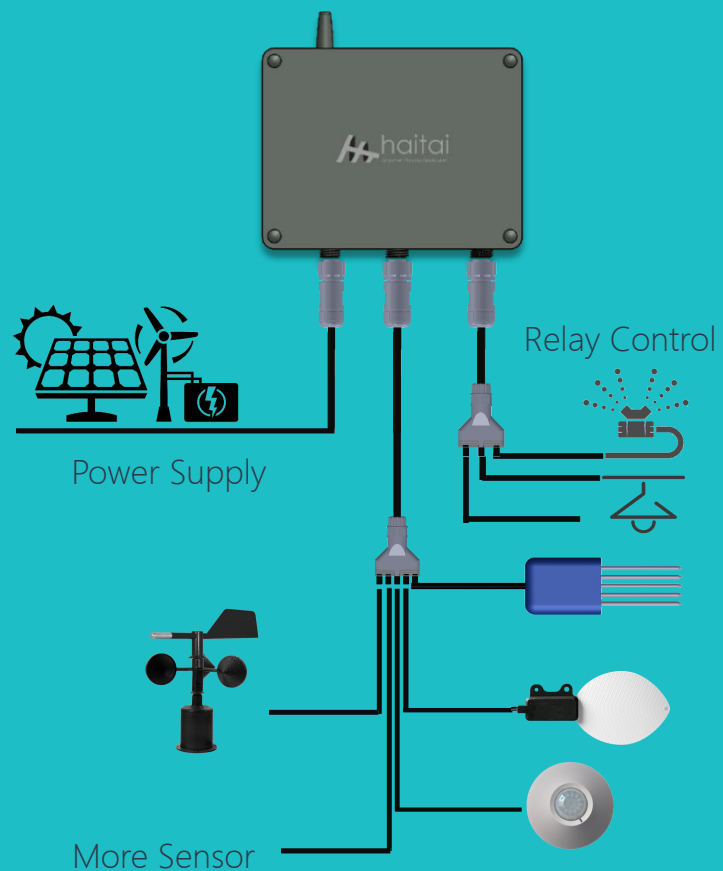
Service Controlling

Haitai Edge gateway hardware includes an embedded controller, with fully featured operating systems designed for data acquisition

Data Acquisition, Monitoring, and Controlling

a new way for your sensors

Through wired and wireless methods connect data of sensors and transducers, process the data and alarm, the operation can be customized by the functions in the system, and then the devices can be controlled locally or/and remotely through computers and mobile terminals.



Gateway DAQ Application

Easy your edge service

DAQ (data acquisition) system consists of a collection of hardware and software for sampling physical parameters such as voltage, current, temperature, and strain with a sensor or RTUs. The system enables engineers to condition and convert samples into digital data for capture, live monitoring, analysis and process application.

The haitai Gateway Plug&Play for sensors and RTUs via RS485, GPIO, CANBus. and fast your application service setting by simple configuration.

Haitai DAQ gateway is designed with data logging, edge processing, event management for data acquisition, process monitoring and application controlling.

Specification

Edge Gateway

Power Supply	12V DC input	
	Support 5V DC input (LPW)	
I/O	RS485 port (4pin: A,B, +,-)	4 ports
	12V output Relay Control	3 lines
	USB 2.0	1 port
	100M Port	1 port
Communication	WiFi 802.11/	
	Ble	
	4G Module/Lora/4G+Lora (Option)	Mini PCIE



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Specification

Environmental probes

It is suitable for temperature and humidity, air quality and gas monitoring applications in greenhouse planting, production workshops, storage places, breeding and other environments.



Power	Built-in lithium battery	Option
	5V DC input	
Sensors	Air humidity	Accuracy 1%
	Air temperature	Accuracy 0.5°C
	Gas monitoring	Formaldehyde, ammonia, cigarette smoke, alcohol
	Air quality	PM2.5
Communication Mode	Lora	
	working frequency	410~480MHz, Customization
	Transmission	3000m
	Rate	0.3~19.2kpbs

Specification

External probes

It is suitable for temperature and humidity, air quality and gas monitoring applications in greenhouse planting, production workshops, storage places, breeding and other environments.



Power	Built-in lithium battery	Option
	5V DC input	
Sensors	External	RS485/Modbus
	Power supply	5V
	Plug	4pin IP68 aviation Connector
	Extend	one to multiple cable
Communication Mode	Lora	
	working frequency	410~480MHz, Customization
	Transmission	3000m
	Rate	0.3~19.2kpbs

Haitai Technology

Closer to life

Shenzhen HaiTai Technology Co., Ltd. is an AIoT solution provider. Focus on the development and service of data acquisition and monitoring products based on edge, cloud and mobile application, Quick application for data acquisition, monitoring and process control, in order to provide smart service tools and solutions for industrial production, automation, agriculture, forestry and horticulture.



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HaiTai Value

Fast your data application

Objective

Build reliable data acquisition and data management services for customers

Mission

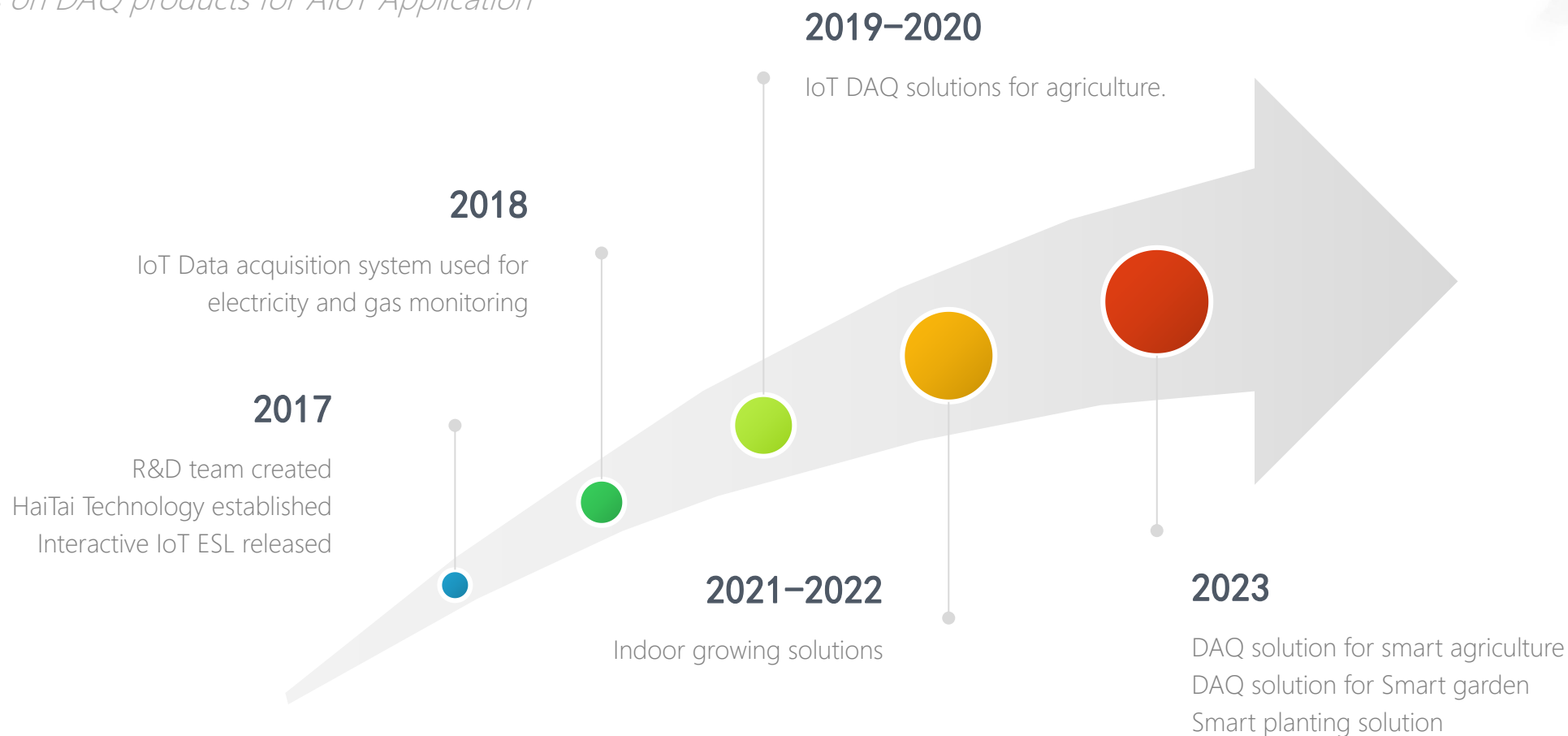
Enable users to obtain rich process experience and product services by data.

Vision

Safe and reliable DAQ IoT products and service provider for process management applications.

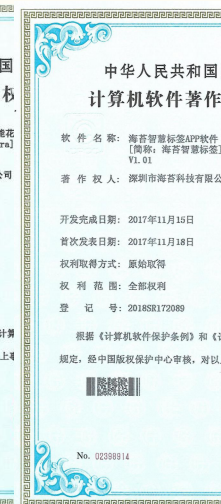
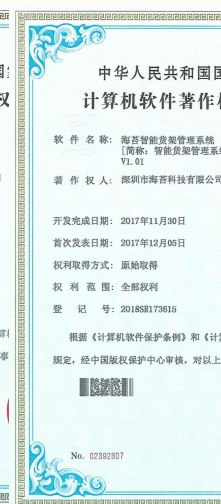
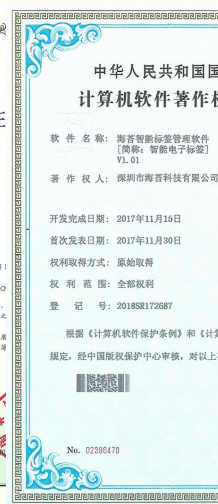
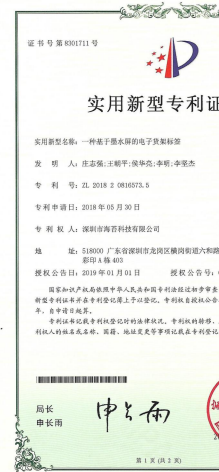
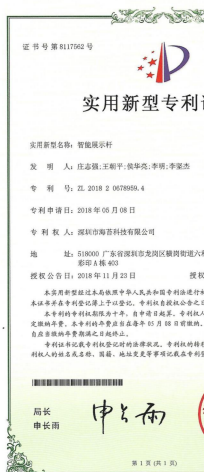
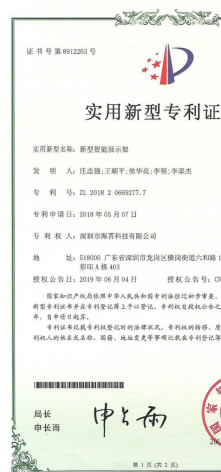
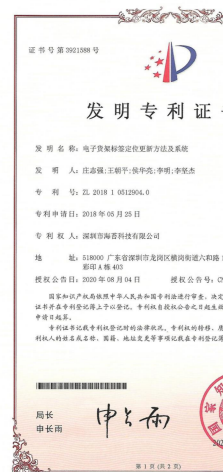
Compay Process

Focus on DAQ products for AIoT Application

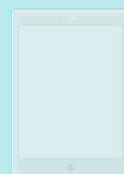
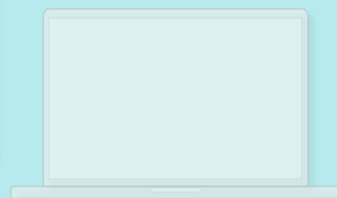
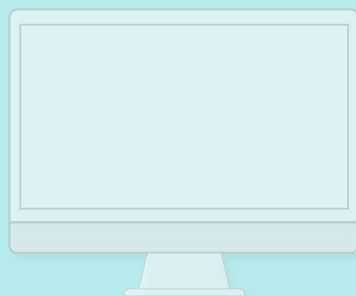


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Honor&Patens



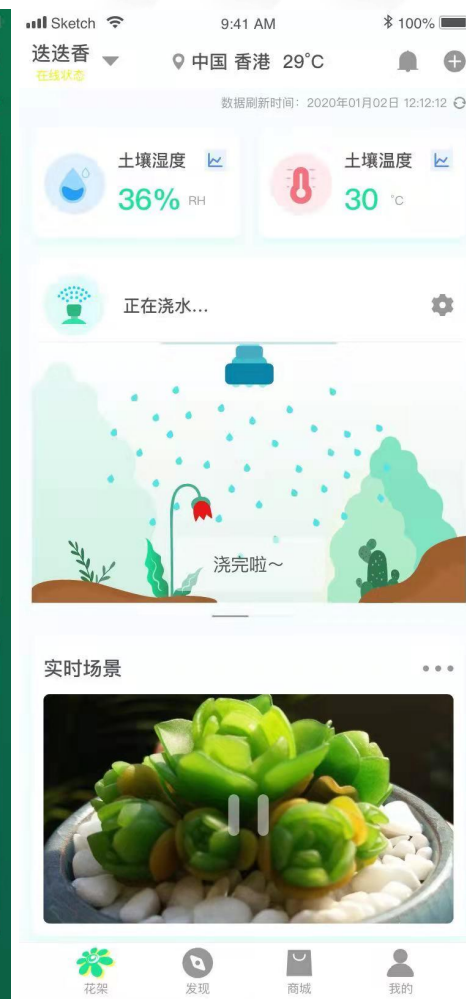
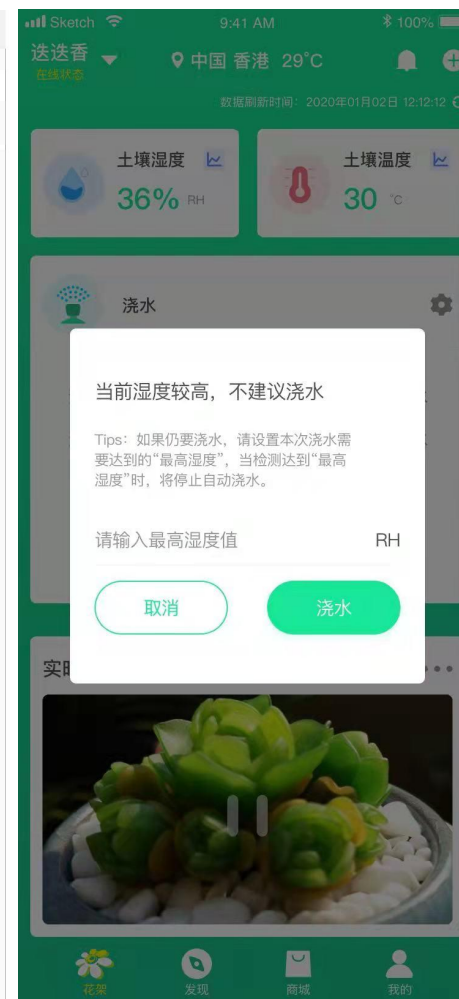
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Application Cases

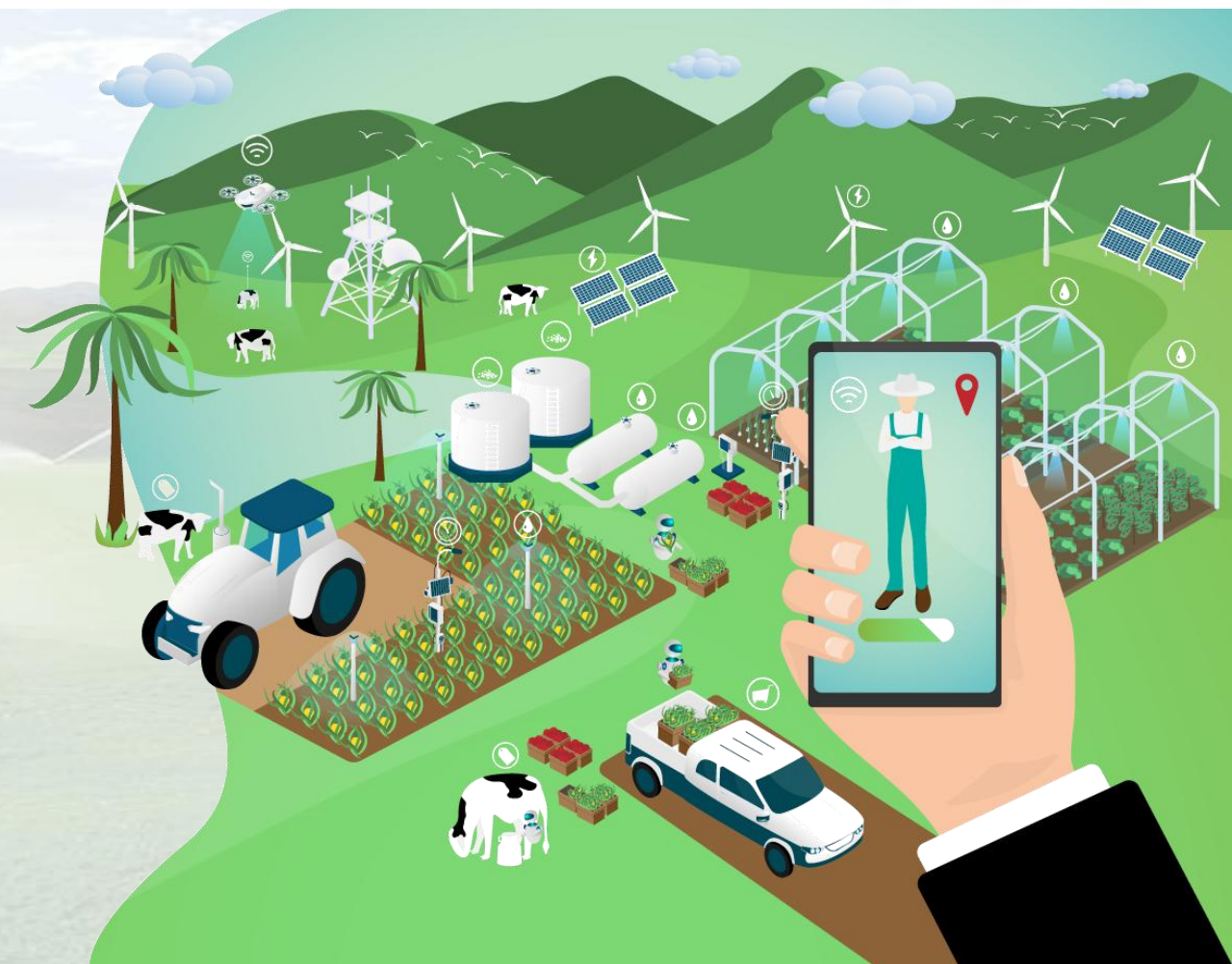
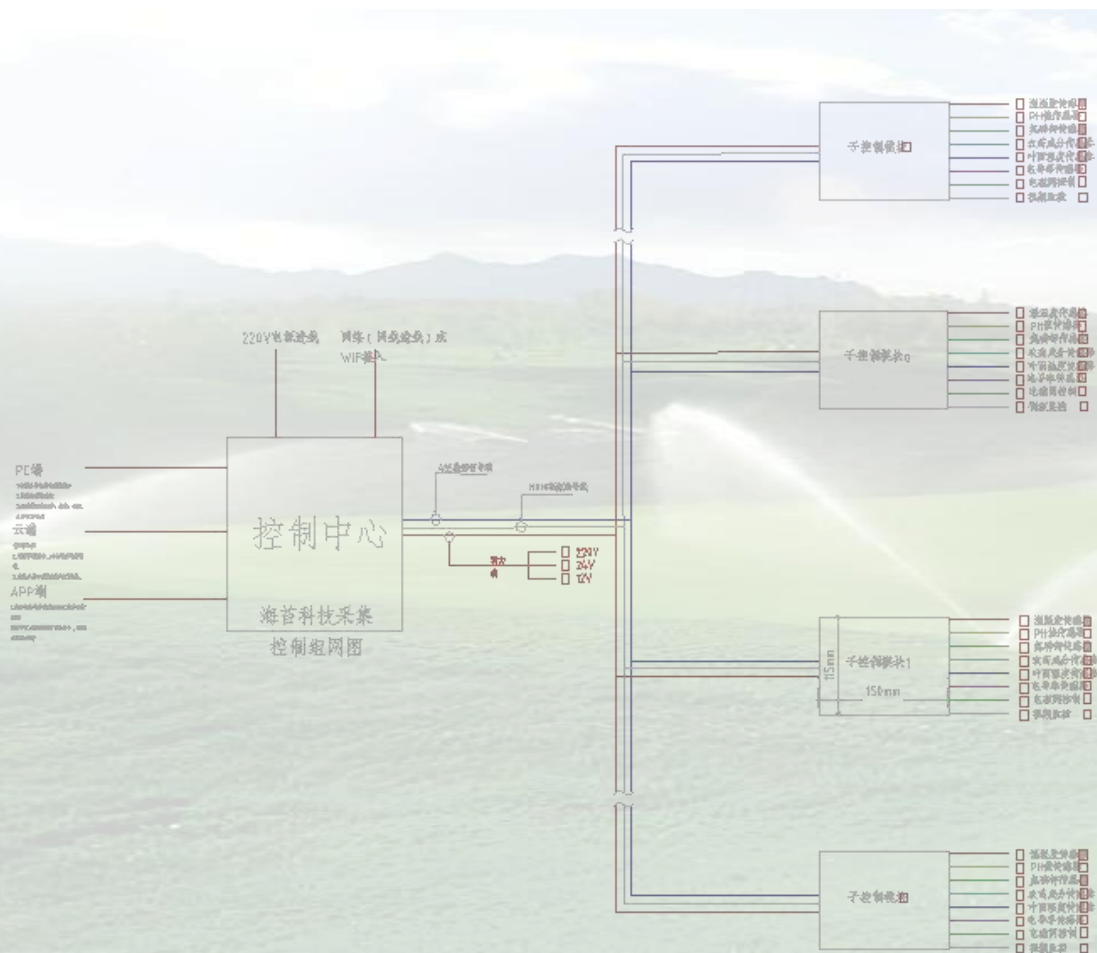
Application

Smart Garden



Application

Smart Agriculture



Application

Data Monitoring and Management

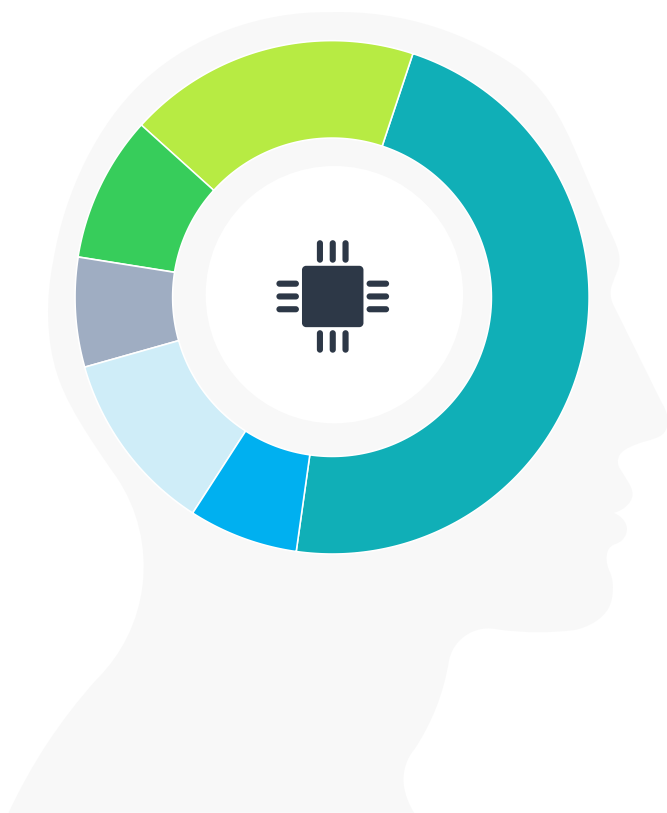


Application

Data Acquisition



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