THT Multi-Control HUB

Integrate Various Devices and Sensors

Achieving compatibility with a wide range of devices and manufacturers

To ensure scalability and versatility, we have developed our own platform and controller that are not bound to any specific manufacturer.
This allows us to build optimal and tailored environments that meet each client's unique needs.

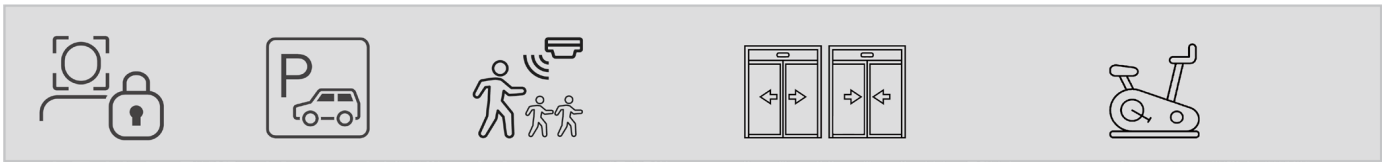
Circuit board for controlling sensors
MS-CB001

Sensor Controller
MS-PC001

Software for controlling electric locks
MS-SW001

Simple architecture for centralized management

Up to A single compact PC can integrate up to 10 circuit boards.
An intuitive GUI enables centralized remote control of scheduling and terminal management.

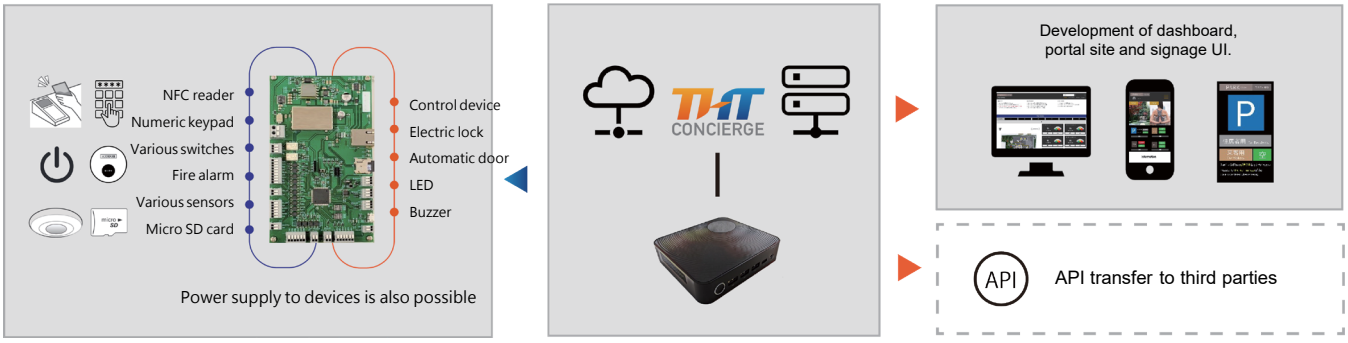


Electric lock	Parking lot	Camera sensors	Door opening / closing control	Facility / Equipment management
Biometrics	Counting in / out	Number of entering / exiting	Daytime: Automatic door	Usage status of facility
Personal authentication	Number of available parking spaces	Provide position feedback	Nighttime: Unlocking with authentication	Equipment availability
Card authentication	Location of a parked car	Crowd detection	In case of fire: Automatic unlocking	Facility / Equipment reservations

DX
Connecting versatility and scalability IoT devices to each other with a HUB

UX
Controlling and monitoring connected IoT devices

CX
Data Visualization as a Service



Construction Costs | Development Costs | Development and Integration Costs

Operations and Maintenance Costs

Please leave everything to us, from implementation consulting to operations and maintenance.

THT offers one-stop support for devices with different communication standards and from various manufacturers, covering everything from consulting and design to installation, operation, and maintenance,.

Planning & Project Management › **Device Deployment Device Management** › **System Setup Development Work** › **Operations Maintenance** › **On-site Support Staffing Services**

CONTACT

Tokyo Preservation communication Co., Ltd. TEL +81-3-6452-8911 https://tht.co.jp

Behind the Scenes of Hardware Development

—The Story of THT Multi-Control HUB—

First of all, what is the THT Multi-Control HUB?

The THT Multi-Control HUB is a hardware platform designed to serve as a centralized hub for integrating a wide range of IoT devices such as electric door locks and various sensors.
It was developed entirely in-house and commercialized in 2020.

Designing with Freedom
Flexibility Without Being Tied to Any One Manufacturer

Please tell us about the development process.

It all began when a client came us with a concern. They had installed a contactless card-based access control system “for the time being,” but soon realized it was difficult to manage and, more critically, lacked compatibility with other network systems.

Although many building access security systems exist on the market, they are often sold as complete packages, consisting of a control panel, controller, and card reader, by individual manufacturers. This makes them heavily reliant on proprietary communication protocols and standards, limiting flexibility and making it difficult to integrate with new devices or external systems.

To add the kind of scalability and versatility that clients hadn’t originally anticipated at the time of installation, they often faced the costly and inconvenient task of replacing entire systems or developing custom-made hardware from scratch.

To solve this, we developed our own general-purpose control platform and controller, capable of integrating with a wide range of devices from different manufacturers and supporting various specifications.

And that’s how the “THT Multi-Control HUB” was born: a customizable and flexible solution designed to meet the diverse and ever-changing needs of our clients.

So, you’ve created a device that truly functions as a hub. That’s really helpful.

What kind of IoT devices can the hub connect to?

The THT Multi-Control HUB can connect to a wide range of hardware devices, such as:

- Face recognition terminal
- Biometric authentication devices (fingerprint/ retina scan)
- Body temperature monitoring systems
- Electric locks and control boards
- Access control sensors
- Contactless card readers
- Keycard verification terminals
- Surveillance cameras
- Parking occupancy sensors
- Digital signage
- Timecard systems
- Fire alarms
- Fitness machine usage sensors

...and more.

In short, this hub is designed to interface with virtually any type of IoT device.
By integrating these devices into a single platform, the system allows for centralized data visualization as well as remote, unified management of schedules and devices. Since we also handle operations and maintenance, we can quickly respond to client requests such as adding or removing devices, changing settings, or assigning different personnel, all through a one-stop service.

**That’s a fantastic product...
It’s definitely a huge advantage to have the freedom to choose devices without being tied to a single manufacturer.**

What other advantages does it offer?

One key strength of the “THT Multi-Control HUB” is its scalability, even for devices that haven’t yet been released.

Normally, when devices from different manufacturers or with different communication protocols are connected, they fall outside the scope of the manufacturer’s warranty. However, by using the THT Multi-Control HUB to build the network, we can provide support that addresses these warranty gaps.

I see. So THT is also a reassuring presence for manufacturers.

What feedback have you received from stakeholders and clients?

The biggest praise we receive is for the freedom our product provides. Since the IoT environment is no longer constrained by the specifications of individual manufacturers, clients find it easier to achieve their ideal system setups. Contractors also find it simpler to understand the system architecture and configuration, which ultimately reduces design, development, and installation costs. Additionally, our product’s high degree of customization tailored to each client’s needs has been highly appreciated. We are confident that this will become a standard device in future IoT environments.

Thank you very much.

**To help our clients realize their vision, we start by addressing issues related to device specifications themselves.
This is something that typical contractors are not equipped to handle.**