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Guestroom Occupancy Processor

iDTCB01

PRODUCT HIGHLIGHTS

The iDTCB01 is a compact, intelligent processor designed for luxury hotels and serviced apartments.

Using multi-source signal fusion technology, it integrates signal input, logic analysis, and control output to accurately detect room occupancy status.

This enables automated management of lighting, HVAC, and other devices, delivering a reliable, energy-efficient, and comfortable guestroom experience.

Key Features

1. Multi-Source Fusion Sensing

Combines data from door/window magnetic sensors and presence detectors through built-in algorithms to ensure precise occupancy detection while avoiding false triggers.

Vacancy delay is adjustable via the Casambi App (1–30 min, default 1 min) for flexible operation.

2. Smart Control Outputs

Provides two dry contact outputs (OUT1, OUT2) with mutually exclusive logic:

- Occupied: OUT1–COM closed, OUT2–COM open
- Vacant: logic reversed

Supports predefined scenes such as Welcome Lighting or Energy Saving Mode.

An OUT3 port allows integration with HVAC or third-party systems for coordinated control.

3. Simple Configuration & Monitoring

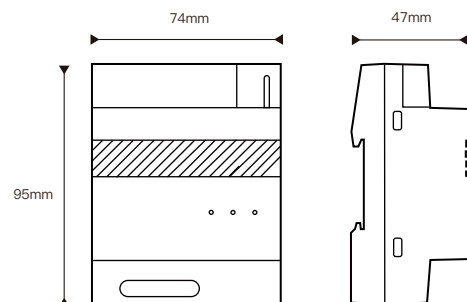
Supports BLE communication for quick setup and network access via the Casambi App.

Offers four scene bindings (e.g., “Presence Scene,” “Absence Scene”) and LED indicators (PWR, NET, Room) for real-time system and occupancy status monitoring.

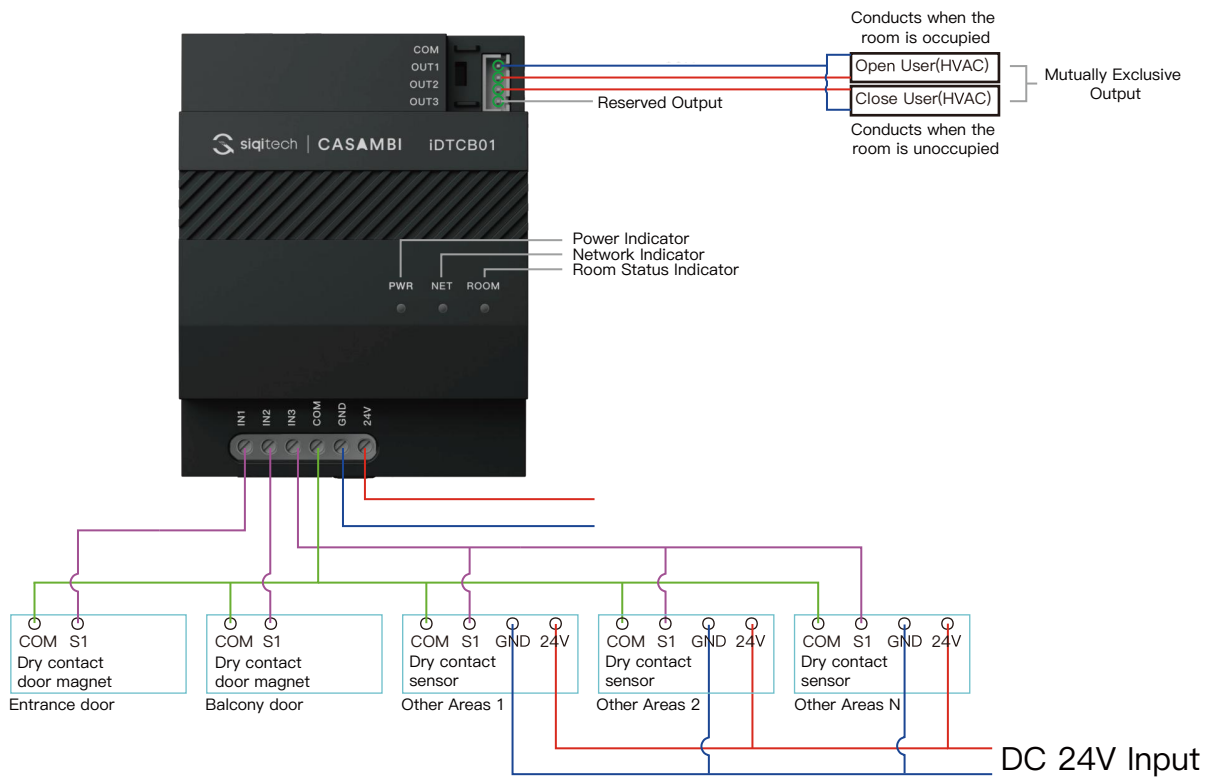
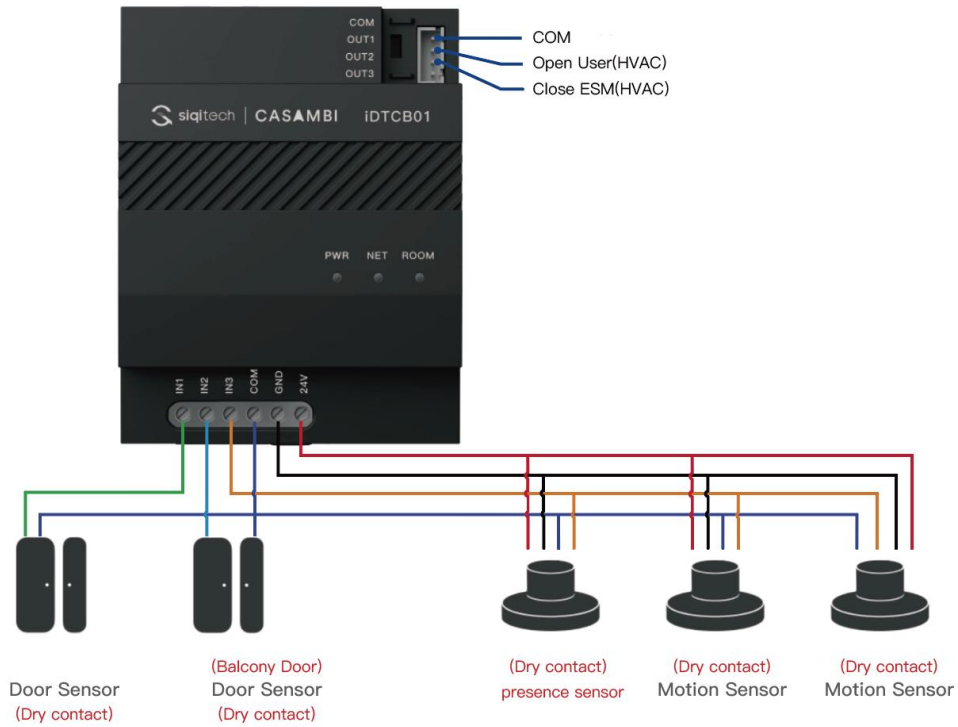


TECHNICAL PARAMETER

Product size	95x74x47mm
Package size	80x80x100mm
Weight	0.1kg
Gross weight	0.12kg
Installation mode	Standard rail installation
Input	3-channel dry contact signal
Output	3-channel dry contact signal
Input power	DC 24V
Material	ABS
Operating Temperature	-10°~+60°
Operating Humidity	≤95% RH, Non-condensing



Wiring Instruction





Output

OUT1-COM: Conducts when the room is occupied, off when unoccupied, mutually exclusive with OUT2.
 OUT2-COM: Conducts when the room is unoccupied, off when occupied, mutually exclusive with OUT1.
 OUT3: Reserved, no function.

Indicator Status

PWR: Always on when powered, off when unpowered.
 NET: Off when unpaired, flashes during pairing, always on when paired.
 Room: Off when unoccupied, always on when occupied.

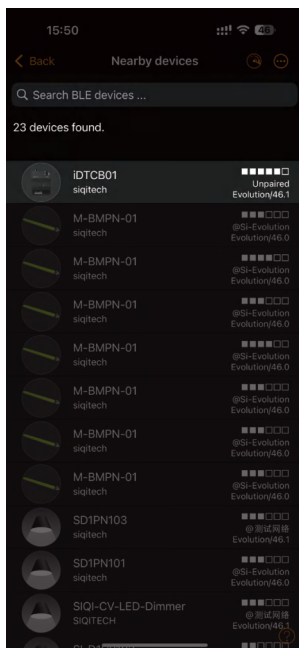
Input

IN1-COM: Receives open/close signal for entrance door detection.
 IN2-COM: Receives open/close signal for balcony door detection.
 IN3-COM: Receives open/close signal for human presence detection.
 24V-GND: Power input for the device

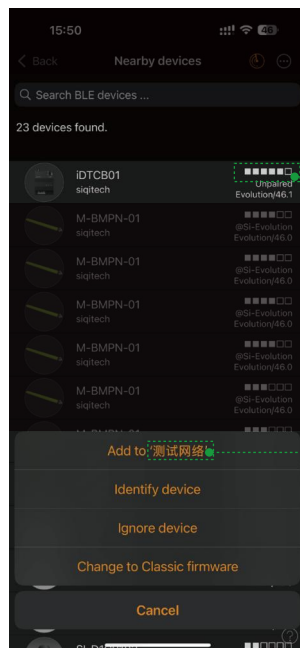
Note: The guest room human presence detection host will comprehensively determine whether the room is occupied or not based on the status of IN1/IN2/IN3 ports, and simultaneously trigger the content bound to the buttons on the APP end.

Add Device

After powering on the device



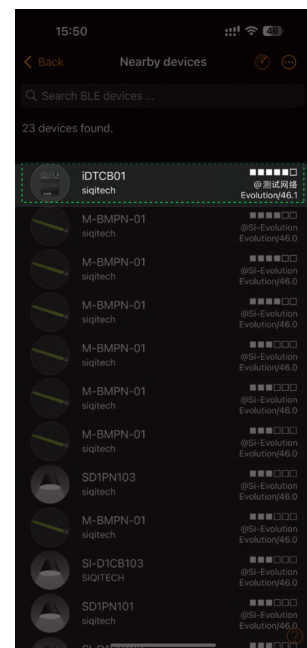
Open the Casambi APP and approach the device.



Find the signal-strongest "Guest Room Human Presence Detection Host" and add it to your network.

Signal strength

Network name

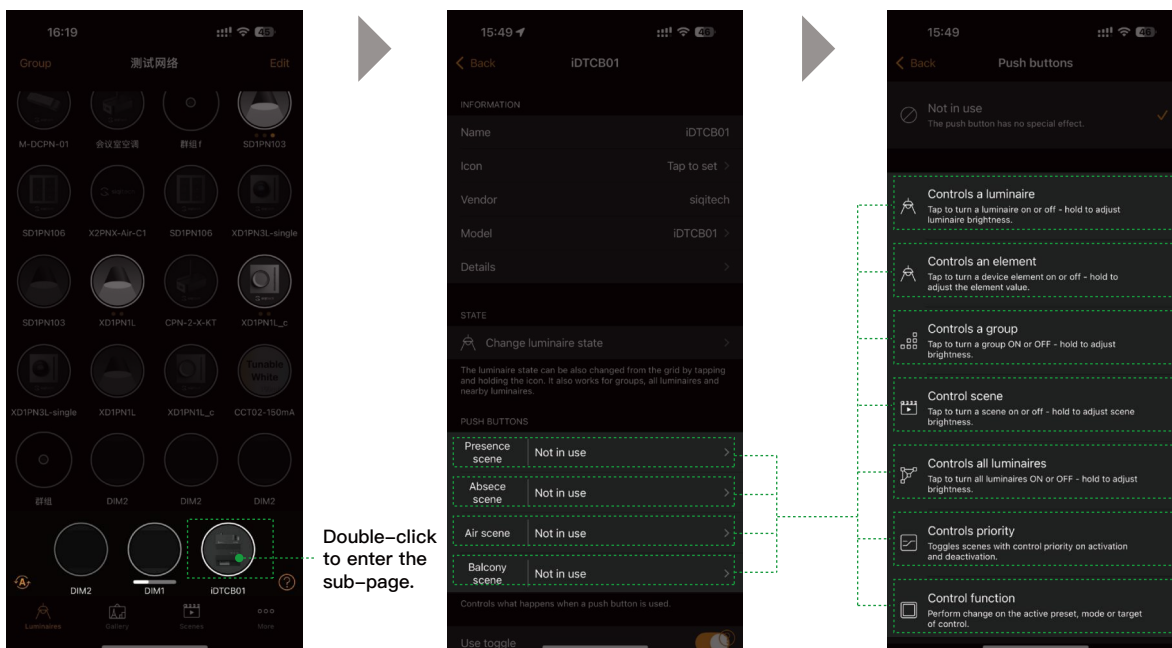


Complete pairing.

Button settings

After adding the device, double-click it in the lighting list to enter settings. In the button section, you can configure actions for presence/absence:

- (1) Presence Scene Button: Triggered when the room is unoccupied and the entrance door opens, e.g., Run welcome scene when entering the room for the first time.
- (2) Absence Scene Button: Triggered when the room is unoccupied and the entrance door closes, e.g., RUN leaving scene when leaving the room.
- (3) Air Scene Button: Triggered when the room is unoccupied and the entrance door opens, e.g., HVAC activation when entering the room for the first time. (optional).
- (4) Balcony Scene Button: Triggered when the room is unoccupied and the entrance door closes or the balcony door opens, e.g., HVAC off when leaving or opening balcony (optional).



Function Settings

In the settings page, tap “Detection period” to configure how long the room remain unoccupied before being considered unoccupied. Default is 1 minute, adjustable from 1 to 30 minutes.

