

MODEL WP106

10.1-inch PoE Smart Wall-Mounted Tablet

A wall-mounted Android control terminal for hotels, offices, apartments, clinics, campus public areas and facility systems.



PoE 48-53V



RS485 RJ12



NFC



Temp & Humidity



4G LTE



5.8G Radar

Fixed control point, simplified wiring, and project-ready customization.



10.1-inch PoE Smart Building Tablet

01

Scattered Control

Lighting, HVAC, access and room status live in separate devices.

02

Complex Wiring

Wall panels often need power, network and serial control paths.

03

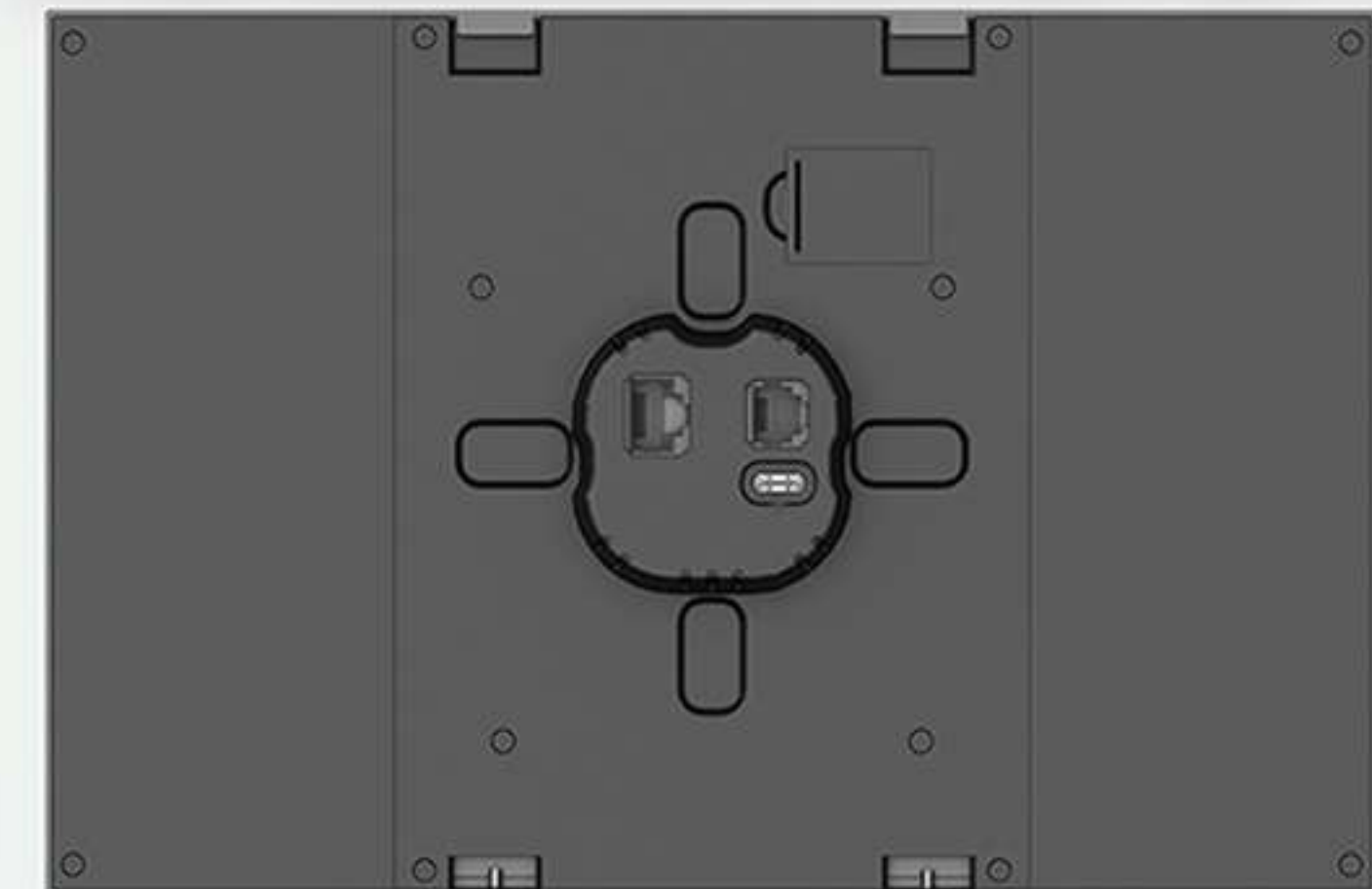
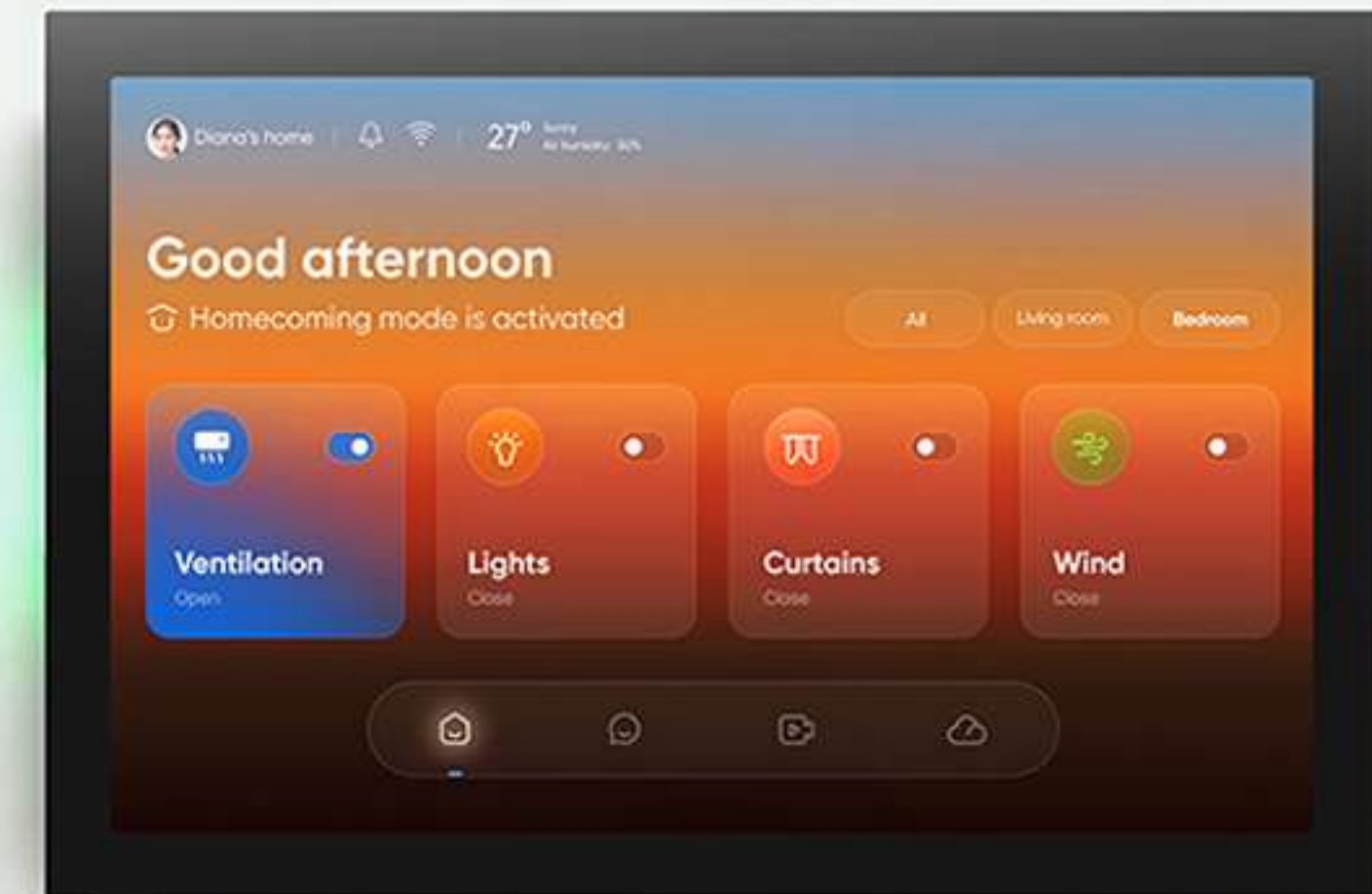
Phone Dependence

Shared spaces still need a fixed local control point.

04

Maintenance Risk

Loose mounting, hidden adapters and battery aging create service calls.



One Wall Panel. Power, Network, Control.

WP106 combines Android 16, PoE Ethernet, RS485, NFC, RGB LED status, built-in room sensing and 5.8G proximity wake in a clean wall-mounted industrial design. Combine power, industrial control, peripherals and smart identity features according to the system you need to connect.

PoE / RJ45

power + network

RS485 / RJ12

industrial control

USB-C

peripherals / service

NFC

identity / tap

RGB LED

status feedback

4G LTE

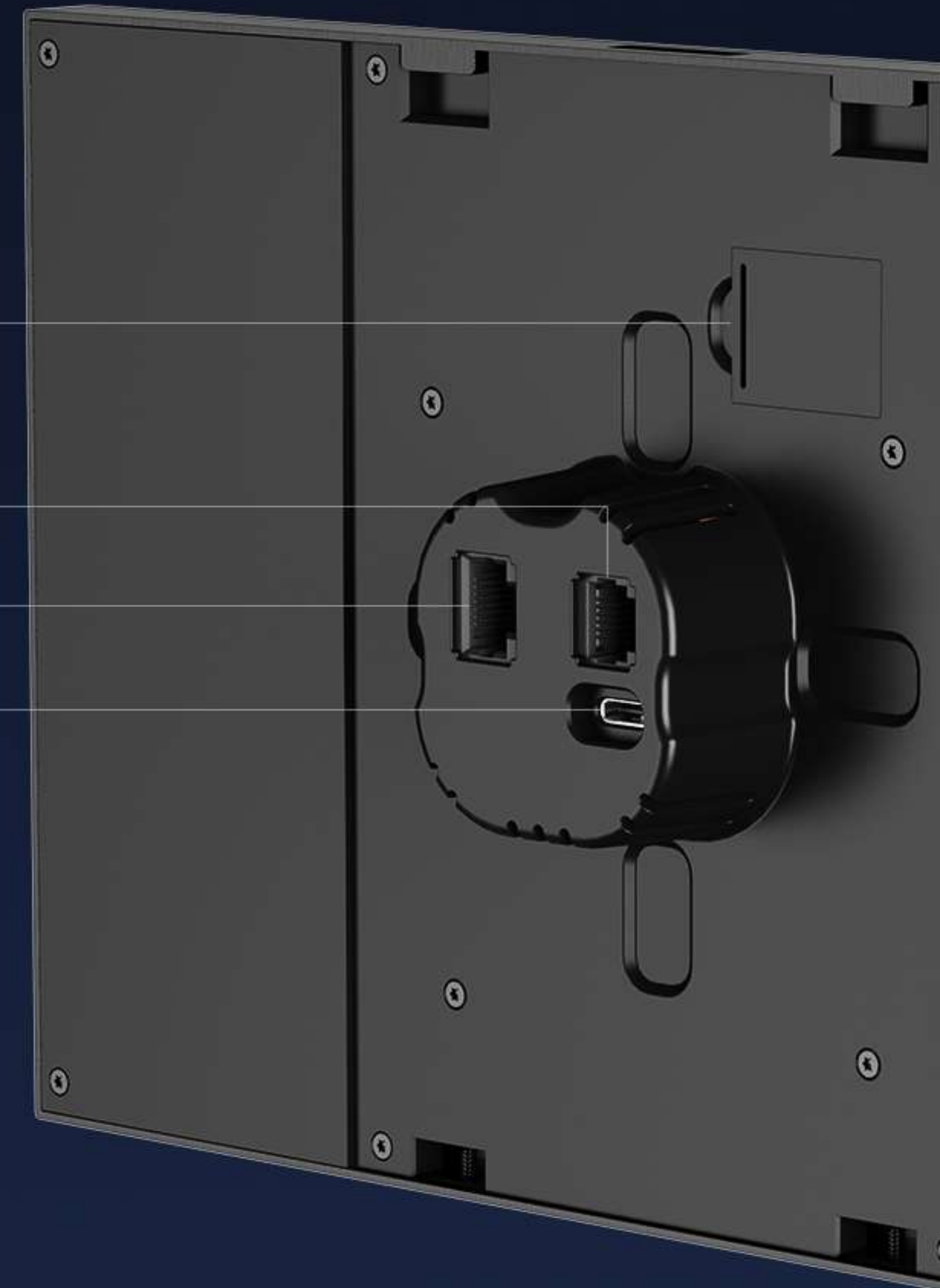
cellular network

4G SIM Card

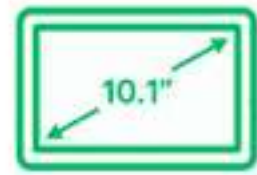
RJ12 (RS485/+12V)

RJ45 POE 802.3af

TYPE-C

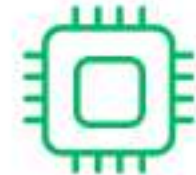


WP106 At A Glance



Display

10.1-inch IPS, 800 x 1280, 300 cd/m2



Platform

MT8786, 4GB RAM, 64GB ROM, Android 16



Touch

In-cell full lamination, 10-point capacitive



Power

PoE 12.5W 48-53V, USB-C 5V 2.5A



Control

RJ12 RS485 + 12V 1.5A



Mechanical

242.8 x 161.6 x 12.4 mm, wall mount



Built For Different Commercial Spaces



Hotels

Room control at the door



Offices

Visible meeting status



Apartments

Fixed smart-home entry



Clinics

Low-touch status point



Factories

BMS and RS485 integration



Campus

Secure public installation

Room Control At The Door Solutions

Solve scattered room controls with a fixed WP106 entry point for NFC tap, lighting/HVAC scenes, PoE wiring and visible LED status.

HOTEL

-  **Problem:** Guests face separated controls for lights, HVAC, access and room scenes.
-  **WP106 solution:** WP106 creates a fixed in-room control entry with NFC tap, PoE wiring and clear LED status.

 Clean room control with less service work.



NFC
Card tap / access



PoE
No local adapter



LED
Room status

Make Room Status Visible

Use WP106 as a wall-mounted schedule and control terminal. RGB LED status and PoE simplify room deployment for facility teams.

OFFICE

-  **Problem:** Meeting room status is hard to see, and traditional room panels add wiring complexity.
-  **WP106 solution:** WP106 works as a wall room-control and schedule terminal with PoE, RGB LED and fixed mounting.

 Room availability and control made visible.



RGB LED

At-a-glance status



PoE

Single cable



Speaker

Voice prompts

Fixed Control Beyond The Phone

A shared smart space still needs a local interface. WP106 adds touch control, temperature/humidity sensing and approach wake.

HOME

-  **Problem:** Phone-only control is not enough for shared homes, apartments or visitors.
-  **WP106 solution:** WP106 gives every room a dedicated wall interface with temperature, humidity and approach wake.

 A fixed control point beyond phone-only control.



 **Sensor**
Temp + humidity

 **5.8G Radar**
Approach wake

 **Touch**
10-point

Low-Touch Status Point

Support reception, staff check-in or treatment room status with NFC, speaker prompts, RGB LED and 5.8G proximity wake.

CARE



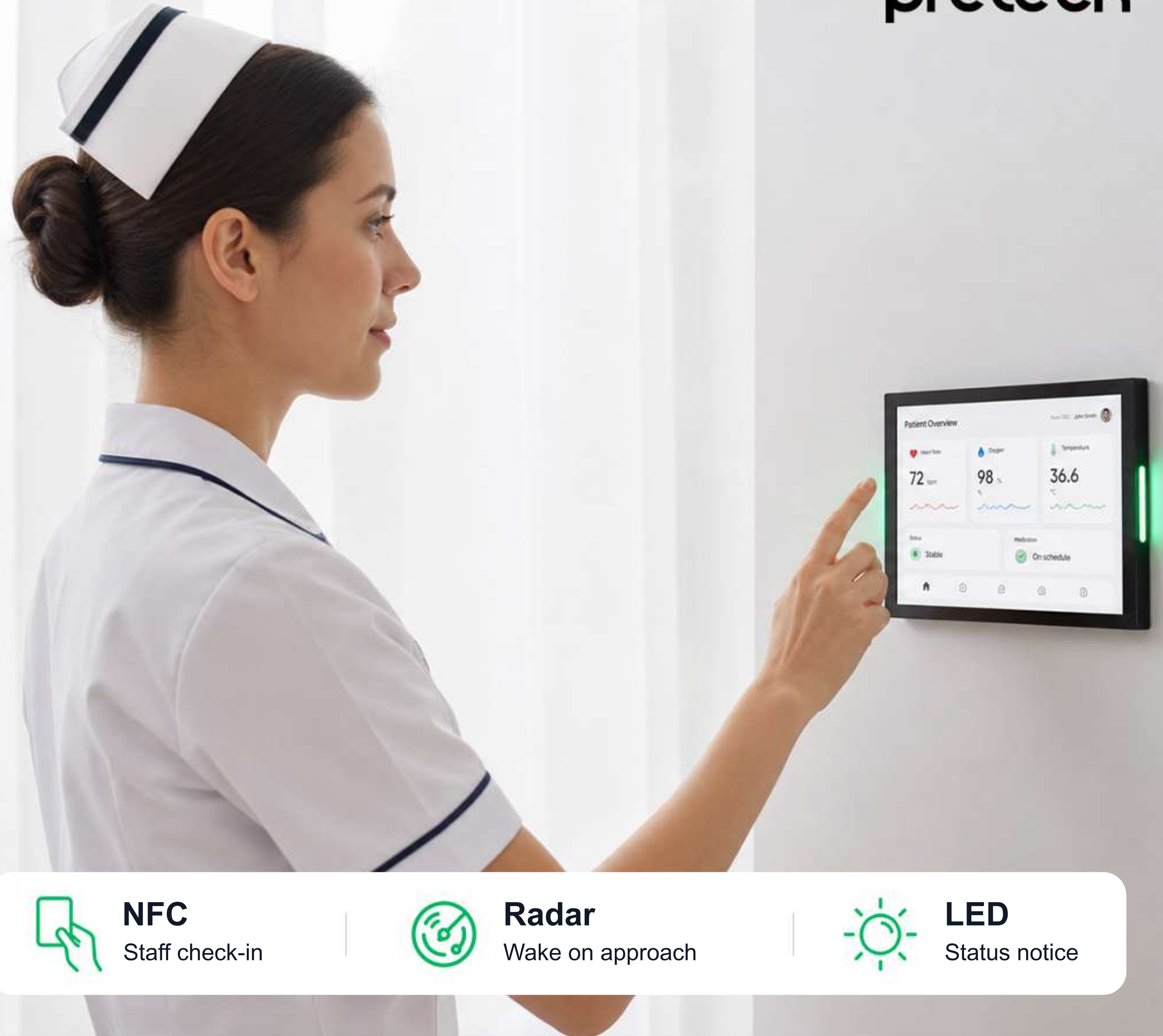
Problem: Clinics need visible room status, staff interaction and cleaner shared touch workflows.



WP106 solution: WP106 supports NFC tap, status LED, speaker prompts and radar wake for reception or treatment rooms.



Controlled access, reminders and clear local status.

**NFC**

Staff check-in

**Radar**

Wake on approach

**LED**

Status notice

HMI For BMS And Control

RJ12 RS485, PoE and USB-C OTG help WP106 connect building systems, room controllers and facility automation equipment.

CARE

-  **Problem:** Facility control points often need serial connection, stable power and easy maintenance.
-  **WP106 solution:** WP106 provides RJ12 RS485, PoE Ethernet, USB-C OTG and wall mounting for BMS or PLC workflows.

 Connect HVAC, lighting and facility systems.



 RS485 RJ12 serial path	 PoE 48-53V	 USB-C OTG / service
--	--	---

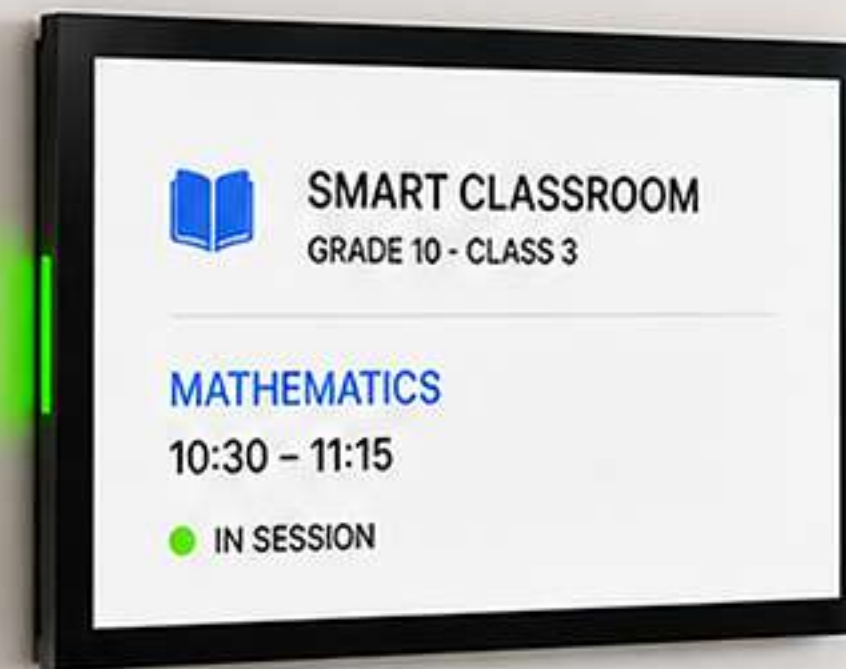
Secure Public Installation

Screw-secured and anti-theft mounting help public-area terminals stay fixed in classrooms, corridors, labs and shared spaces.

CAMPUS

-  **Problem:** Public-area control screens can loosen, disappear or become hard to maintain.
-  **WP106 solution:** WP106 uses screw-secured installation, anti-theft mounting and a visible status LED for campus spaces.

 Stable control for classrooms and shared areas.



Secure
Screw fixed



Anti-theft
Concealed mount



LED
Quick status

Tap, Control And Prompt

Use WP106 as a compact front-end interaction point for kiosks, lockers, service counters and other self-service workflows.

KIOSK

-  **Problem:** Self-service points need local interaction, payment or staff card tap, and clear prompts.
-  **WP106 solution:** WP106 combines NFC, dual box speakers, touch display and 24/7 PoE power for front-end terminals

 A compact wall interface for self-service points.



NFC
Tap interaction



Speaker
Prompts / alerts



24/7
Commercial use

HOW TO CONNECT

Interface & Mode Guide

WP106 gives project teams a clear interface strategy: one cable for power and network, RS485 for control systems, USB-C for service, and front NFC for tap workflows.



10.1-inch POE Tablets

POE
SINGLE CABLE POWER

RS485
INDUSTRIAL I/O

NFC
IDENTITY/TAP

4G LTE
cellular network

Flush
MOUNT DESIGN

TEMP & HUMIDITY
SENSORS



01 RJ45 PoE + RJ12 RS485

Smart Building

Hotels / Apartments / Smart classrooms



02 RJ45 PoE only

POE Single-Cable Mode

Offices / Meeting rooms / Commercial



03 RJ12 DC input + RJ45 Ethernet

Low-Voltage Retrofit

Facilities / Cabinets / Retrofit sites



04 USB-C power + RJ45 network

Backup Power Flexibility

Healthcare / Service desks / Critical control points



05 USB-C only

USB-C Debug / Demo

System integrators / Developers / Sample validation



Room Sensing & Tap Workflows



WP106 is not just a screen. It becomes a fixed interaction point for people, rooms and devices, with sensing and feedback built into the wall panel.

NFC tap

HOTELS & SERVICED APARTMENTS

POE Tablets NFC Room Access

NFC Guest Card
13.56 MHz

NFC action
unlock/room scene



RGB LED Status

10.1-INCH · POE SMART BUILDING · IOT SOLUTION

Programmable RGB LED Status

- RGB LED
- Status Feedback
- Custom Logic



RGB LED Status

Approach-to-wake

5.8G mmWAVE RADAR



Custom range
0.5m-3m
Default: 1 m



Temp & humidity

Built-in Temp & Humidity Sensor



One terminal for
control +
sensing.

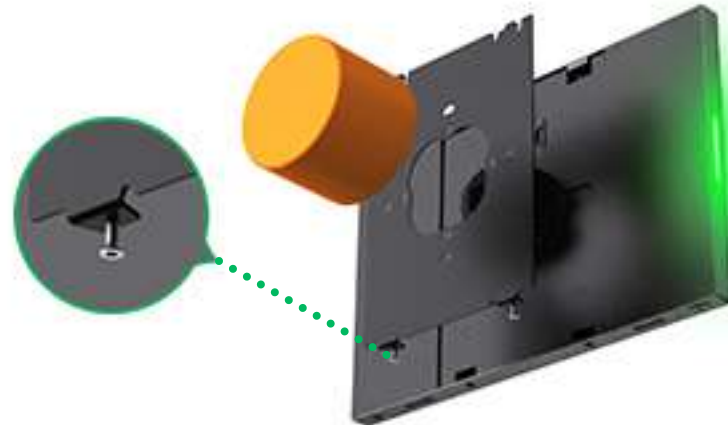


Anti-Theft

POE SMART BUILDING · IOT SOLUTION

Screw-Secured Installation

- Screw Secured
- Stable Mount
- Service Fit



Box speakers

Approach-to-wake

5.8G mm Wave Radar

- Speakers
- Voice Prompts
- Alerts



HOW TO CONNECT

Fast Installation. Secure Daily Operation.

The wall-mounted ID is designed for commercial projects where installation speed, stable mounting and long-term reliability matter more than consumer-tablet aesthetics.

Universal wall mount

Universal UK / EU / US Wall Mount

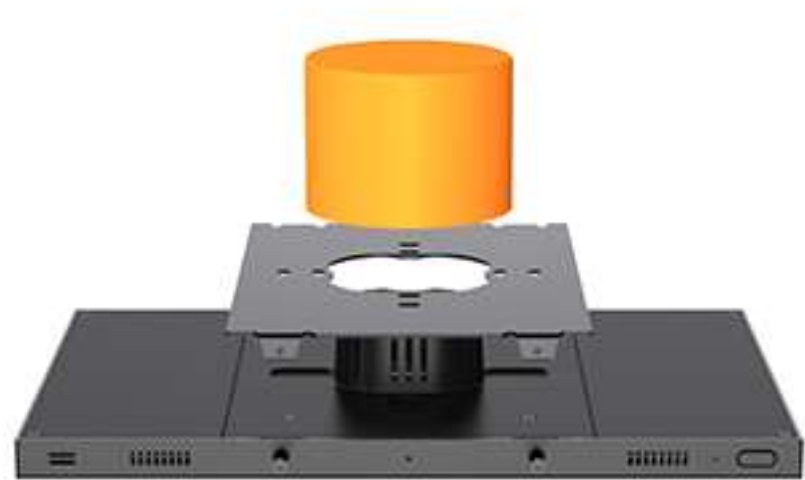
One design for global wall-fit dimensions.



Anti-theft fixing

Secure Anti-Theft Mounting

Concealed mounting helps prevent unauthorized removal.



No battery

NO BATTERY INSIDE

Power on. It boots.

No swelling risk. No battery aging.
Auto recovery after power outage.



Battery-free
For fixed wall terminals



Box speakers

BUILT FOR 24/7

Always-on commercial operation

For hotel rooms, meeting rooms, clinics, facilities and public areas.



CONTINUOUS USE
For daily commercial operation

PoE POWER
Stable power without local adapter



Technical Specifications

Core configuration for B2B project evaluation. Final options can be confirmed by project requirement, region, certification and software image.

Platform	
CPU	MT8786 octa-core
Memory	4GB RAM + 64GB ROM
OS	Android 16

Display & Touch	
Panel	10.1-inch IPS
Resolution	800 x 1280
Touch	In-cell full lamination, 10-point

Interfaces	
RJ45	PoE 802.3af, 48-53V
RJ12	RS485 + 12V / 1.5A
USB-C	5V / 2.5A

Smart Features	
NFC	front screen tap
Wireless	Wi-Fi 2.4G/5G, BT 5.0, 4G LTE
Sensors	Temperature, humidity, 5.8G radar

Mechanical	
Size	242.8 x 161.6 x 12.4 mm
Mounting	Wall-mounted, screw-secured
Use	Smart building and commercial spaces

From Requirement To Mass Production

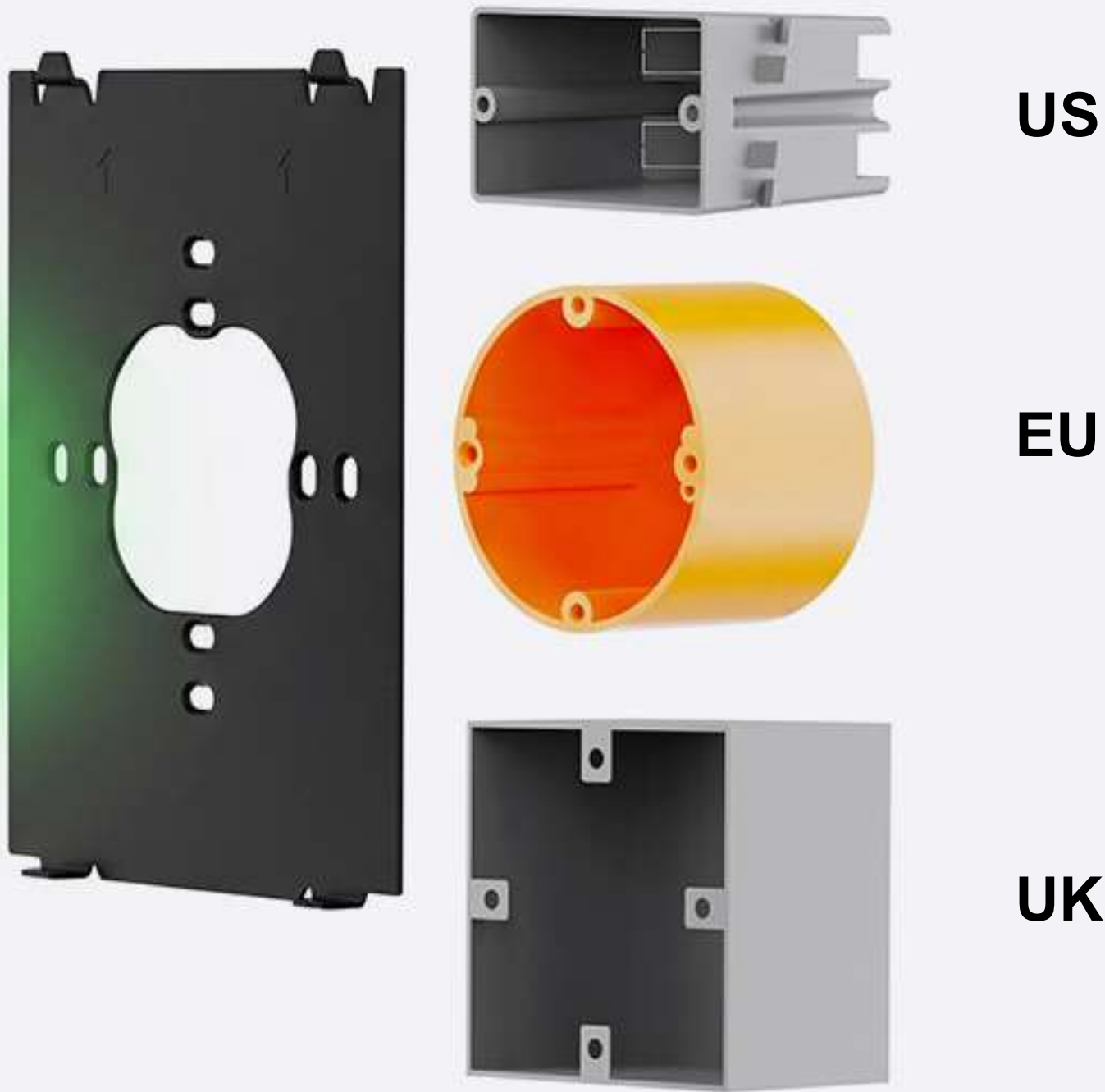
Pretech provides more than a device. We support B2B buyers with product definition, hardware options, firmware image, branding, wall-box adaptation, sample validation and mass production delivery.

2010
FOUNDED

100+
ODM PROJECTS

8
PRODUCTION LINES

250K
MONTHLY CAPACITY



01 Wall box or cutout drawing

....

02 Interface and power requirement

....

03 Branding, UI and software image

...

04 Sample validation and mass production

Let's build your next smart device. Contact Us



www.pretech-e.com



admin@pretech-e.com



+86 755 2305 1989



808, 8F, Qiancheng Commercial Center,
5 Haicheng Road, Bao'an District,
Shenzhen, China

PRETECH International Co., Limited · ODM / OEM Smart Display & HMI Solutions