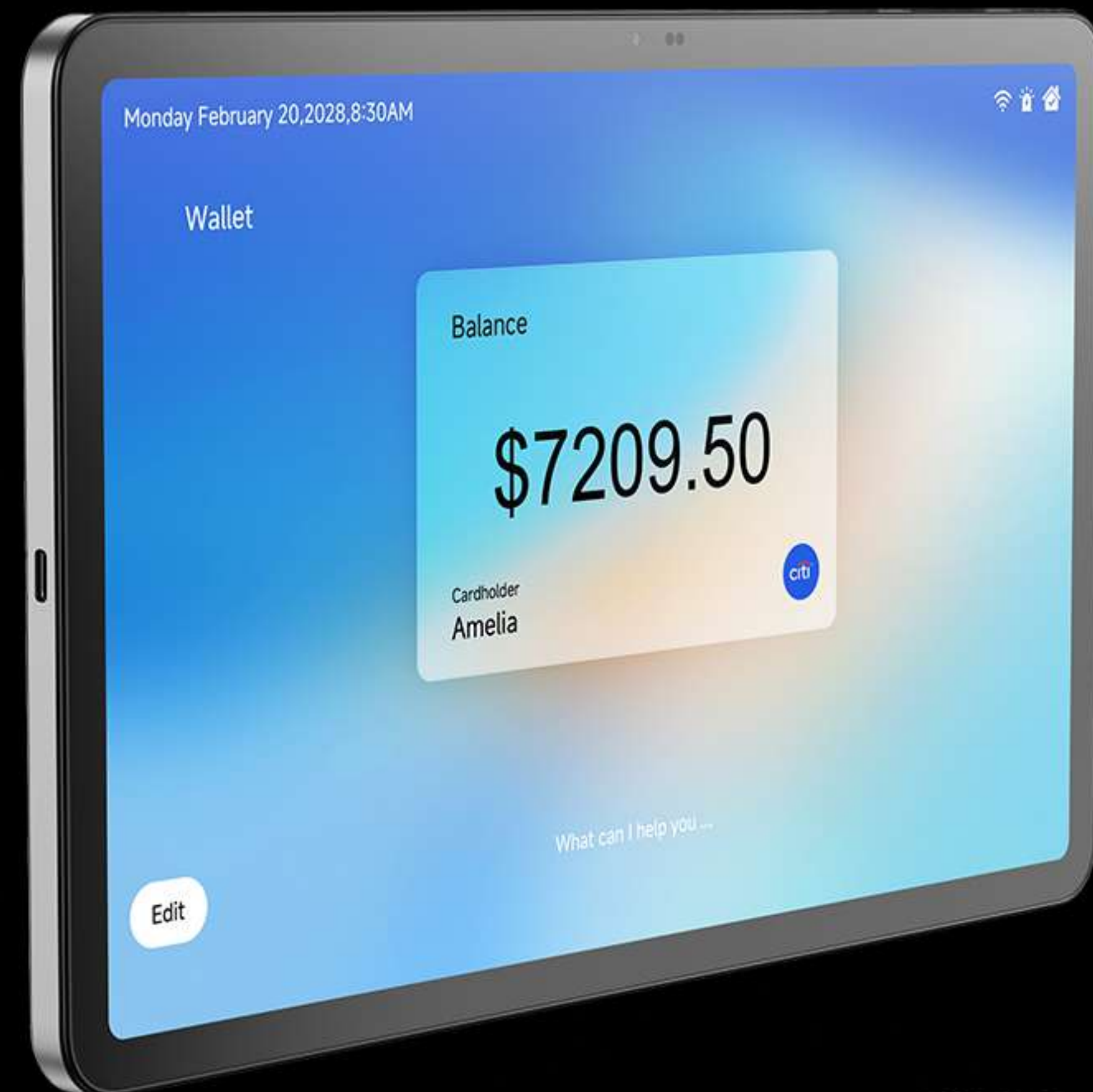




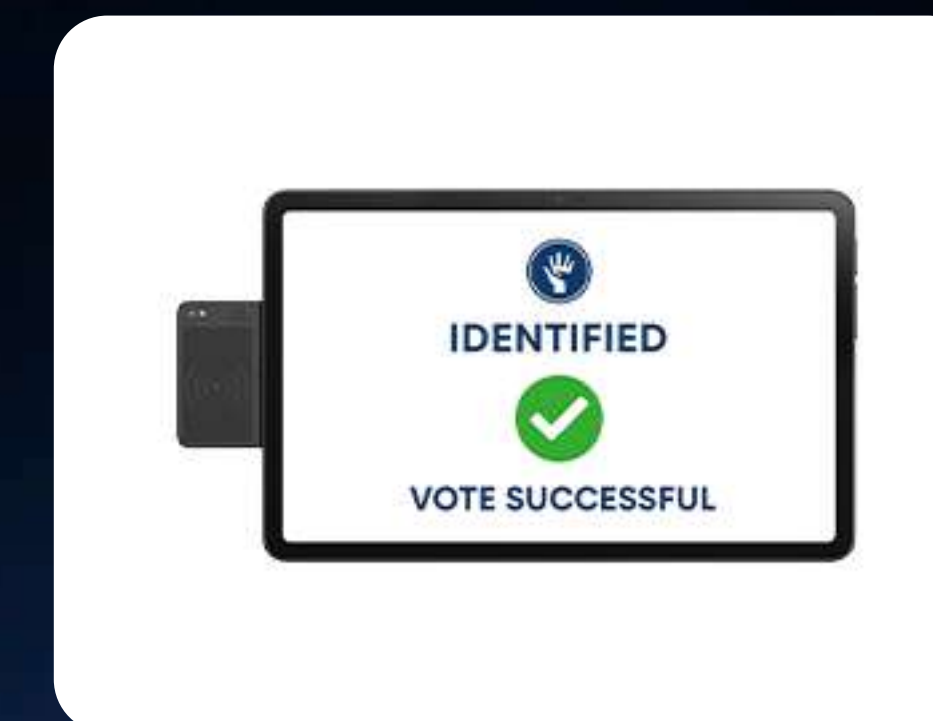
12-inch NFC Android Tablets

Full-Service ODM Capabilities

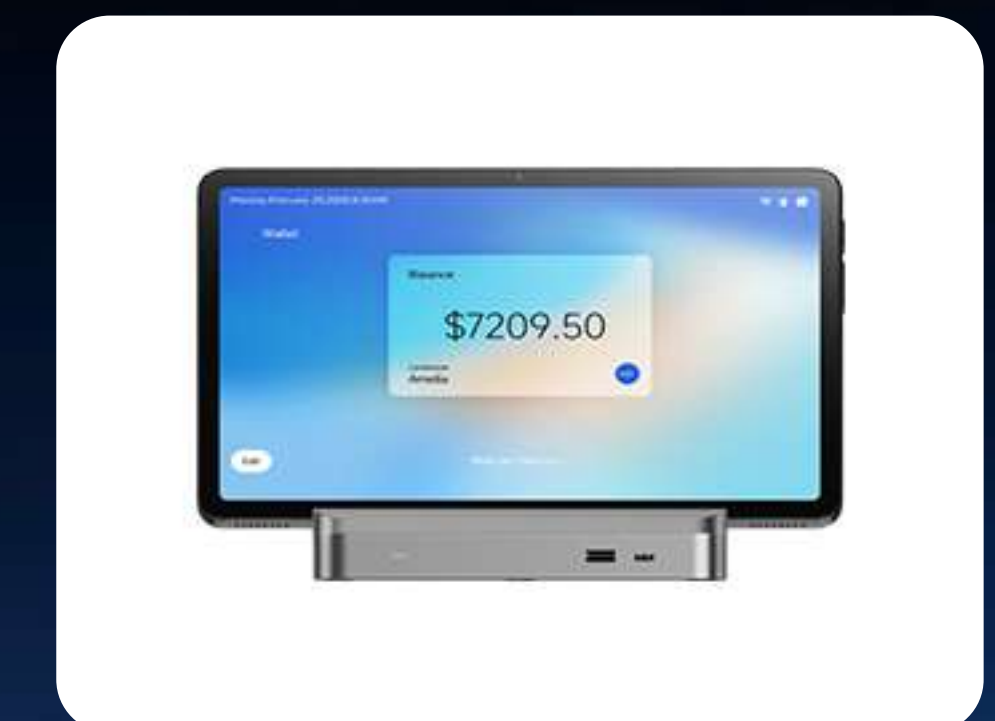
- Modular Design
- Front-screen NFC Support
- Full-Chain ODM Customization
- ODM for Retail, Hospitality, Healthcare & Enterprise Solutions



A: Magnetic Pogo Pin
9-pin Interfaces Extension



B: Magnetic Pogo Pin
8-pin Interfaces Extension



C: Magnetic Pogo Pin
8-pin Interfaces Extension

ABOUT PRETECH

Your Trusted ODM Partner for ODM Tablets Solutions

With over a decade of expertise in industrial tablet design and manufacturing, Pretech delivers innovative, reliable, and customizable solutions for global B2B clients.

12000_{m2}
Factory Area

500+
Global Clients

8_{production lines}
Production Line

250K_{pcs/month}
Control panel production capacity

✓ **Full-Service ODM Capabilities**

Hardware customization • Software adaptation • Certification support •
Rapid prototyping • Mass production



PRODUCT OVERVIEW

12-inch NFC Tablets

ODM/OEM for Versatility



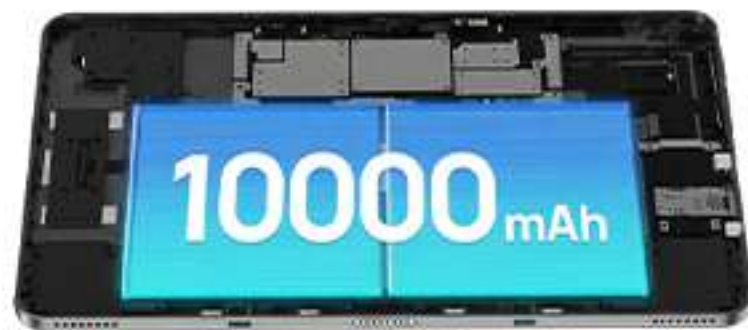
12" 2K High-Brightness Display
2000×1200 resolution • 350nit (450nit optional) •
In-Cell 10-point touch



Front-screen NFC Support
Mobile payments, e-tickets, staff attendance,
member recognition



Modular Expansion System
3× POGO PIN interfaces • Magnetic + screw fixation •
16 magnet positions



All-Day Power
10000mAh dual-cell • 33W PPS fast charging •
8+ hours continuous use

Crystal-Clear Visibility in Any Environment



High Brightness

350nit standard brightness with optional 450nit high-bright version for outdoor and high-ambient light environments.

- ✓ Perfect for retail windows
- ✓ Outdoor kiosk applications
- ✓ Vehicle-mounted use



In-Cell Technology

Integrated touch panel reduces thickness and improves touch sensitivity with 10-point multi-touch capability.

- ✓ Superior touch response
- ✓ Reduced reflection
- ✓ Enhanced durability



Future-Ready

Reserved electromagnetic pen interface for future stylus support in signature capture and annotation applications.

- ✓ Superior touch response
- ✓ Reduced reflection
- ✓ Enhanced durability

Display Specifications



Screen Size	11.97" IPS In-Cell LCD
Resolution	2000x1200 (2K), 197 PPI
Contrast Ratio	350nit (Standard) / 450nit (Optional)
Touch	10-point capacitive, integrated in-cell

Front Screen NFC



Key Advantages



Invisible Integration

NFC antenna integrated under display - no cutout needed for seamless, durable design



Touch Stability

Completely eliminates NFC-induced touch jitter for smooth, reliable user experience



Future-Proof

Built-in MCU supports OTA firmware updates for evolving payment standards

Key Advantages



Payment

SoftPOS, mobile wallets, transit fare



Access Control

Hotel keys, office entry, event tickets



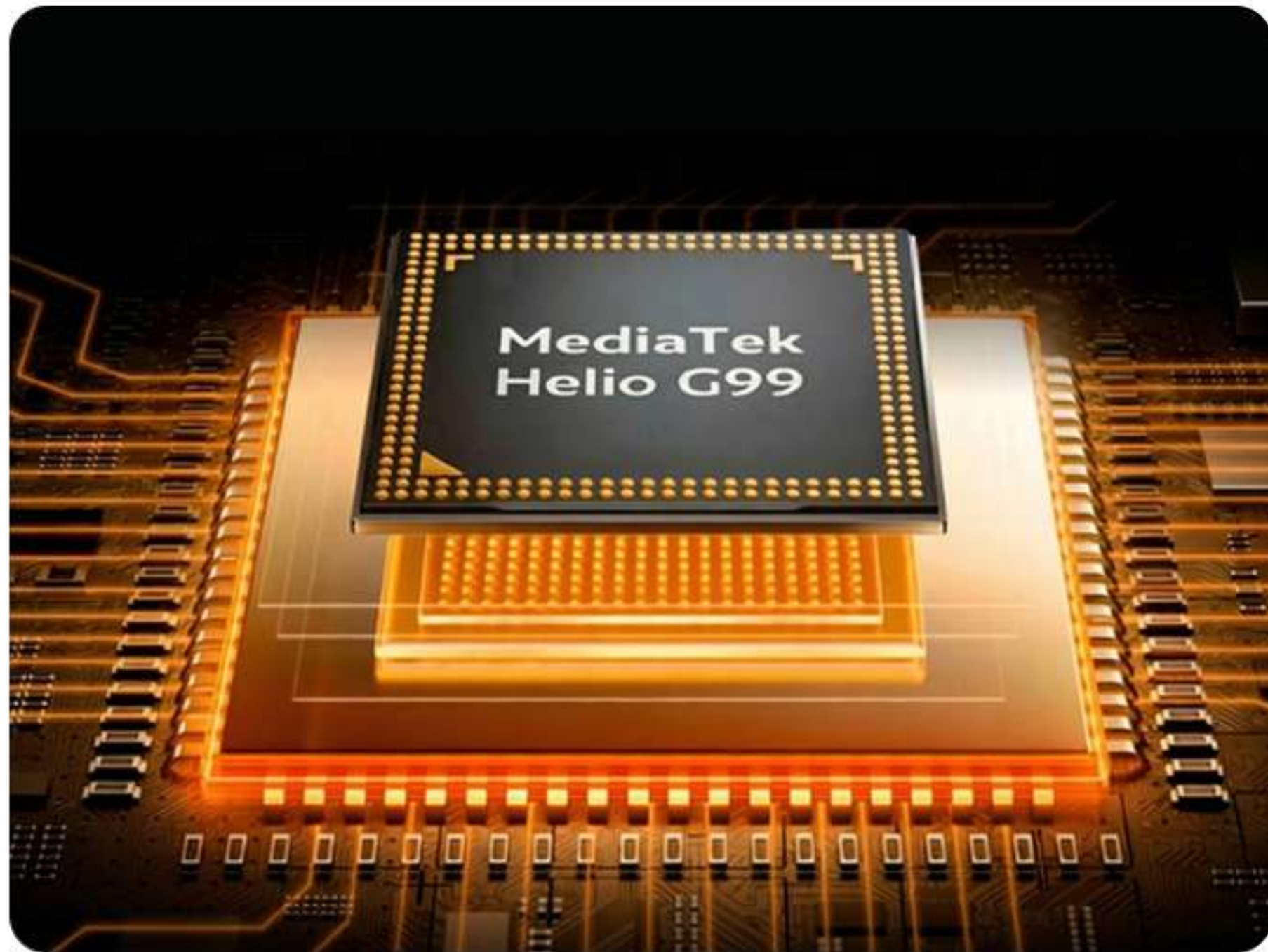
Identity

Member recognition, loyalty programs

Certification Support

Full support for CE, FCC, RoHS and KC certification processes with Pretech's experienced compliance team.

Powerful Platform for Demanding Applications



Chipset	MediaTek MT8781 (Helio G99)
CPU	2x ARM Cortex-A76 @ 2.2GHz + 2x ARM Cortex-A55 @ 2.0GHz
GPU	ARM Mali-G72 MC4
RAM Options	6GB/8GB/12GB LPDDR4X
Storage Options	128GB/256GB/512GB UFS
Operating System	Android 16 with GMS



Connectivity

- ✓ WiFi 5 (802.11ac) 2.4/5GHz
- ✓ Bluetooth 5.2
- ✓ 4G LTE (Global Bands)
- ✓ FM Radio



Positioning

- ✓ GPS
- ✓ BeiDou
- ✓ Galileo
- ✓ GLONASS



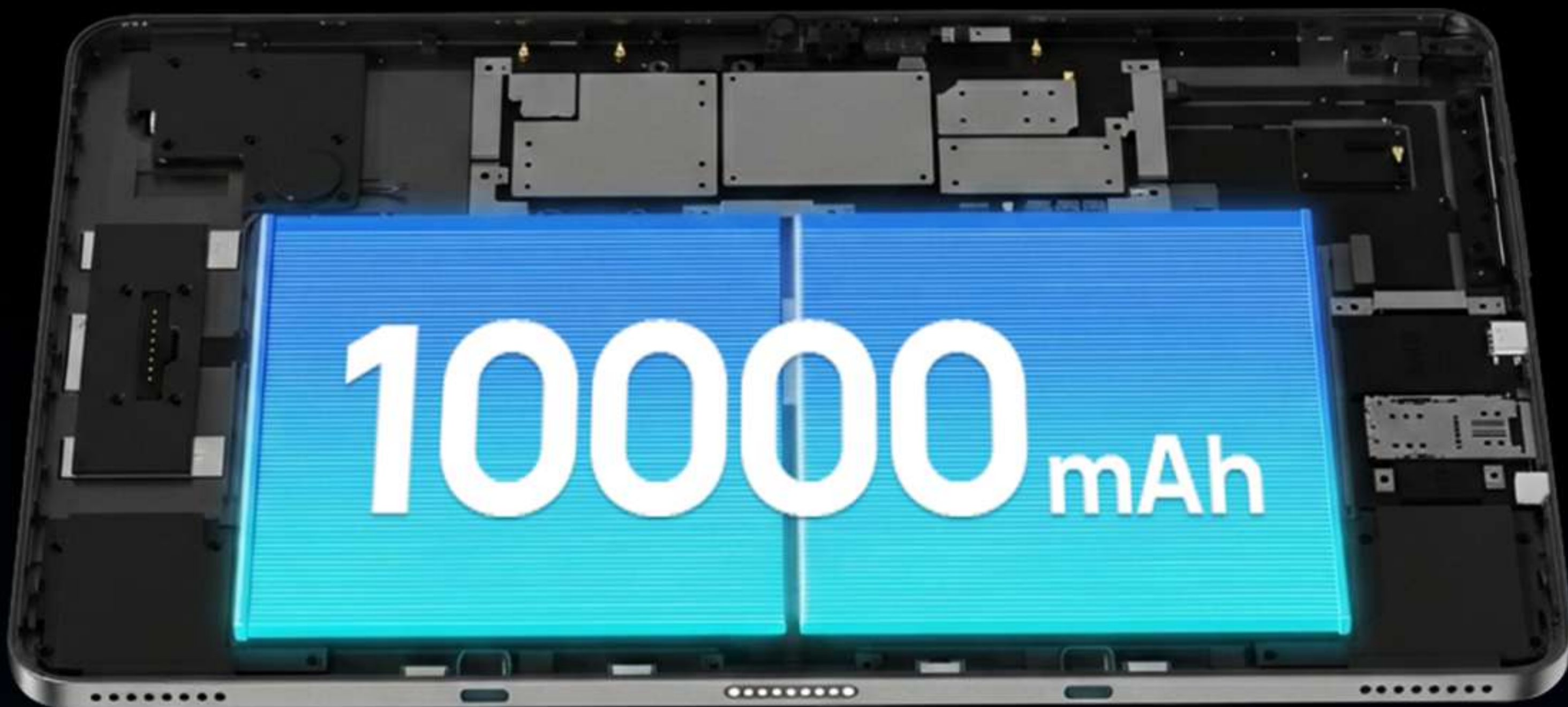
Sensors

- ✓ Accelerometer (G-Sensor)
- ✓ Gyroscope
- ✓ Compass
- ✓ Light & Proximity sensors

All-Day Battery Life with Fast Charging

33W PPS Fast Charging

Quick power replenishment keeps your operations running with minimal downtime.



8+ hrs
Continuous Use

72+ hrs
Standby Time

Dual-Cell Design

2× 5000mAh cells comply with international safety regulations while maximizing capacity



Universal Charging

33W PPS (Programmable Power Supply) supports wide range of charging protocols



Dock Charging Options

Optional 15W DC or 25W PD charging through docking station for fixed installations



Unmatched Flexibility with POGO PIN System

3 Independent POGO PIN Interfaces

9-pin × 2 (Power + Data + Dock Communication) + 8-pin × 1 (Peripheral Devices) enable unlimited expansion possibilities without custom PCB development.



Rotating Dock

0-180° rotation with auto-magnetic alignment and suspension for optimal viewing angles

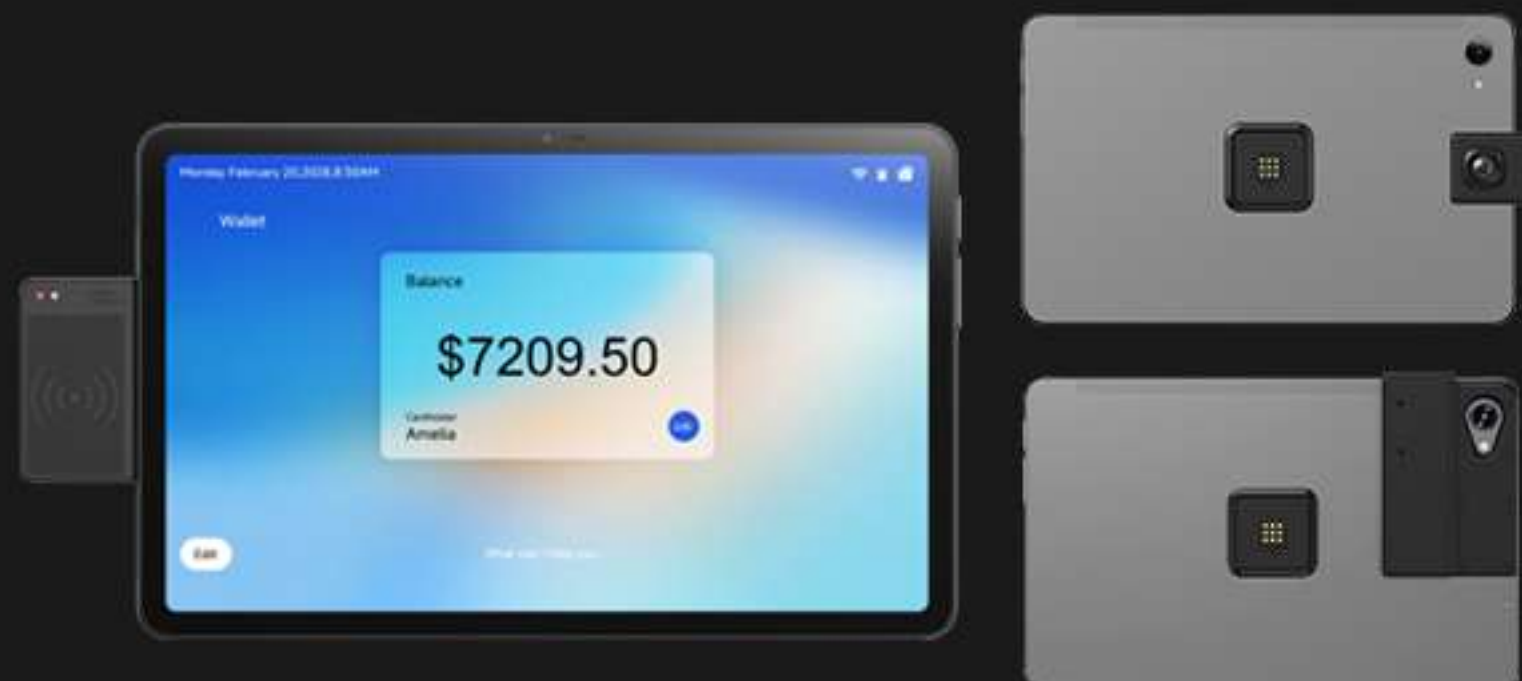
- ✓ 4 magnet positions
- ✓ Auto-alignment
- ✓ Smooth rotation



Fixed Dock

Permanent installation with maximum stability for high-traffic environments

- ✓ 10 magnet positions
- ✓ Screw reinforcement
- ✓ Maximum stability



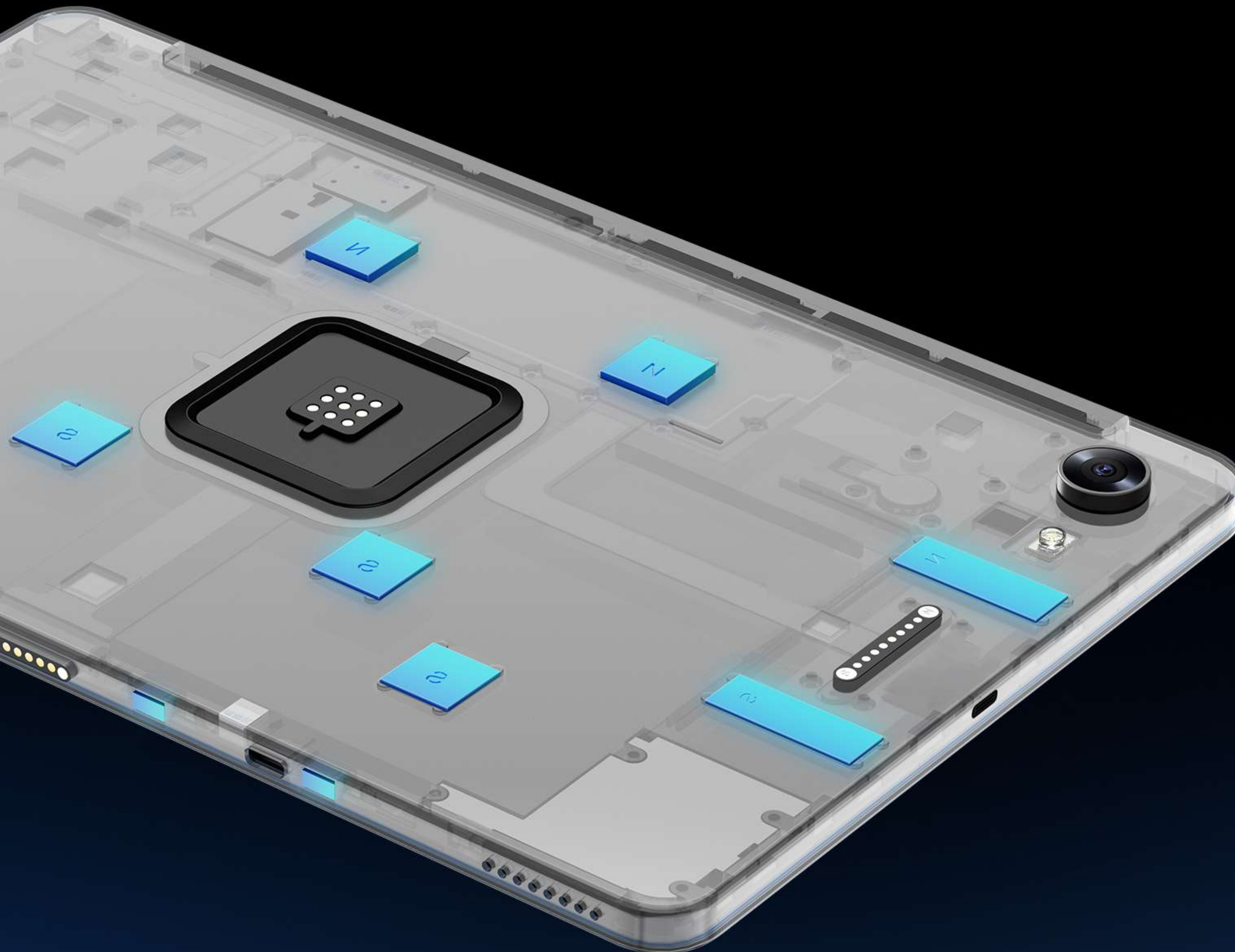
Expansion Modules

Scanner, security, wall-mount, and custom modules for specialized needs

- ✓ 4 magnet positions
- ✓ Hot-swappable
- ✓ Custom options

MODULAR DESIGN

Unmatched Flexibility with POGO PIN System



**16 Magnet Positions
+ 10× M2 Screw Points**

infinitely adjustable magnetic force
- Mix and match for hundreds of configuration combinations

**16
Magnet Positions**

**10x
M2 Screw Points**

Rich Connectivity for Fixed Installations

Compatible with tablets with or without rear POGO PIN for maximum versatility



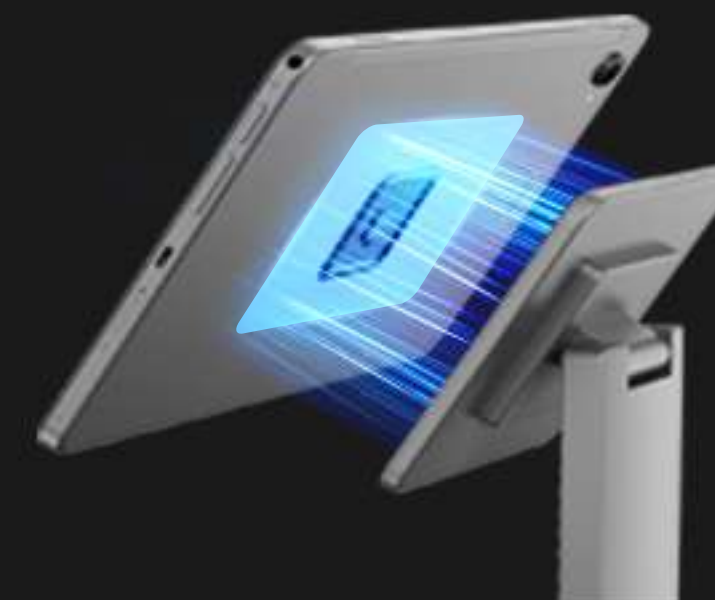
Magnetic Auto-Alignment

Semi-circular guide posts based on extensive user testing for effortless positioning



Kensington Lock Support

International standard 6.0×2.5mm security slot for theft prevention



POGO PIN Contact

4 auxiliary magnets ensure reliable connection solving contact issues



Optional USB-C PD

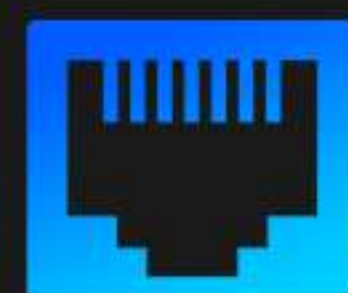
10000mAh dual-cell • 33W PPS fast charging • 8+ hours continuous use

Fixed Dock Specifications



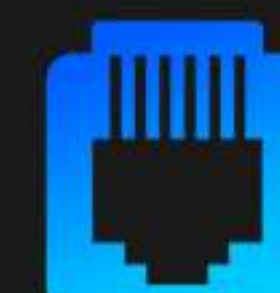
5× USB-A Ports

5V 0.5A output with data



RJ45 Ethernet

Wired network connectivity



RJ12 Cash Drawer

12V software-controlled



DC Input

19V 3.42A power supply

Customizable Modules for Every Use Case

Pretech's engineering team can develop custom modules tailored to your specific application requirements.



Rear High-Res Camera

Up to 64MP using secondary camera interface for facial recognition



Dual Camera Module

Binocular cameras for advanced biometric authentication



Front Scanner Module

Digital scanner for payment and inventory applications



Scanner Module

External laser scanner support



Temp & Humidity Sensor

IoT control and environmental monitoring



Wall-Mount Module

Standardized magnetic bracket with cable management



Kensington Lock Module

Enhanced security for unattended installations



Intearated Step-down Circuit

Anti-svstem-crash protection(DataIntegrity)



Fingerprint Reader

Biometric authentication module

Industrial-Grade Durability for 24/7 Operations

2.3mm

Metal Housing Thickness

+40%

Metal Strength Increase

+100%

Overall Strength vs Standard

0-45°C

Operating Temperature

Robust Construction

- **Multi-Layer Protection**

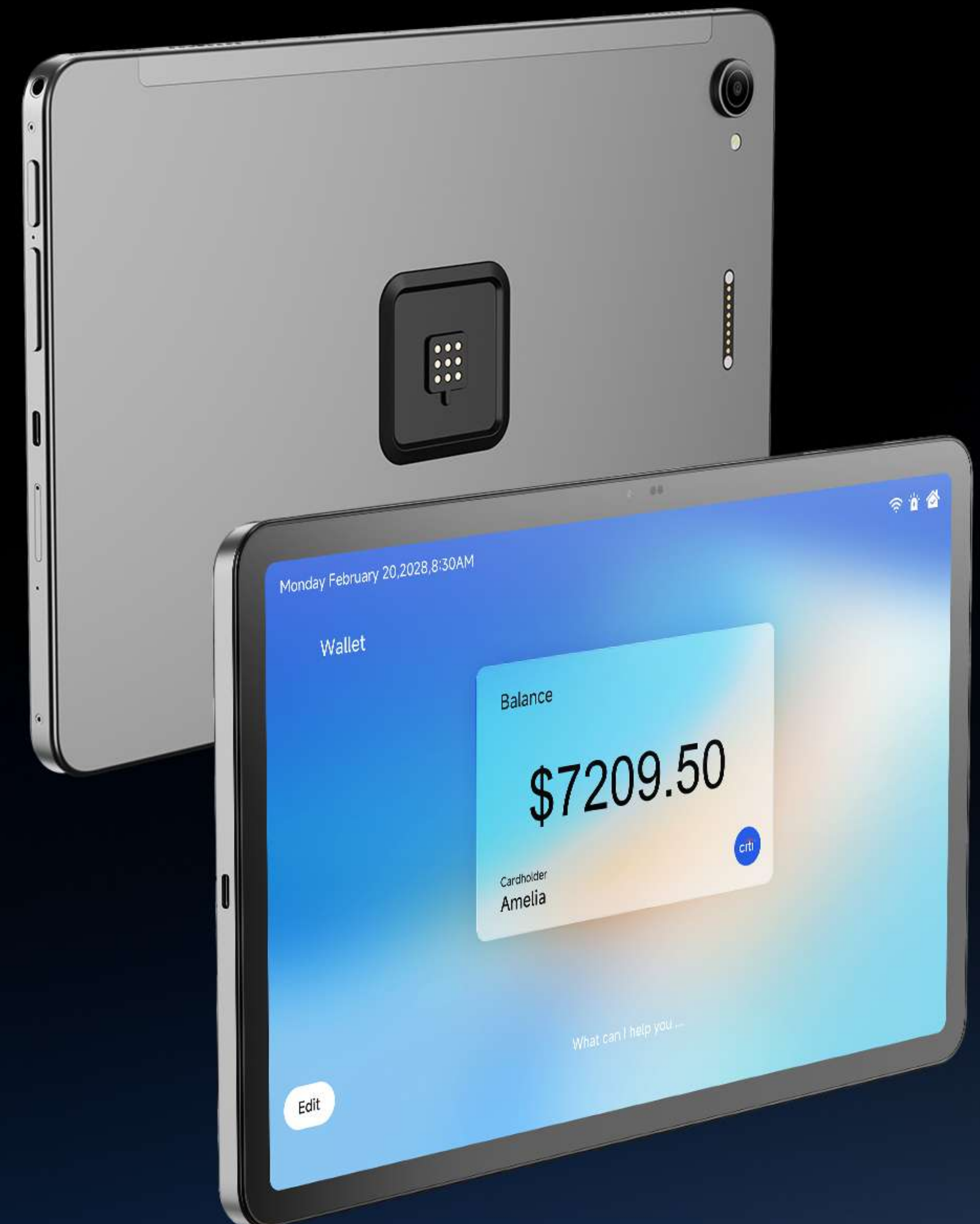
1.2mm aluminum alloy shell + 1.1mm full-coverage plastic frame + (pressure plate) protection for critical interfaces

- **Reinforced Corners**

Side screw reinforcement enhances drop resistance and durability in demanding environments

- **Premium Finish**

CD pattern plum head screws add refined aesthetic while maintaining industrial strength



Advanced Camera & Audio Systems

Camera System



Front Camera: 8MP

- Perfect for video calls & facial recognition



Rear Camera: 16MP AF

- Upgrade path: 20MP / 64MP

Audio Excellence



Large Chamber Speakers

- 4-speaker configuration



Dual Microphones

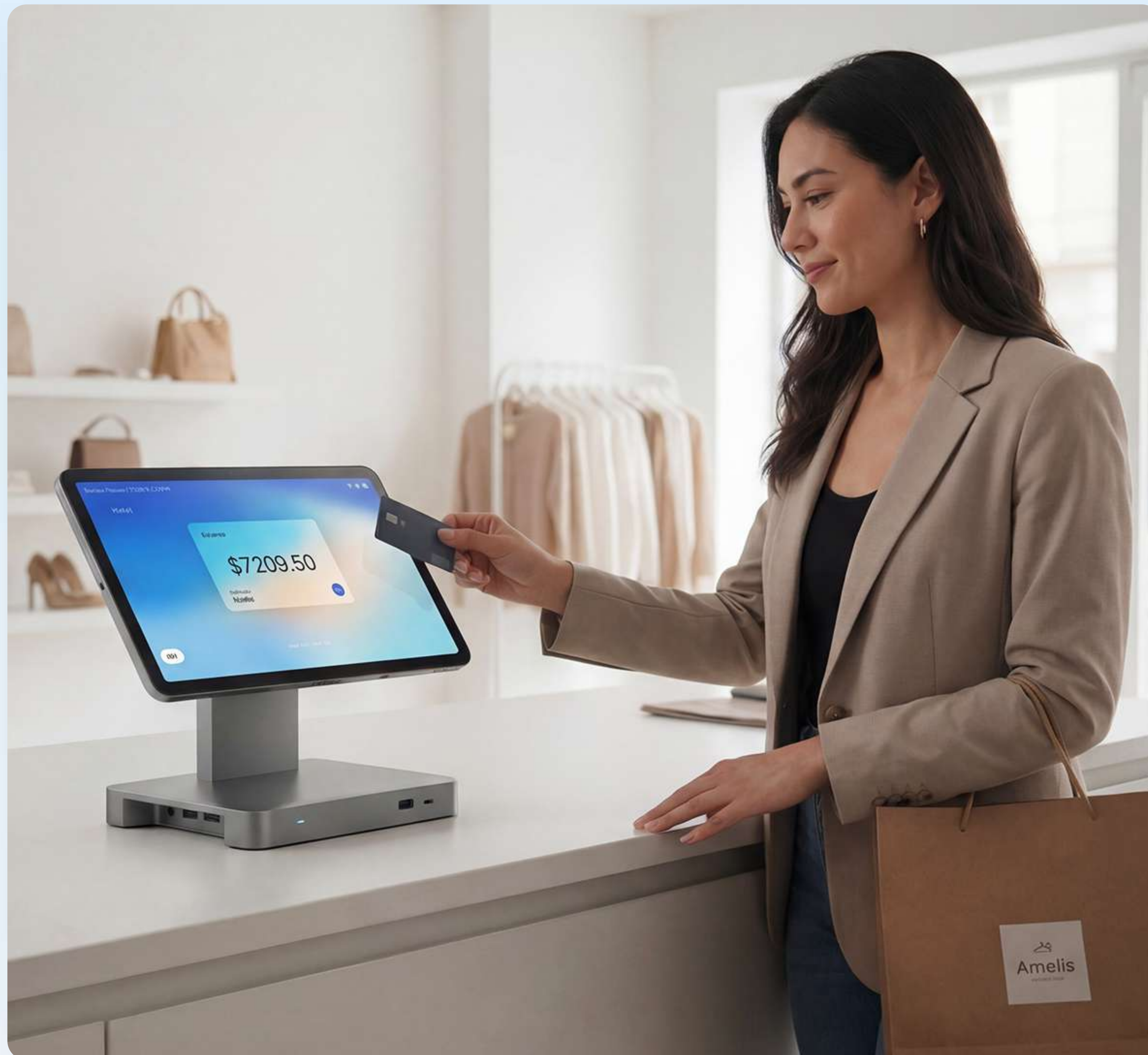
- Built-in primary MIC
- optional noise-cancelling secondary MIC for clear voice capture

✓ Asymmetric F0 Design

Upper speaker F0: 680Hz (mid+high) | Lower speaker F0: 630Hz (mid+low) Delivers rich, full-range audio with clear highs, (full) mids, and deep bass

Retail & POS Solutions

Transform Your Retail Operations



✗ Traditional Challenges

- ✗ Multiple devices cluttering counter space
- ✗ Poor screen visibility under store lighting
- ✗ Slow payment processing increases queues
- ✗ High maintenance and replacement costs

✓ 12-inch NFC Tablets Android Solution

- ✓ All-in-one design: tablet + NFC + dock
- ✓ 450nit high-bright option for window displays
- ✓ NFC enables tap-to-pay in <1 second
- ✓ Dock controls cash drawer via RJ12

📈 Customer Results

Checkout Speed: Faster transactions

Maintenance Cost: Fewer device failures

Staff Satisfaction: Simplified workflow reduces training time

APPLICATION SCENARIOS

Healthcare & Medical Applications

Mobile Rounds

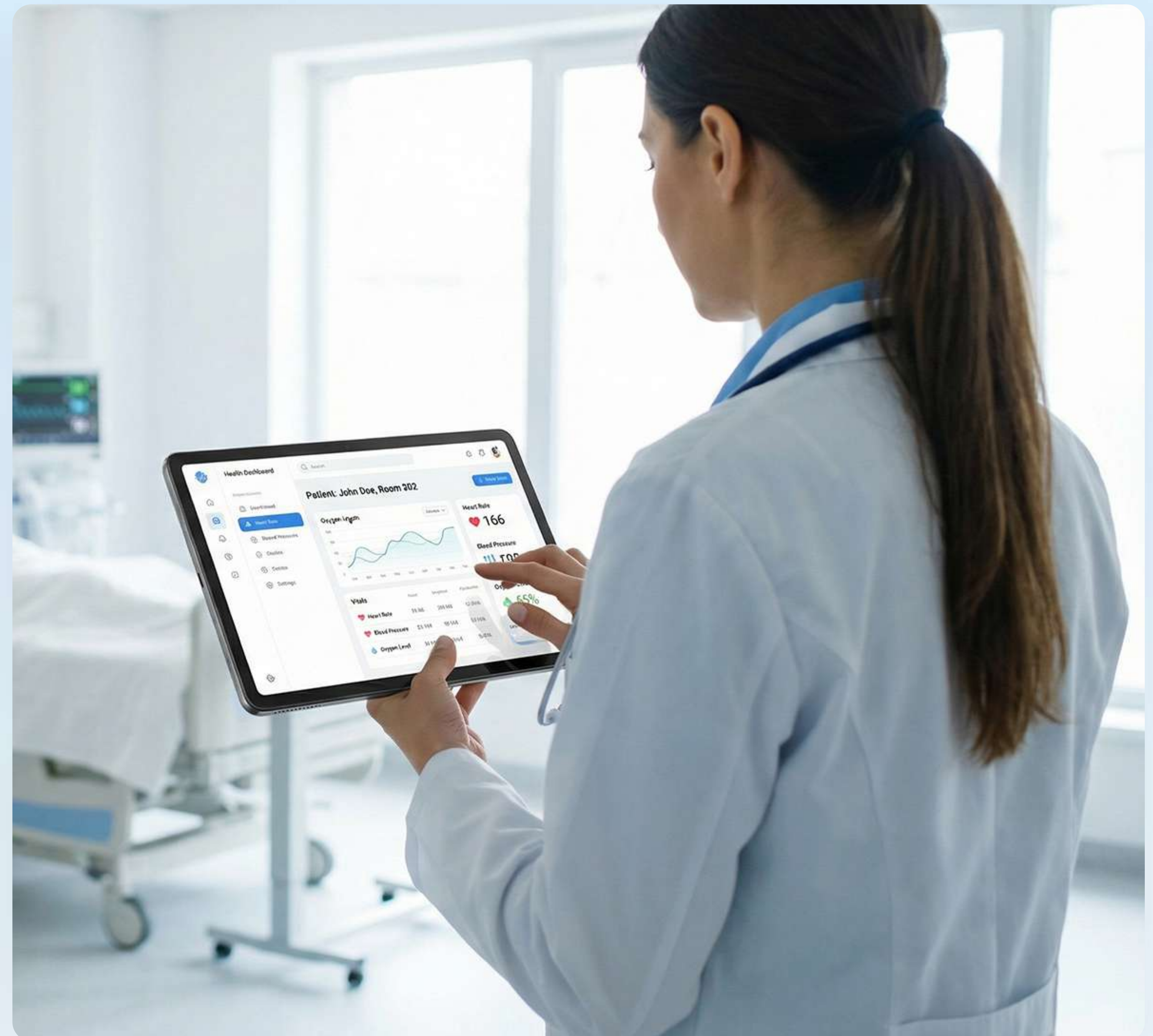
Lightweight 810g design enables comfortable handheld use during patient rounds. Long battery life ensures all-day operation without charging.

Patient Identification

NFC wristband scanning for accurate patient identification, medication administration, and record access.

Key Benefits

- Improved patient care efficiency
- Reduced medical errors through accurate ID
- HIPAA-compliant data security
- Durable for clinical environments



Hospitality & Self-Service



Hotel Self Check-In

- ✓ Streamlined guest registration
- ✓ NFC room key programming
- ✓ Payment processing
- ✓ 24/7 unattended operation
- ✓ Kensington lock security



Restaurant Ordering

- ✓ Table-side ordering system
- ✓ Menu display & customization
- ✓ Payment at table
- ✓ Order transmission to kitchen
- ✓ Customer loyalty integration



Event Ticketing

- ✓ Mobile ticket validation
- ✓ NFC wristband scanning
- ✓ Access control management
- ✓ Real-time attendance tracking
- ✓ Portable outdoor operation



Hospitality Advantages

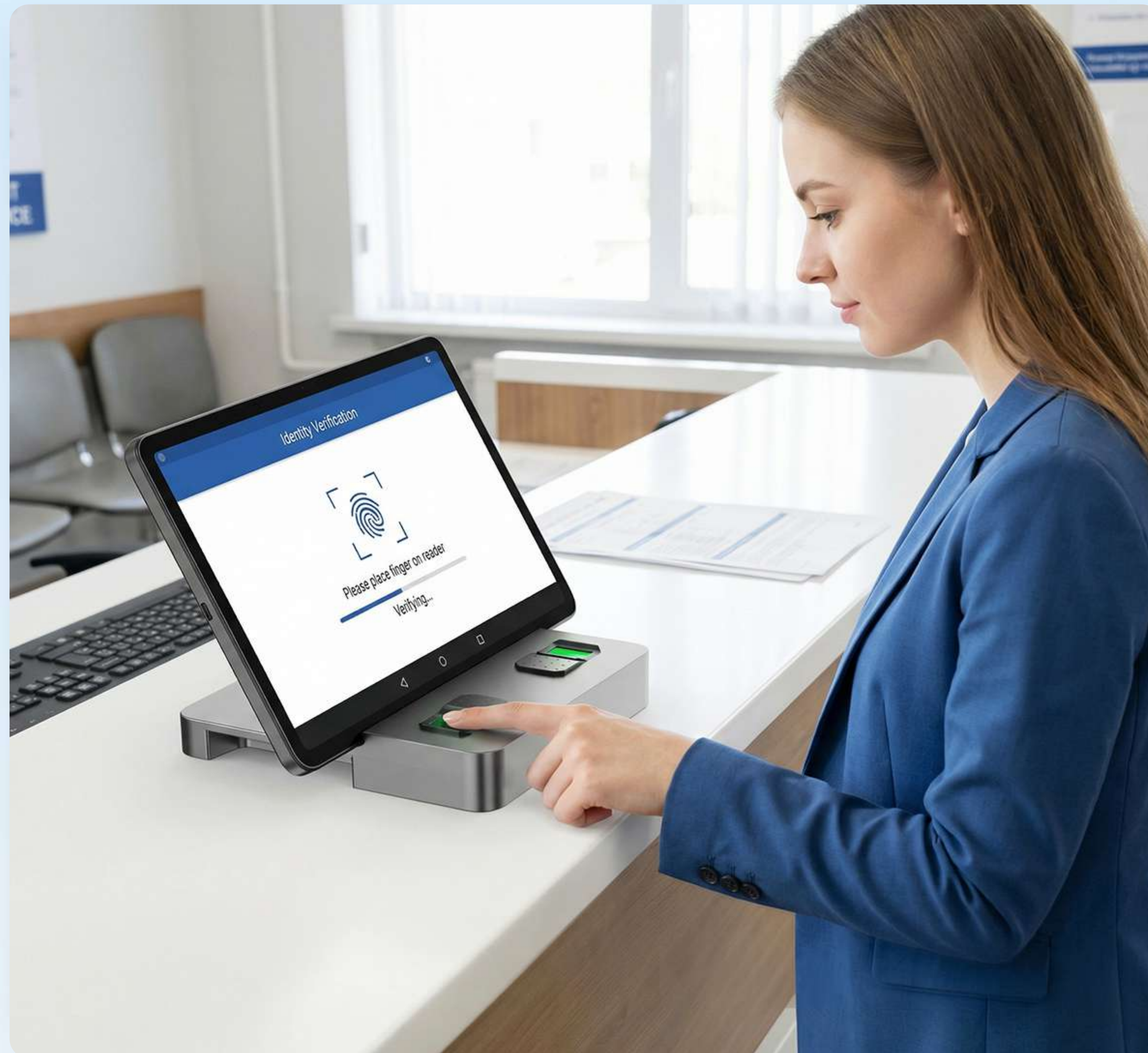
Enhanced Guest Experience: Faster service, reduced wait times, modern self-service options

Operational Efficiency: Staff can focus on high-value interactions while routine tasks are automated

Revenue Opportunities: Upselling through intuitive interfaces, loyalty program integration

Enterprise & Government Services

Secure, Compliant Solutions



Identity Verification

Optional dual-camera module for facial recognition and ID document scanning

Digital Signatures

Reserved electromagnetic pen interface for electronic signature capture

Data Security

Secure boot, encrypted storage, compliance-ready

Multi-System Integration

Android 16 GMS with full API support for legacy and modern enterprise systems

Use Cases

Government service counters • Banking & financial services • Library systems • Transportation hubs • Educational institutions

Full-Chain Customization Capabilities



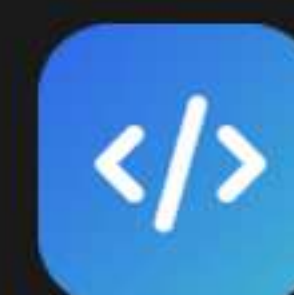
ID & Mechanical

- Custom color & finish
- Logo printing/laser engraving
- Modular bezel design
- Packaging customization
- Low-cost ID refresh



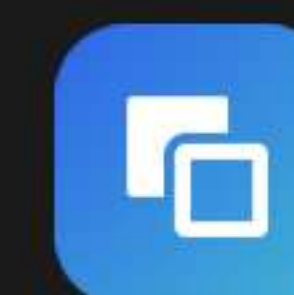
Hardware

- RAM/ROM configuration
- Camera upgrades
- Sensor integration
- Custom POGO PIN modules
- eSIM support



Software

- Android GMS
- Pre-installed apps
- Remote device management
- OTA update services



Accessories & Modules

- Rotating/Fixed Docking Stations
- Wall-Mount & VESA Modules
- Kensington Lock Security Modules
- Fingerprint & Biometric Readers
- Scanner Modules (Front/Magnetic)
- Temp & Humidity Sensors
- Power Backup System Support
- EMR Stylus/ Active Stylus Support
- Custom USB Device integration

✓ Certification Support

Pretech provides comprehensive certification assistance including CE, FCC, RoHS, KC, and EMVCo. Our experienced compliance team guides you through the entire process to ensure market readiness.



Future-Proof Modular Design

Modular Bezel Innovation

Industrial tablets have long lifecycles, while consumer tablet aesthetics evolve rapidly. L1208's modular camera bezel design allows low-cost ID refreshes to match market trends.

Benefits of Modular Design

Reduce NRE Costs

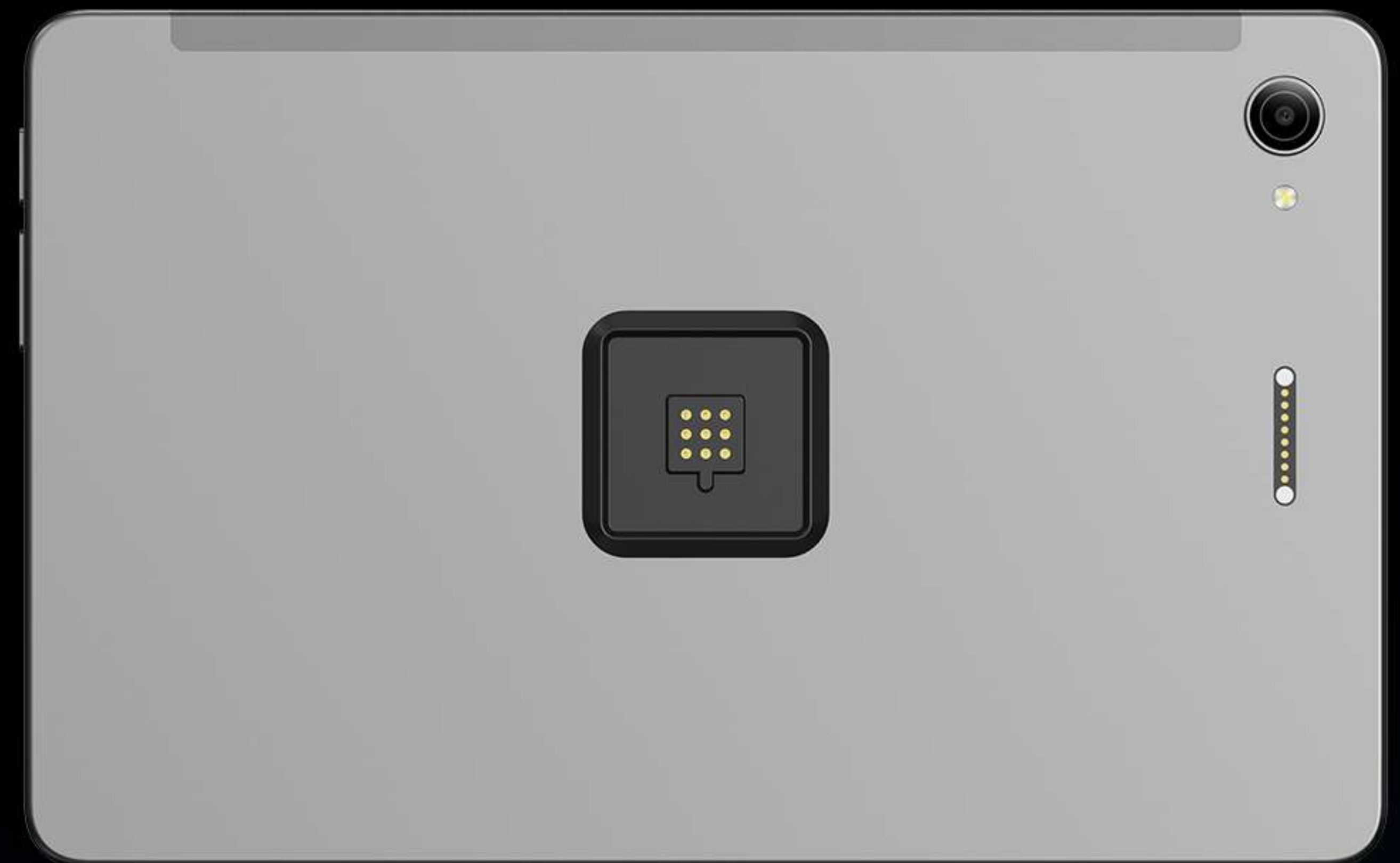
Small mold changes vs. complete redesign saves significant development expenses

Faster Time-to-Market

Quick ID updates keep your product competitive without lengthy redevelopment

Upgrade Paths

Structure(reserved) for higher-resolution cameras, additional sensors, and new features



Extended Product Lifecycle

Refresh appearance and add features without replacing entire platform

Why Choose Pretech as Your ODM Partner?



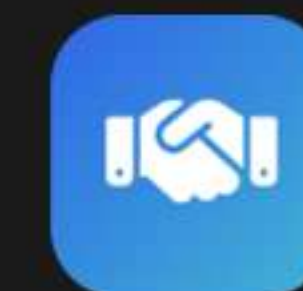
Proven Expertise

10+ years specializing in industrial tablet design and manufacturing with deep understanding of B2B requirements across retail, healthcare, hospitality, and enterprise sectors.



Innovation Focus

Continuous R&D investment in emerging technologies like screen-under NFC, modular design, and advanced biometrics to keep your products competitive.



Client-Centric

High client repurchase rate demonstrates our commitment to long-term partnerships, responsive communication, and delivering on promises.



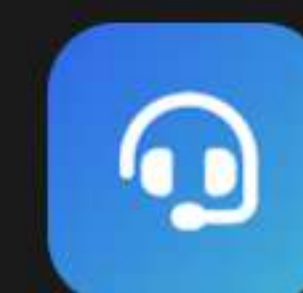
Global Compliance

Extensive experience with international certifications (CE, FCC, RoHS, KC, EMVCo) ensures smooth market entry worldwide.



Flexible Manufacturing

From prototype to mass production, scalable operations support your growth from initial launch to global deployment.



End-to-End Support

24/7 technical support, firmware updates, spare parts availability, and after-sales service throughout product lifecycle.

GET STARTED



Ready to Customize Your Smart Tablet Solution?

Let's discuss how Pretech can help bring your vision to market with the mart tablets platform or a fully customized solution.



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“ Your Vision, Our Engineering Excellence

Pretech transforms your concepts into market-ready industrial tablets that deliver reliability, performance, and competitive advantage.