CS32

Redefining Mobile Productivity in Retail

In the current retail environment, where customer expectations are increasing and operational efficiency is important, the CS32 Personal Shopper offers a solution for retailers.



The CS32 is designed for self-service shopping, allowing customers to scan and pay for their purchases independently. This can reduce waiting times, improve efficiency, and lower operational costs for retailers. With its hardware, user-friendly design, and adaptable software ecosystem, the CS32 serves as a tool for supporting digital transformation in retail environments.

PURPOSE-BUILT FOR RETAIL EXCELLENCE

CS32 is for modern retail spaces, offering digital engagement, improved labor efficiency, and streamlined customer service. Its ergonomic build and robust features make it an ideal shopping assistant.

REVOLUTIONIZING THE IN-STORE EXPERIENCE

The CS32 streamlines in-store shopping by integrating with loyalty programs and digital identities, delivering personalized promotions, product suggestions, and fast checkouts directly to customers' devices.

Retailers benefit from advanced self-checkout that increases customer independence and improves store efficiency.

OPTIMIZED PERFORMANCE FOR SEAMLESS SHOPPING

The CS32, powered by a QCM 4490 processor, delivers quick scanning, payment, and loyalty app performance. With 8GB RAM, 128GB storage, and Android 14 (upgradable to Android 16 and 18), it efficiently supports real-time processing and future retail technologies.

FAST SCANNING AND FRONT NFC FOR CHECKOUT

Equipped with the N670X scan engine, can perform 1D and 2D barcode scanning at a high speed. Its 30° angled LED engine enables users to scan items from multiple angles without changing their grip. The front-facing NFC reader facilitates contactless transactions and loyalty card reading, which can support efficient customer service and streamline the checkout process.

ALL-DAY BATTERY FOR NONSTOP SHOPPING

The CS32 features a 6700mAh battery, providing over *20 hours of use—perfect for busy shopping days. Built-in battery management monitors health, charge cycles, and usage for consistent performance.

Swappable batteries enable quick replacement, while a 4.5-hour charge minimizes downtime. Optional single-slot and 3-bay chargers support different store needs.

SLEEK, DURABLE, AND USER-CENTRIC DESIGN

The CS32 is ideal for in-store self-checkout, with a focus on ergonomic comfort. It measures 13.9 mm in thickness and weighs 360 grams, aiming to facilitate extended use. The device features a 6.0-inch Full HD display protected by Corning® Gorilla® Glass 5, suitable for product scanning, digital advertising, and interactive promotions. The display offers 450-nit brightness to provide visibility under various lighting conditions found in retail settings.

* Battery life of 20+ hours may vary by usage

Honeywell

ENTERPRISE-GRADE CONNECTIVITY

The CS32 is designed to support communication and data transfer in a variety of environments. It features Wi-Fi 6E compatibility for wireless performance in congested networks.

Bluetooth 5.3 with BLE supports low-power, high-speed connections to peripherals such as printers, headsets, and payment terminals, which can contribute to an efficient shopping process.

BUILT FOR RETAIL DURABILITY

The CS32 endures 1.2-meter drops and 1,000 tumbles, works from -10°C to 50°C, and has IP30 protection.

SMART SENSORS FOR ENHANCED USABILITY

An integrated range of sensors—including light, proximity, accelerometer, gyroscope, and eCompass—empowers clients to develop intelligent features such as orientation detection, indoor navigation, and service call functionality. These advanced capabilities increase shopper convenience and facilitate sophisticated retail solutions, including guided shopping and targeted in-store promotions.

FLEXIBLE ACCESSORIES FOR SCALABLE DEPLOYMENT

The CS32 is compatible with various accessories to accommodate different retail environments:

- Single-slot Charge Base for use with individual devices
- 3-bay Charge Base for situations requiring multiple devices
- 3-in-1 Unlock Tool for device access
- Enterprise-grade Power Supplies

These accessories are designed to facilitate device management and maintain efficient operations in stores of varying sizes.

SMART CHARGING ISSUE DETECTION

The CS32 quickly detects charging issues, even if the base is powerless, so businesses can identify faulty devices right away. This helps maximize device use, minimize downtime, and maintain a great customer experience.



CS32 Personal Shopper Technical Specifications

MECHANICAL

Dimensions: 275mm x 78mm x 13.9mm (10.8 in x 3.0 in x 0.55 in)

Weight: 12.8 oz (360g)

Display:
Corning® Gorilla® Glass 5,15.2 cm (6.0 in)

Resolution:
Full High-Definition (1080 x 2160)

Touch Screen: Multi-touch capacitive (CTP)

Backlight and brightness: LED; 450 nits

Hard keys:

Terminal: Dedicated scan button and hidden power button

Charge Base: Physical manual release button.

Audio: 1 speaker, 1 microphone

ENVIRONMENTAL

Operating Temperature: -20° to 50°C (-4°F to 122°F)

Storage Temperature: -30° to 70°C (-22°F to 158°F)

Humidity: 5% to 95% (non-condensing)

Drop (Multiple): 1.2m Multiple drops to concrete as per MIL-STD- 810H at -10° to 50°C (14°F to 122°F)

Tumble: 1000, 0.5m (1.6 ft) tumbles per IEC 60068-2-32 specification

ESD: ± 15KV Air and ± 8KV Contact

Environmental Sealing: IP30

SYSTEM ARCHITECTURE

Processor: Qualcomm 4490 octa-core, up to 2.4 GHz

Operating System: Android 14, upgradable to Android 16 and Android 18, subject to technical feasibility confirmed by Qualcomm

Memory: 8 GB RAM/128 GB Flash

Sensors: Light sensor, Proximity sensor, Accelerometer, Gyroscope, Magnetometer

Interface: Hidden USB2.0 with Type-C, USB OTG supported

Interface Ports: 6 PIN back cover connection

Battery: Li-Ion, 3.635V, 6,700 mAh, smart battery with integrated diagnostics tools

Charging: Less than 4.5 hours to be fully charged

Hours of Operation: 20+ hours (standard battery, varies based on use case)

Decode Capabilities: Honeywell N670X (1D/2D barcode symbology)

EAS Tag Slot: Compatible with Anti-theft EAS tag

Application Software: Honeywell Mobility Edge Utilities and Demos

WIRELESS CONNECTIVITY

WLAN (Wi-Fi Alliance certified): IEEE 802.11 a/b/g/n/ac/ax (2.4GHz, 5GHz, 6GHz3, 2X2 MU-MIMO, DBS supported, IPv4, IPv6

Additional WLAN Features:
802.11 d/e/h/i/k/r/u/v/w/mc

WLAN Security: WEP (40 or 104 bit); Enhanced Open (OWE); WPA/ WPA2 Personal (TKIP, and AES); WPA3 Personal (SAE); WPA/WPA2 Enterprise (TKIP and AES); WPA3 Enterprise (AES) - EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC, LEAP, EAP-PWD; WPA3 Enterprise 192-bit mode (GCMP256) - EAP-TLS;

WLAN Supported EAP:

TLS, PEAP, TTLS, PWD, LEAP, CCX compliant

Fast Roam: PMKID caching; Cisco CCKM; 802.11r; OKC

Bluetooth: V5.3 Bluetooth with BLE

NFC: Integrated front NFC reader, compliant with ISO/IEC 14443A, ISO/IEC 14443 B, ISO/IEC 15693, MIFARE 1K/4K, MIFARE

DESFire, Sony FeliCa, ISO/IEC 18092, Contactless payment support

Security: ISASecure® SDLA 3.0.0 (IA certification) and ISO/IEC 27001:2022 (Honeywell Certification)

ENVIRONMENTAL COMPLIANCE

ROHS DIRECTIVE 2011/65/EU; REACH 1907/2006

ACCESSORIES

Single-bay Charge Base
3-bay Charge Base
3-in-1 Screw Driver
Power Adaptors
Cascade Cable
Battery Pack

WARRANTY

One-year factory warranty

*Specifications are subject to change without notice

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/complianced

For a complete listing of all supported barcode symbologies, please visit

www.honeywellaidc.com/symbologies

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