HONEYWELL
CT45 XP / CT45

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Family of Rugged Mobile Computers

The CT45 mobile computers are rugged, all-purpose productivity tools ensuring ultra-reliable performance, data connectivity and communications for frontline mobile workers in retail, logistics and fieldwork. The CT45 family is designed for businesses that invest in sophisticated solutions and want a durable, stable, secure platform to build them on. Built on the newest generation of Honeywell's Mobility Edge™ platform, the CT45 family delivers the lifecycle, security and durability to optimize solution return on investment long-term.



The CT45 and CT45 XP: A family of versatile and comprehensive mobile computers based on the newest generation of the Mobility Edge platform. Powerful, compact, durable, and easy to use, the CT45 product family enables maximum solution return on investment.

NEW CHALLENGES CALL FOR AN AGILE RESPONSE

Change in the supply chain has only accelerated in recent years, with e-commerce adoption spreading across every demographic group and retail category, elevated safety protocols and disruptions in trade patterns are becoming routine. Businesses are meeting these challenges with new solutions based not only on advanced mobile devices, but also key software capabilities. The CT45 family is integrated with powerful software solutions from Honeywell such as Operational Intelligence asset optimization and Smart Talk unified communications, as well as a broad ecosystem of UEM, WMS, retail and ERP solutions.

FEATURES AND BENEFITS

The Mobility Edge platform allows companies to test and validate applications once, accelerate deployments across the enterprise, optimize device performance, simplify maintenance, and extend product lifecycle.

The highly rugged and sleek CT45 product line is designed to better endure accidental drops and falls. Its protective boot helps to avoid further wear and tear on the device and doesn't need to be removed for charging.

Embedded with the latest Wi-Fi 6 technology, the CT45 XP increases data throughput, and provides a better experience on voice or video communications even in a highly dense connected environment.

Snappy, accurate data capture from a few centimeters (inches) up to 10 meters (32.8 ft) with Honeywell's innovative FlexRange™ scan image, a 13-megapixel, auto-focus camera and 8-megapixel front-facing camera.

Locate and find a lost device via a secondary Bluetooth Low Energy (BLE) beacon even when the primary battery is drained, uninterrupted operation for battery swap with programmatic intervention.

Honeywell

HASSLE FREE CONNECTIVITY INSIDE AND OUTSIDE OF THE FOUR WALLS

Mobile workers often struggle to get up-to-date information in a timely manner to boost efficiency. In response, the CT45 XP leverages the latest Wi-Fi 6 technology to facilitate access to essential information with low latency, even in a highly dense connected environment. Delivery workers can now efficiently access the network outside of the four walls using 4G-LTE advanced technology, keeping mobile frontline workers always connected to crucial information to place orders, check stock, look up order status, or scan items anywhere and anytime.

SURVIVES TOUGH ENVIRONMENTS

Operation downtime results in revenue loss. The CT45 product family enables mobile workers to work while on the road, in the rain, or in a dusty warehouse. Designed to withstand challenging environments with no adverse damage or compromise to device integrity or sacrifice to ergonomic benefits. Built on a sleek design with enhancement on superior ruggedness, the CT45 product family delivers a compact device that mobile workers can carry comfortably throughout the shift and which also can endure accidental drops and falls.

IMPROVED PRODUCTIVITY AND EASE OF USE

The CT45 product family extends the usability of an enterprise class device by offering a converged solution for cycle counting, on-demand delivery and asset management. It is integrated with the Honeywell Operational Intelligence solution and is available with FlexRange and 7th Generation scan options, an 8-megapixel front-facing camera, and a full suite of accessories. The full high-definition display (1920*1080p) makes it easy to use and supports modern high definition software.

PROTECT INVESTMENT OF OWNERSHIP

Stolen, misplaced or lost assets increase critical information and asset leakage risks. Featuring “Device Finder” capability, CT45 XP can easily locate lost devices even when the batteries are drained after a certain period of time. This helps to prevent permanent device loss and protect your investment.

BUILT ON THE MOBILITY EDGE PLATFORM

Built on the newest generation of Honeywell’s Mobility Edge platform, a durable, stable, secure foundation for effective, long lasting solutions, the CT45 family delivers the lifecycle, security and durability required by serious businesses. The CT45 leverages the latest processor and memory technology for high performance with guaranteed support through Android 13, with a commitment to support through Android 14 and Android 15, subject to feasibility.

1. CT45 product family passes (6 ft) drops to concrete at -20°C to +50°C (-4°F to +122°F) per MIL-STD-810H; multiple 2.4 m (8 ft) drops to concrete with protective boot at -20°C to +50°C (-4°F to +122°F) per MIL-STD-810H

CT45 XP / CT45 Technical Specifications

MECHANICAL

Dimensions: 163 mm x 79 mm x 19.2 mm

Weight: 282 g (9.9oz) with battery pack

Display Size: 12.7 cm (5.0 in)

Resolution: Full High Definition (1920 x 1080) (CT45XP); High-Definition (1280 x 720) (CT45)

Backlight: LED

Touch Panel: Rugged multi-touch capacitive touch panel, optically-bonded for extra durability. Glove, stylus and rain modes supported (CT45 XP). Water droplet rejection with screen protector mode. Covered with Gorilla Glass 5 for increased resistance to drops.

Hard Keys: Volume up/down key, left/right scan, power button, Push to Talk button.

Soft Key: On-screen scan button, reprogrammable into an application quick-launch key.

Audio: 3.5 mm jack**, PTT, VoIP ready, speaker, HAC-compliant.

Three microphones with noise cancellation

I/O Ports: Durable, flat IO connector, USB Type C connector.

USB OTG supported via I/O ports

USB 3.0 is supported via USB Type C

Universal Dock Platform: Compatible

ENVIRONMENTAL

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

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

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

Drop: Multiple 1.8 m (6 ft) drops to concrete at -20°C to +50°C (-4°F to +122°F) per MIL-STD-810H; multiple 2.4 m (8 ft) drops to concrete with protective boot at -20°C to +50°C (-4°F to +122°F) per MIL-STD-810H

Tumble: Exceeds 1,500 times at 1m (3.28 ft) per IEC 60068-2-32 specification

ESD: ±8 kV direct; ±15 kV air

Environmental Sealing: Independently certified to meet IP68 and IP65 standards for moisture and particle intrusion

Thermal Shock: -30°C to +70°C

SYSTEM ARCHITECTURE

Processor: Qualcomm QCS4290/ QCM4290 octa-core, 2.0GHz

Operating System: Each Android version guaranteed from Android 11 to at least 13, committed support for Android 14 and Android 15, pending feasibility

Memory: 6 GB DDR4x RAM, 64 GB UFS Flash (CT45XP); 4 GB DDR4x RAM, 64 GB UFS Flash (CT45)

Camera: 13-megapixel rear camera; 8-megapixel front-facing camera.

Sensors: Ambient light sensor, proximity sensor, accelerometer, gyroscope, magnetometer, barometer (Model dependent), eCompass (Model dependent), hall sensor, high gravity sensor

SIM:

CT45 XP: Available with configurations of eSIM and Nano SIM or configurations of 2 Nano SIMs

CT45: Available with configurations of 2 Nano SIMs

Storage Expansion: User-accessible microSD card up to 512 GB (SDXC/SDHC/ SDIO-compliant)

Battery: Li-Ion, 3.85 V, 4020 mAh; smart battery with integrated diagnostic tools

Battery warm swap: Available on CT45 XP

Charging: Quick Charge 3.0 compliant; Less than 3 hours to be fully charged.

Hours of Operation: 12+ hours

Decode Capabilities: Honeywell FlexRange, Honeywell S0703 (1D/2D barcode symbologies), Honeywell SDKs for Android

Application Software: Honeywell Mobility Edge Utilities and Demos

WARRANTY

One-year factory warranty

WIRELESS CONNECTIVITY

WWAN: WWAN Radio (ATT/VZW/SPRINT/ TMO/NA/EU)

AT&T FirstNet Compliant

LTE Advanced Support

Up to 390 Mbps CAT13 LTE downlink

Up to 75 Mbps CAT5 LTE uplink

LTE – Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 19, 20, 25, 26, 28, 29, 30, 38, 39, 40, 41, 66, 71

UMTS/HSPA+ (3G) – Bands 1, 2, 4, 5, 6, 8, 9, 19

GSM: 850, 900, 1800, 1900 (Quad Bands)

WLAN: Wi-Fi certified

CT45 XP WLAN: IEEE 802.11 a/b/g/n/ac/ ax and 2*2 MU-MIMO

All other configurations: IEEE 802.11 a/b/g/n/ac

All SKUs: 802.11 d/e/h/i/k/r/v/u/w/mc

WLAN Security: OPEN, WEP, WPA/WPA2/ WPA3

(Personal and Enterprise)

Supported EAP: TLS, PEAP, TTLS, PWD, LEAP, CCX compliant (except CT45XP WLAN)

Bluetooth®: V5.1 Bluetooth and BLE

2nd BLE: Available on CT45 XP

Bluetooth Profiles: HFP, PBAP, A2DP, AVRCP, OPP, SPP, GATT

NFC: Integrated NFC reader, compliant with ISO/IEC 14443 A, ISO/IEC 14443 B, ISO/IEC 15693 (ICode), MIFARE 1K / 4K, MIFARE DESFire, Sony FeliCa, ISO/IEC 18092 (Type F)

VPN: IPSec V4/L2TP, PPTP

Push to Talk (PTT): Supported

GPS Supported Protocols: Simultaneous GNSS Receiver Support for GPS, GLONASS, Galileo, and Beidou, Assisted GPS

*** Specifications are subject to change without notice.**

**** 3.5mm jack is available on Wi-Fi version only.**

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

For a complete listing of all supported barcode symbologies, please visit www.honeywellaidc.com/symbologies.

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