CT47

Ultra-Rugged Mobile Computer



The CT47: Ultra-rugged 5G mobile computer on the Mobility Edge™ platform

CT47 mobile computers are ultra-rugged, all-purpose hand-held devices, providing reliable performance, 5G data connectivity and communications for frontline mobile workers in warehouse, logistics and fieldwork.

The CT47 is enhanced for performance with a superior rugged design for any environment and is optimally balanced with durability and functionality in mind to keep business workflows moving and operations flowing. Combined with powerful software including Operational Intelligence, Smart Talk communications, Smart Pay, and more, the CT47 is the ideal choice for users in transport & logistics and warehouse.

Mobility Edge™, a Durable, Stable, Secure Platform

Built on the Mobility Edge platform, a durable, stable, secure foundation for effective, long-lasting solutions, the CT47 delivers the lifecycle, security and durability required by serious businesses. CT47 harnesses the latest processor and memory technology for high performance with planned support through Android 16. Combined with the powerful, cloud-based, Operational Intelligence asset optimization solution, IT leaders can empower operations with critical analytics to enable higher productivity and low TCO, all with a user experience that keeps frontline workers productive and engaged.

Durable and Reliable

The CT47 is designed to endure the most challenging environments. Transport and logistics and warehouses are as busy as ever and customers need to keep their operations and workflows up and running. Workers in the field and warehouse can rely on the ultra-rugged design, the CT47 can withstand up to 8ft drops and over 3,500 real-world tumbles. The new enhanced extended and wireless battery options keep the CT47 online throughout the demanding shifts. Built upon a sleek form factor, the CT47 is optimally designed with screen visibility and ruggedness in mind.

FEATURES AND BENEFITS

The Mobility Edge platform is a durable, stable and secure foundation for effective, long-lasting solutions, providing optimized performance and accelerated deployments in the field.

The ultra-rugged design on the CT47 makes it the optimal choice for the demanding environments for workers in Transport & Logistics and Warehouses, with one of the best in class drop and tumble ratings.

The CT47 comes with the latest 5G and Wi-Fi 6E technology to stay connected, including CBRS and private networks. 5G offers the highest bandwidth and lowest latency available, to provide a better experience on data intensive applications.

Quick and accurate data capture from 3 inches (8 centimeters) up to 80 feet (24 meters) with Honeywell's innovative FlexRange XLR scan engine; supporting virtually every use case.

Outfitted with Multi-factor Biometric Authentication, the CT47 keeps user and company data secure. Registration is quick, data is encrypted, and operations can keep moving securely.

Honeywell

Modern Processor and Solid Connectivity
With the latest octa-core processor loaded with Qualcomm 6th gen AI engine and graphics processing, the CT47 has sufficient processing power to handle all traditional applications and stands ready to handle new, demanding applications that our customers are developing to deploy for their workflows.

The CT47 also comes with the latest 5G and Wi-Fi 6E technology to stay connected in both indoor and outdoor environments. 5G offers the highest bandwidth and lowest latency available for transport and delivery workers, and within a warehouse to always stay connected. Whether you are on a private 5G or CBRS network, or a Wi-Fi 6E environment, your workers can continue their workflows with reliable uptime.

Ultimate Security
Fitted with flexible and customizable Multi-Factor Authentication technology, the CT47 keeps your data and mobile computer safe and secure. The fingerprint sensor is ideal for one-handed operation and easy to access biometric authentication. Multiple templates can be stored locally for multiple user login access. Facial recognition can be accessed from the front-facing camera to access the device quickly and securely. Registration is quick and user data is encrypted and stored locally.

FlexRange™ XLR Scan Engine
Armed with the latest FlexRange XLR scan engine, the CT47 provides high-powered scanning performance for the industrial warehouse workers and those that demand the farthest scanning technology. The ultimate in flexibility, FlexRange XLR enables virtually every scanning use case in a single, compact device without compromising range or speed, enabling businesses to focus on fewer device types to manage.

Powerful Enterprise Software
CT47 is compatible with software for retail, warehouse, distribution center, manufacturing and last-mile delivery applications.

Operational Intelligence suite of solutions delivers deep operational insights, enables workflow automation that prevents issues before they happen and helps manage issues in real time to greatly reduce IT support costs.

Smart Talk Unified Communications overcomes the problem of fragmented communications and empowers teams with enterprise-grade security for voice calling, text and media messaging, and user presence – all from one device.

Honeywell SmartPay solution enables transport & logistic businesses with delivery and pickup operations to process secure, PCI-compliant payments, including simple tap-to-pay and pin-on-glass without bulky hardware add-ons.

Accessory Ecosystem
The CT47 arrives with a complete set of accessories, including Universal charge bases, which are adaptable for any Honeywell mobile computer form factor through the use of easily swappable cups. Other accessories include scan handles, vehicles docks, holsters, a protective boot for added ruggedness, an IH45 RFID handle, and spare extended and wireless batteries.

CT47 Mobile Computer Technical Specifications

MECHANICAL

Dimensions: 170 mm x 79 mm x 19.2 mm (6.69 in x 3.11 in x 0.75 in) with standard battery pack; 170 mm x 79 mm x 22.6 mm (6.69 in x 3.11 in x 0.89 in) with extended battery pack

Weight: 314g (11.1oz) with standard battery pack; 358g (12.6oz) with extended battery pack

Display Size: 13.97 cm (5.5 in)

Resolution: Full High-Definition (2160 x 1080)

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

Backlight: LED

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

Audio: 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 3.1 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): 3.0m (10ft) to concrete at room temperature per MIL-STD 810H booted. 2.4m (8 ft) to concrete at -20°C to 50°C (14°F to 122°F) per MIL-STD 810H booted; 2.4m (8ft) to concrete at room temperature per MIL-STD 810H, 1.8m (6ft) to concrete at -20°C to 50°C (14°F to 122°F) per MIL-STD 810H

Tumble: Exceeds 3500 0.5 m (1.64 ft) tumbles and 2000 1.0m (3.28 ft) tumbles per IEC 60068-2-32 specification

ESD: ±15 kV Air and ±8 kV Direct

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

SYSTEM ARCHITECTURE

Processor: Qualcomm QCS6490/ QCM6490 octa-core, 2.7GHz

Operating System: Each Android version planned from Android 12 to 16

Memory: 8GB DDR4x RAM, 128GB UFS Flash

Camera: 13-megapixel rear camera, 8-megapixel front-facing camera

Sensors: Ambient light sensor, Proximity sensor, Accelerometer, Gyroscope, Magnetometer, Barometer, eCompass, Hall sensor, High-G sensor

Storage Expansion: User-accessible microSD card up to 2 TB (SDXC/SDHC/ SDIO-compliant)

SIM: 1 eSIM and 1 nano SIM

Battery: 4775mAh standard battery, 4680mAh wireless battery, 7692mAh extended battery. Smart battery with integrated diagnostics tools

Battery Warm Swap: Yes

Charging: Quick Charge 3.0 compliant;

Decode Capabilities: Honeywell FlexRange™ XLR, Honeywell FlexRange SO803, Honeywell SO703 (1D/2D barcode symbologies), Honeywell SDKs for Android, SmartOCR, DPM supported via license

Application Software: Honeywell Mobility Edge Utilities and Demos

WIRELESS CONNECTIVITY

WWAN: Global band support, device certified with GCF-PTCRB, ATT, TMO, VZW

AT&T FirstNet Compliant

LTE Advanced Support

Up to 390 Mbps CAT13 LTE downlink

Up to 75 Mbps CAT5 LTE uplink

4G-LTE DL CAT18: ~1200 Mbps

4G-LTE UL CAT18: ~211 Mbps

5G NSA-DL: ~2400 Mbps, UL: ~1200 Mbps

5G SA-DL: ~2200 Mbps, UL: ~1000 Mbps

4G LTE: DL CAT18, ~1200 Mbps

4G LTE: UL CAT18, ~211 Mbps

5G FR1: Bands 1, 2, 3, 5, 7, 8, 12, 14, 20, 25, 28, 30, 38, 40, 41, 48, 66, 71, 77, 78, 79

LTE: Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 29, 30, 32, 38, 39, 40, 41, 42, 43, 48, 66, 71

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

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

4X4: Download MIMO supported on bands below:

5G: n7, n38, n41, n48, n77, n78, n79

4G: B7, B41, B42, B43, B48

PRIVATE NETWORK SUPPORT

WLAN: Wi-Fi certified; Wi-Fi 6E certified

IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w/ mc/ax, 2x2 MU-MIMO;

Wi-Fi 6E (801.11ax); Dual Band Simultaneous(DBS); IPv4, IPv6

WLAN Security: OPEN, WEP, WPA/WPA2/ WPA3 (Personal and Enterprise)

Supported EAP: TLS, PEAP, TTLS, PWD, LEAP, CCX compatible

Bluetooth: V5.2 Bluetooth and BLE

2nd BLE: Availble on all SKUs. Bluetooth profiles includes HFP, PBAP, A2DP, AVRCP, OPP, SPP, RATT

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), Contactless payment support, P2P mode.

VPN: IPSec V4/L2TP, PPTP

Push to Talk (PTT): Supported

GPS Supported Protocols: GPS, GLONASS, Galileo, Beidou, NAVIC, QZSS.

Dual-Band GNSS — concurrent L1/G1/ E1/B1 (GPS/QZSS, GLONASS, Galileo, BeiDou) + L5/E5a/B2a (GPS/QZSS, Galileo, BeiDou); a-GPS, Supports XTRA, SBAS.

NON-INCENDIVE AND ATEX

US/Canada:

Class 1 Div 2, Groups A, B, C, and D

Class 2 Div 2, Groups F, G

Class 3

T5, -20°C < Tamb <50°C (-4°F to 122°F)

ATEX:

Ex II 3G Ex ic op is IIC T5 Gc IP64

Ex II 3D Ex ic op is IIIB T135°C Dc IP64, -20°C < Tamb <50°C

IEC Ex:

Ex ic op is IIC T4 Gc IP64

Ex ic op is IIIB T135°C Dc IP64

-20°C <Tamb <50°C

GOVERNMENT SECURITY AND ENCRYPTION

Data in Motion:

FIPS 140-3 Level 1 and **FIPS** 140-2 Level 1 certified;

STIG, Common Criteria Certified; APL Listed; TAA Compliant (Model dependent)

WARRANTY

One-year factory warrant

*Specifications are subject to change without notice

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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For more information

automation.honeywell.com

Honeywell Industrial Automation

855 S Mint St

Charlotte, NC 28202

800-582-4263

www.honeywell.com

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