



Honeywell

CK65 MOBILE COMPUTER

Battlecard



OVERVIEW

One Device. Three Shifts. Maximum Productivity and Lifecycle. Based on the Mobility Edge platform.

- Best-in-class ruggedness, yet lightweight and comfortable to carry and use for a full shift
- Helps streamline and error-proof warehouse and manufacturing work for three full shifts – without a battery change – thanks to industry-leading battery life
- Longest mobile lifecycle in the industry: Support through Android R and guaranteed security updates beyond Google's last patch
- Built-in keypad and touchscreen; use both newer touch-based and older key-based legacy applications
- Flexible scanner with best-in-class motion tolerance, extended working range, and wide field of view
- Best-in-class wi-fi; NFC is standard
- Replaces CK3X/R and CK75 devices
- Free built-in software: Honeywell Client Pack

INDUSTRY APPLICATION

- Warehouses and shipping & distribution centers, especially those transitioning from Windows® to Android that want to use both newer touch-based and older key-based legacy applications
- Current CK3X/R mobile computer users; CK65 is backwards compatible, so businesses can reduce costs by reusing existing accessories and batteries

WHY HONEYWELL

What Is Mobility Edge?

It's a unified hardware and software platform for Honeywell mobile computers, and it's like nothing else in the industry.

A lot of research tells us that customers want mobile devices they can use without worry or hassle for as long as possible. They don't want to have to keep getting new devices just to handle the next software update.

The key to a longer-lasting mobile solution, we realized, lies in the microchip. So we unified around a single, best-in-class microprocessor chip that can handle Android™ OS updates for longer than any competitor's devices can.

Mobility Edge™ is the result of a multimillion-dollar R&D investment by Honeywell and a collaboration with Qualcomm®, our microprocessor chip provider, along with the Google® Android team.

Same SOM

All devices on the Mobility Edge platform use the same System On Module (SOM). This SOM is a fully integrated circuit board containing all the key components such as processor, memory, and communications components.

Why Does It Matter?

We can guarantee that all Mobility Edge devices will be able to handle three more Android upgrades (through Android 11 or R). That's one more software update than any Zebra device can handle. Mobility Edge is also supported with patches all the way through 2028.

Devices remain up to date over multi-year deployments, with guaranteed security updates every 90 days for at least five years.

Using the same SOM module and operating system image enables scalability and seamless integration across all form factors.

Enterprise customers can easily deploy using multiple provisioning options, including Zero-Touch Enrollment (Google's fast and simple deployment method).

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	HONEYWELL CK65	Zebra MC3300	DIFFERENTIATION
Platform/OS	<p>Mobility Edge</p> <ul style="list-style-type: none"> • Android 9.0 (P), upgradable through Android 11.0 (R) • Faster deployments • Business optimization • Longer lifecycle • Stronger security 	<p>Mobility DNA</p> <ul style="list-style-type: none"> • Android 7.0 (Nougat) – AOSP; GMS – select configurations • Only support through Android Q • A mixture of hardware designs and an assortment of software • MC3300 and MC9300 use different processors, have different OS support, and therefore require more work to deploy a mixed fleet of units because validations must happen twice 	<p>Mobility Edge provides a common HW/SW platform across multiple form factors with free OS upgrades through Android R; also supported with patches through 2028.</p> <ul style="list-style-type: none"> • Only platform with guaranteed support through Android 11 or R • Faster deployments • Business optimization • Longer lifecycle • Stronger security
User Environment	<p>Drop spec: Multiple 3.0 m (10 ft) drops to concrete at room temperature, 2.4m (8ft) across all temperatures per MIL-STD 810G</p> <p>Sealing: IP65 & IP68</p>	<p>Drop spec: Multiple 1.5 m (5 ft) drops to concrete across temperature range</p> <p>Sealing: IP54</p>	<ul style="list-style-type: none"> • More rugged; best drop spec to concrete <i>across temperature range at 3.0m (10 ft)</i> • Overmolding provides extra drop protection • Reduces downtime and service spare pool on site • Reduced TCO, less business risk • IP65 & 68 rating is optimal for warehouse/DC environment
Battery	<ul style="list-style-type: none"> • 7000 mAh • Hot swap • Fast charging • 28 hours maximum battery life 	<ul style="list-style-type: none"> • Standard: 2700 mAh • High capacity: 5200 mAh • Hot swap • Fast charging • 12+ hours maximum battery life 	<ul style="list-style-type: none"> • Fast charging with existing CK3X/R cradles, and compatible with CK75 FlexDock when a CK3 cup is used • Industry-leading battery life supports up to 3 shifts without battery swap • 10+ more hours of battery life than the Zebra MC3300 • Less downtime, fewer interruptions, less investment in spares
Size	<ul style="list-style-type: none"> • N6703SR / N6803FR: 22.7 cm x 8.3 cm x 4.2 cm (8.9 in x 3.3 in x 1.6 in) • EX20: 22.7 cm x 8.3 cm x 4.7 cm (8.9 in x 3.3 in x 1.8 in) 	<p>Brick: 20.2 cm x 7.5 cm x 3.5 cm (7.9 in x 2.9 in x 1.4 in)</p> <p>Gun: 20.3 cm x 7.5 cm x 16.4 cm (8 in x 2.9 in x 6.5 in)</p>	<p>Comfortable to be carried around all shift long while offering the most rugged spec in this category</p>

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(continued)

	HONEYWELL CK65	Zebra MC3300	DIFFERENTIATION
Weight (with battery)	<ul style="list-style-type: none"> • N6703SR / N6803FR: 498 g (1.1 lbs) • EX20: 544 g (1.2 lbs) • Pistol weight: 120 g (0.26 lbs; 4.2 oz) 	<ul style="list-style-type: none"> • Straight Shooter: 375 g (0.83 lbs) • Gun/Pistol: 505 g (1.1 lbs) 	Although not as light as the MC3300, the CK65 is considered a more rugged yet lightweight mobile computer that's ergonomic and balanced with or without the scan handle
Touchscreen	<ul style="list-style-type: none"> • Corning Gorilla Glass® 5 • Rugged multi-touch capacitive touch panel, optically bonded • Superior water rejection performance 	Corning Gorilla Glass 5 touch panel with air gap	<ul style="list-style-type: none"> • Optically bonded display provides better viewability and durability • Corning Gorilla Glass 5 • Recessed and optically bonded display makes the CK65 more reliable (in addition to the better drop spec)
Barcode Scanning	<ul style="list-style-type: none"> • N6703SR Imager (1D/2D) • N6803FR Imager (FlexRange) 5.1cm – 10.7m (2 in-35 ft) w/ instant focus • EX20 Near/Far Imager: 15.2 cm to 15.2 m (6 in to 50 ft) • DPM available 	<ul style="list-style-type: none"> • SE965 1D • SE4750SR 2D • SE4850 ERI: 7.6 cm to 21.3 m (3 in to 70 ft) 	<ul style="list-style-type: none"> • N6703SR scanner has the best motion tolerance in the industry • N6803FR scanner's dual lens simultaneously captures near and mid/far range with no moving parts and instantaneous focus • EX20 50 ft scan range is sufficient to meet all warehouse use cases
Communications	<p>WLAN: IEEE 802.11 a/b/g/n/ac; Wi-Fi Certified; Wi-Fi 2x2 MIMO</p> <p>Additional WLAN Features: 802.11 d/e/h/i/k/r/w</p> <p>WLAN security: OPEN, WEP, WPA/WPA 2 (Personal and Enterprise)</p> <p>Bluetooth®: Version 5.0 Bluetooth and BLE</p> <p>Near Field Communication (NFC): Standard in all models</p>	<p>WLAN: 802.11 a/b/g/n/ac/d/h/i/k/r/w; Wi-Fi Certified; Wi-Fi 2x2 MIMO</p> <p>WLAN security: WEP, WPA/WPA 2 PAS/Enterprise</p> <p>Bluetooth: Version 5.0 Bluetooth and BLE</p> <p>NFC: Only available on Premium and Premium + models</p>	NFC: Standard in all CK65 models; simplified hardware configuration

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	HONEYWELL CK65	Zebra MC9300	DIFFERENTIATION
Platform/OS	<p>Mobility Edge</p> <ul style="list-style-type: none"> • Android 9.0 (P), upgradable through Android 11.0 (R) • Faster deployments • Business optimization • Longer lifecycle • Stronger security 	<p>Mobility DNA</p> <ul style="list-style-type: none"> • Android 8.1 Oreo • Planned support for Android Q • A mixture of hardware designs and an assortment of software • MC3300 and MC9300 use different processors, have different OS support, and therefore require more work to deploy a mixed fleet of units because validations must happen twice 	<p>Mobility Edge provides a common HW/SW platform across multiple form factors with free OS upgrades through Android R; also supported with patches through 2028.</p> <ul style="list-style-type: none"> • Only platform with guaranteed support through Android R (11) • Faster deployments • Business optimization • Longer lifecycle • Stronger security
User Environment	<p>Drop spec: 3.0 m (10 ft) drops to concrete at room temperature.</p> <p>Multiple 2.4 m (8 ft) drops to concrete across temperature range per MIL-STD 810G.</p> <p>Sealing: IP65 & 68</p>	<p>Drop spec: Multiple 2.4 m (8 ft) drops to concrete at room temperature per MIL-STD 810G; multiple 1.8 m (6 ft) drops to concrete across the operating temperature range</p> <p>Sealing: IP65 and IP67</p>	<ul style="list-style-type: none"> • More rugged; best drop spec to concrete at room temperature. • Reduces downtime and service spare pool on site • Reduced TCO, less business risk • IP65 & 68 rating is optimal for warehouse/DC environment
Battery	<ul style="list-style-type: none"> • 7000 mAh • Freezer: 5200 mAh • Hot swap • Fast charging • 28 hours maximum battery life • 37% increase in capacity 	<ul style="list-style-type: none"> • Standard: 7000 mAh • Freezer: 5000 mAh • Hot swap • Fast charging • Hours maximum battery life: N/A 	<ul style="list-style-type: none"> • Fast charging with existing CK3X/R cradles, and compatible with CK75 FlexDock when a CK3 cup is used • Industry-leading battery life supports up to 3 shifts without battery swap • Less downtime, fewer interruptions, less investment in spares
Size	<ul style="list-style-type: none"> • N6703SR/N6803FR: 22.7 cm x 8.3 cm x 4.2 cm (8.9 in x 3.3 in x 1.6 in) • EX20: 22.7 cm x 8.3 cm x 4.7 cm (8.9 in x 3.3 in x 1.8 in) 	<p>Gun: 24 cm x 8.9 cm x 18.9 cm (9.4 in x 3.5 in x 7.4 in)</p>	<p>Comfortable to be carried around all shift long while offering the most rugged spec in this category</p>
Backward Compatibility	<p>True compatibility with CK3X/R accessories</p>	<p>Does not offer true backward compatibility</p>	<p>MC9300: Only a very few legacy accessories can be used by ordering a cup</p>

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(continued)

	HONEYWELL CK65	Zebra MC9300	DIFFERENTIATION
Weight (with battery)	<ul style="list-style-type: none"> • 6703SR/6803FR: 498 g (1.1 lbs) • EX20: 544 g (1.2 lbs) • Pistol weight: 120 g (0.26 lbs; 4.2 oz) 	<ul style="list-style-type: none"> • 765 g (1.7 lbs) 	<ul style="list-style-type: none"> • CK65 is a lightweight, ergonomic, and balanced device with or without scan handle • MC9300 is heavy on the scanner side; its central gravity is towards the front, therefore, when you hold the device via the gun, the device will slide to level down, which is counter to user behavior
Touchscreen	<ul style="list-style-type: none"> • Corning Gorilla Glass 5 • Rugged multi-touch capacitive touch panel, optically bonded • Superior water rejection performance 	Corning Gorilla Glass 5 touch panel with air gap (standard model)	<ul style="list-style-type: none"> • Optically bonded display provides better viewability and durability • Corning Gorilla Glass 5
Barcode Scanning	<ul style="list-style-type: none"> • N6703SR Imager (1D/2D) • N6803FR Imager (FlexRange) 5.1cm – 10.7m (2 in-35 ft) w/ instant focus • EX20 Near/Far Imager: 15.2 cm to 15.2 m (6 in to 50 ft) • DPM available 	<ul style="list-style-type: none"> • SE965 (1D) • SE4750SR (1D/2D) • SE4850ER (1D/2D): 7.6 cm to 21.3 m (3 in to 70 ft) • SE4750DP (1D/2D) with Diffuser (DPM) 	<ul style="list-style-type: none"> • N6703SR scanner has the best motion tolerance in the industry • N6803FR scanner’s dual lens simultaneously captures near and mid/far range with no moving parts and instantaneous focus • EX20 50 ft scan range is sufficient to meet all warehouse use cases
Communications	<p>WLAN: IEEE 802.11 a/b/g/n/ac; Wi-Fi Certified; Wi-Fi 2x2 MIMO</p> <ul style="list-style-type: none"> • Additional WLAN Features: 802.11 d/e/h/i/k/r/w • WLAN Security: OPEN, WEP, WPA/WPA 2 (Personal and Enterprise) <p>Bluetooth: Version 5.0 Bluetooth and BLE</p> <p>NFC: Standard in all models</p>	<p>WLAN: 802.11 a/b/g/n/ac/d/h/i/r/k/w; Wi-Fi Certified; IPv4, IPv6; Wi-Fi 2x2 MIMO</p> <p>Bluetooth: Version 5.0 Bluetooth and BLE</p> <p>NFC: Optional</p>	<p>NFC: <i>Standard</i> in all CK65 models; simplified hardware configuration</p>

KEY DIFFERENTIATORS

Why Choose the Honeywell CK65?

In addition to all the advantages of being on the Mobility Edge platform...

<p>Best-in-class ruggedness, yet lightweight and comfortable to carry and use for a full shift</p>	<p>Industry-leading battery life – up to 28 hours</p>
<ul style="list-style-type: none"> • Best drop rating in its class – longer life and less downtime • 3.0 m (10 ft) drops to concrete at room temperature • 2.4 m (8 ft) drops to concrete across temperature range • 2,000 1 m (3.3 ft) tumbles • IP65 / 68 rating against dust and rain • Overmolding for extra drop protection • Ergonomically balanced with or without scan handle – minimizes user fatigue 	<ul style="list-style-type: none"> • 10+ more hours of battery life than the Zebra MC3300 • 7,000 mAh battery can last up to 3 shifts of typical warehouse use • Hot-swappable battery; no need to reboot and lose an active session just to change the battery
<p>Longest mobile lifecycle in the industry</p>	<p>Proven Mobility Edge platform</p>
<ul style="list-style-type: none"> • With Mobility Edge, customers get support through Android R – a generation past competitive devices • Longest security lifecycle in the industry – we guarantee security updates beyond Google’s last patch 	<p>Helps give customers:</p> <ul style="list-style-type: none"> • Faster deployments • Better business results • Longer lifecycle • Stronger security
<p>Flexible scanner with best-in-class motion tolerance</p>	<p>True compatibility with CK3X/R accessories</p>
<ul style="list-style-type: none"> • 7th-generation, standard-range imager • 8th generation, FlexRange imager • Near-far imager scans up to 15.2 m (50 ft) away • 13 MP camera with flash <p>Client Pack and SmartTE Terminal Emulator included</p>	<ul style="list-style-type: none"> • CK65 is backwards compatible with CK3X/R accessories, so businesses can reduce costs by reusing those existing accessories and batteries • MC9300 is not truly backward compatible; only a very few legacy accessories can be used by ordering a cup

- All CK65 WLAN units will ship with Client Pack pre-loaded at no charge (includes first year maintenance)
- SmartTE is a full-featured TE that supports traditional green screens and converts to modern GUI

INDUSTRY ISSUE

Microsoft ended support for Windows CE 6.0. And will end support for Windows Embedded Handheld 6.5 in Jan 2020.

- More than 10 million legacy Windows devices in today’s warehouses
- Businesses need to make sure they have an upgrade strategy to ensure there are no security or productivity lapses
- Microsoft recommends iOS or Android devices as replacements, but has embraced **Android** as the mobile version of Windows with an Android launcher and upcoming app mirroring support

Honeywell has a solution to help make the transition easier.

The new Android-based CK65 rugged mobile computer is built on our Mobility Edge platform.

- A unified hardware and software platform for mobile computing
- CK65 has built-in keypad **and** touchscreen; use both newer touch-based and older key-based legacy applications – ideal for transitioning from Windows to Android
- Lower TCO for transitioning from Windows to Android
- Offers the longest security lifecycle in the industry, with support through Android R
- ← See also “Proven Mobility Edge Platform”

Industry studies show the average DC loses 3,000 hours in unproductive time every year

Solution: CK65 rugged mobile computer

- 10.2 cm (4 in) display, easy to read inside and out
- Touchscreen and keypad work with or without gloves; use both newer touch-based and older key-based legacy applications
- Helps automate arduous, repetitive tasks

OBJECTION HANDLING

<i>What about Zebra's Mobility DNA?</i>	Mobility DNA is a random collection of software that Zebra has rebranded. It's not actually a unified hardware platform like Mobility Edge that can simplify and accelerate your deployments. Plus, Mobility Edge also comes with lots of excellent apps optimized for our platform – and there are new tools being added to the Honeywell Marketplace all the time.
<i>We've used MC9x products in the past decade. Why move to the CK65?</i>	(See the Head to Head vs. MC9300 for details.) <ul style="list-style-type: none">• Mobility Edge platform provides a common HW/SW platform across multiple form factors with support through Android R (11); updates until 2028• More rugged; best drop spec to concrete across temperature range at 2.4 m (8 ft) and 3.0 m at room temperature• Lightweight, ergonomic, and balanced to minimize worker fatigue
<i>Zebra's 4850ER imager can go out to 70ft!</i>	<ul style="list-style-type: none">• Honeywell believes that the best way to support our customers is by delivering value, not playing spec games• Which has more value, instantaneous autofocus in a small, light, rugged package, or a 70ft use case that 99% of customers will never actually need?• You define what is relevant. In the absence of relevance, customers resort to what is easy to understand – price and numeric specs. Get out of the speeds and feeds and focus on what the product can DO
<i>It seems like Honeywell is behind in the Android migration.</i>	While Zebra has been pushing customers to move to Android for years, Honeywell kept Windows as an option to ease the transition. Now, Mobility Edge is the only mobile computing platform guaranteed to be compatible with updates through Android R (11) – and supported with patches all the way through 2028. Zebra and others will take a DIY approach to cover patches that far.
<i>We already invested in CK3X/R computers, batteries, and accessories.</i>	CK65 is backwards compatible with CK3X/R accessories, so your business can reduce costs by reusing those existing accessories and batteries.
<i>Zebra says they support through Android R</i>	Zebra's support past Q is via patches. Only Mobility Edge products have true support out to Android R.
<i>I'll have to migrate all my apps to Android</i>	Honeywell is partnered with BlueFletch to help with this transition. Free mobile strategy workshops are available, as well as options for an SOW and chunks of BlueFletch development time to transition the application.
<i>I don't need a 10 ft drop device</i>	Drop specs aren't about how high you expect to drop a device, they are a surrogate / proxy for overall ruggedness. The data on ruggedness is clear – higher ruggedness equates to lower failure rates which equates to lower TCO.

WHAT'S IN THE BOX

CK65 mobile computer, battery, stylus, and regulatory guide

SERVICES

- Free OS upgrades through Android R (11)
- Security patch support through 2028
- (Optional) 24x7x365 multi-lingual support
- In built SmartTE Software

SALES/REFERENCE MATERIALS

List marketing collateral (for internal Honeywell only):

- Data Sheet
- Accessories Guide
- Value Propositions
- Product Launch Notice
- Out of Box Experience Video
- Sales Reference Guide
- Customer/Partner Facing Document

Honeywell



	HONEYWELL CK65	Zebra MC3300	Zebra TC8000	Zebra MC9300
DIMENSION (mm)	227 x 83 x 36	202 x 75 x 35	233 x 76 x 64	231 x 88 x 189 (includes handle)
WEIGHT	490 g with extended battery	375 g with standard battery	490 g (standard), 500 g (premium)	765 g
CPU/MEMORY	SDM660, 4 GB DDR4/32 GB eMMC/SD slot	Qual 8056, 2 GB or 4 GB/16 GB; 4 GB/32 GB	APQ 8060 Dual Core 1.7 GHz	4 GB RAM/32 GB Flash pSLC
OPERATING SYSTEM	Android P, with upgrades to R (11)	Android N, with upgrades to Q	Android 5.1 (further upgrades are questionable)	Android O to 2 upgrades
SCAN ENGINE/ CAMERA	Honeywell N6703SR, Honeywell EX20 long range, Honeywell 6803FR FlexRange, 13 MP rear camera	SE965, SE4750, SE4850, 13 MP back premium only	Zebra SE965 laser, Zebra SE4750SR and MR, Zebra SE4850 Near Far	SE965, SE4750SR and 4750DP, 4850 Near Far, front and rear camera
BATTERY	7,000 mAh, hot swap	2,700 mAh and 5,200 mAh option, swap	6,700 mAh, swap	7,000 mAh
DISPLAY	4.0 in (480 x 800) OB Gorilla Glass 5	4.0 in capacitive, WVGA	4.0 in (800 x 480)	4.3 in (800 x 480)
KEYPAD	51 AlphaN, 38 Num+F, 32 Large Numeric	29 Num, 38 Num+F, 47 AlphaN	None	29, 34, 43, 53 and 58 key options
DROP AND TUMBLE	Drop: 2.4 m (8 ft) to concrete across temp, 3.0 m (10 ft) to concrete at room temp Tumble: 2,000 1.0 m (3.3 ft) tumbles per IEC 60068-2-32 specification	Drop: 1.5 m (4.9 ft) Tumble: 1,000 1.0 m (3.3 ft) tumbles	Drop: 2.4 m (8 ft) at room temp, 1.8 m (6 ft) at full temp Tumble: 2,000 1.0 m (3.3 ft) tumbles	Drop: 2.4 m (8 ft) at room temp, 1.8 m (6 ft) at full temp Tumble: 2,000 1.0 m tumbles
OPERATING TEMPERATURE	Standard Temp: -20°C to 50°C Cold Storage: -30°C to 50°C	-20°C to 50°C	-20°C to 50°C	-20°C to 50°C
SEALING	IP65/68	IP54	IP65	IP65/67
SENSORS	Ambient Light Sensor, Accelerometer, Gyroscope, Hall Effect	Accelerometer; Gyroscope	Ambient Light Sensor, Accelerometer, Gyroscope, Magnetometer, Proximity Sensor, various combinations are optional	Ambient Light Sensor
AUDIO	microphone, speaker	speaker	dual speakers	single speaker, single microphone
WIRELESS	WLAN – 802.11 a/b/g/n/ac/d/h/e/i/k/r/w, Wi-Fi 2x2 MIMO, WPAN – BT Dual 5.0 BLE, NFC	WLAN – 802.11 a/b/g/n/ac/d/h/i/k/r/w, Wi-Fi 2x2 MIMO, BT 4.1 and NFC	WLAN – 802.11 a/b/g/n/ac, BT 4.0 and NFC	WLAN – 802.11 a/b/g/n/ac/d/h/e/i/k/r/w, Wi-Fi 2x2 MIMO, WPAN – BT Dual 5.0 BLE, NFC