



ZEBRA

# MC40-HC Mobile Computer

## COOL STYLING — AND ALL THE FEATURES YOU NEED TO DELIVER THE HIGHEST QUALITY CARE

Improve patient safety, the patient experience and healthcare staff productivity with the fully-featured pocket-sized MC40-HC. Your patients chose you as their healthcare provider. In order to keep that patient, you need to deliver the very best in care. And delivering the best care possible requires healthcare staff to have right-now access to whatever information is required to not only take instant action — but to take the right action. The MC40-HC gives your healthcare staff everything needed to make the right decision in a split second, all in a device that rivals the design of today's coolest mobile devices, including smartphones. Your healthcare staff will instantly feel comfortable with the all-touch MC40-HC. With the familiar Android operating system, healthcare staff already know how to interact with the device, virtually eliminating training. It is just a little bigger than a smartphone, but still easily fits in a pocket, where it is always handy. But the similarities to consumer-style devices end there. Our Mobility Extensions (Mx) make Android a more robust enterprise-class operating system — critical in the healthcare environment. And with enterprise-class data capture, nurses and hospital staff can count on easy first time every time scanning of any barcode, ensuring accuracy in medication administration and specimen collection — where errors can have extreme consequences.



support time and maximizes worker productivity and device uptime by providing better control of your mobile devices, application access and Wi-Fi performance and security.

### Advanced Scanning Technology

Nurses and clinical staff can count on dependable scanning of any 1D or 2D barcode displayed on a computer screen or printed on paper — even if the codes are dirty, poorly printed or damaged. Omni-directional scanning delivers point-and-shoot simplicity — there is never a need to align the device and barcode. And the extra wide best-in-class working range and field of view make barcode capture easier than ever.

### A Powerful Voice Connection to Nearly Any Other Mobile Device in the Hospital

Zebra's complimentary Workforce Connect PTT Express client is pre-installed, giving your healthcare workers an instant connection to physicians, nurses, patient transport and other workers carrying PTT Express-enabled Zebra mobile computers, two-way radios and third party popular smartphones — right out of the box. And Workforce Connect Voice (optional) turns any MC40-HC into a mobile deskphone with robust PBX functionality.

### Rich Photographic Intelligence

The high-resolution 8 MP camera enables the capture of photos to document patient condition and highly legible documents, all with the quick press of a button.

### User Replaceable Battery for Guaranteed Availability All Shift, Every Shift

An average of up to 8 to 10 hours of operation on a single charge virtually eliminates downtime due to a dead battery during a shift; user-swappable batteries protect device uptime and increase device utilization for a stronger return on investment.

### FIPS 140-2 Certified

The MC40-HC is FIPS 140-2 validated and certified to keep patient data safe and secure — for data in motion and at rest. The MC40-HC also incorporates advanced software features to meet HIPAA, Veterans Administration and other healthcare security regulations.

### TAA Compliant

The MC40-HC is Trade Agreements Act (TAA) compliant.

### A Wealth of Battery Metrics For Easy Battery Management

With smart battery technology, you have the real-time intelligence you need to prevent unplanned device downtime due to a dead or unhealthy battery, protecting worker productivity. Technology inside Zebra's PowerPrecision batteries tracks and maintains the metrics required to provide more meaningful battery statistics including cumulative charge cycle count, battery age, time to empty and time to charge.

### Disinfectant-ready with Enterprise-class Durability

You get the durability that Zebra Technologies is famous for — the MC40-HC simply works, despite drops, bumps, spills and constant sanitizing.

### A Large 4.3 Inch Touch-only Display

Provides the screen real-estate to support information-intensive apps, such as electronic health records and real-time feeds of patient vital signs.



### Mx — Making Android a More Robust Enterprise OS

Every MC40-HC ships with Mobility Extensions (Mx), a series of features that make Android a more robust enterprise-class operating system. Mx minimizes IT


## THE MC40 — THE NEW FACE OF HEALTHCARE MOBILITY.

For more information about the MC40 Mobile Computer, visit [www.zebra.com/mc40hc](http://www.zebra.com/mc40hc) or access our global contact directory at [www.zebra.com/contact](http://www.zebra.com/contact)

# MC40-HC Specifications

<b>PHYSICAL CHARACTERISTICS</b>	
<b>Dimensions</b>	5.66 in. H x 2.87 in. W x 0.79 in. D 143.91 mm H x 72.8 mm W x 20.1 mm D
<b>Weight</b>	9.38 oz./266.1g (with battery)
<b>Display</b>	4.3 in. capacitive; 480 x 800; 300 NIT
<b>Touchpanel</b>	Capacitive dual-touch; Corning Gorilla Glass
<b>Backlight</b>	LED backlight
<b>Power</b>	 PowerPrecision 2680 mAh Li-Ion rechargeable battery
<b>Backup Battery<sup>1</sup></b>	NiMH battery (rechargeable) 15 mAh 3.6 V (not user accessible)
<b>Connectivity</b>	USB 2.0 OTG connector
<b>Notification</b>	LED, audio and vibration
<b>Keypad</b>	On-screen keypad
<b>Disinfectant Ready</b>	Yes
<b>PERFORMANCE CHARACTERISTICS</b>	
<b>CPU</b>	1 GHz OMAP 4 dual core processor
<b>OS</b>	 Android 5.1 Lollipop with Zebra's Mobility Extensions (Mx)
<b>Memory</b>	1 GB RAM/8 GB pSLC Flash
<b>USER ENVIRONMENT</b>	
<b>Operating Temp.</b>	0° C to 40° C / 32° F to 104° F
<b>Storage Temp.</b>	-40° C to 70° C / -40° F to 158° F
<b>Humidity</b>	5% to 85% RH non-condensing
<b>Drop Specification</b>	Multiple 4 ft./1.2 m drops per MIL-STD 810G; multiple 3 ft./0.9 m drops to tile
<b>Tumble Specification</b>	500 1.6 ft./0.5 m tumbles; meets and exceeds IEC tumble specifications
<b>Sealing</b>	IP54
<b>ESD</b>	± 15kVdc air discharge, ± 8kVdc direct discharge, ± 2kVdc indirect discharge
<b>Corning Gorilla Glass</b>	Touch panel; scanner exit window; camera exit window
<b>AUDIO</b>	
High-quality speakerphone, wireless (Bluetooth) headset support, PTT headset support, handset/speakerphone modes	
<b>INTERACTIVE SENSOR TECHNOLOGY (IST)</b>	
<b>Motion Sensor</b>	3-axis accelerometer provides motion-sensing for dynamic screen orientation and power management
<b>Light Sensor</b>	Automatically adjusts display backlight brightness
<b>Proximity Sensor</b>	Prevents unwanted key presses in handset mode


<b>DATA CAPTURE</b>	
<b>Imager</b>	SE4710
<b>Camera</b>	Rear-facing 8 MP auto-focus with aiming for barcode scanning and image capture.
<b>Data Types</b>	1D/2D barcodes, photographs, video, signatures, documents

<b>COMMUNICATION AND MESSAGING</b>	
	Workforce Connect PTT Express Client included for instant PTT calling right out of the box. Workforce Connect Voice Client Certified to enable PBX handset functionality and more inside the four walls. Supports Workforce Connect PTT Pro for more robust PTT functionality and Workforce Connect Messaging for text messaging over Wi-Fi and cellular networks. <sup>2,3</sup>

<b>WIRELESS LAN</b>	
<b>Radio</b>	Tri-mode IEEE® 802.11a/b/g/n/d/h/i/k/r <sup>4</sup>
<b>Security</b>	<i>Security Modes:</i> Legacy, WPA and WPA2 <i>Encryption:</i> WEP (40 and 128 bit), TKIP and AES <i>Authentication:</i> TLS, TTLS (MS-CHAP), TTLS (MS-CHAP v2), TTLS (PAP), PEAP (MS-CHAP v2), PEAP (GTC), FAST (MS-CHAP v2), FAST (GTC), LEAP <i>Data in Motion:</i> FIPS 140-2 Level 1 <i>Data at Rest:</i> FIPS 140-2 Level 1
<b>Data Rates</b>	802.11b: 1, 2, 5.5, 11 Mbps 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: 6.5, 13, 19.5, 26, 39, 52, 58.5, 65 Mbps 802.11n with SGI: 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2 Mbps
<b>Fast Roam</b>	PMKID Caching, Opportunistic Key Caching (OKC), Cisco CCKM, 802.11r, Zebra Aggregated FT <sup>5</sup>
<b>Certifications</b>	Wi-Fi, CCXv4
<b>Operating Channels</b>	Chan 36-165 (5180 – 5825 MHz), Chan 1-13 (2412 - 2472 MHz); actual operating channels/frequencies depend on regulatory rules and certification agency

<b>WIRELESS PAN</b>	
Bluetooth Class II, v 2.1 with EDR; Bluetooth 4.0 (Bluetooth Smart)	

### **ADDITIONAL MOBILITY DNA SOLUTIONS**

 Mobility DNA solutions help you get more value out of our mobile computers by adding functionality as well as simplifying deployment and management of our mobile devices. For more information on these Zebra-only features, please visit [www.zebra.com/mobilitydna](http://www.zebra.com/mobilitydna)



AppGallery



EMDK



Enterprise Browser



SwipeAssist



StageNow

Mobility DNA is available on Android only. Features may vary by model and a Support Contract may be required. To learn what solutions are supported, please visit: <https://developer.zebra.com/mobilitydna>

## MC40-HC Specifications (continued)

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### ACCESSORIES AND PERIPHERALS

Accessories include single\* and 5-slot\* charging cradles; single\* and 4-slot\* battery chargers; holster and a wearable carrying solution. BT connectivity to RS507 Ring Scanner. Visit [www.zebra.com/mc40](http://www.zebra.com/mc40) for a complete list of accessories.\* In patient-friendly color, Healthcare White.

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### WARRANTY

Subject to the terms of Zebra's hardware warranty statement, the MC40-HC is warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For the complete warranty statement, please visit: [www.zebra.com/warranty](http://www.zebra.com/warranty)

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### RECOMMENDED SERVICES

Zebra OneCare; Managed Device Services

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### CLEANING INSTRUCTIONS

#### Harmful Ingredients

The following chemicals at certain concentrations and/or combinations are known to damage the plastics on the MC40-HC mobile computers and should not come in contact with the device: acetone; ketones; ethers; aromatic and chlorinated hydrocarbons; aqueous or alcoholic alkaline solutions; ethanolamine; toluene; trichloroethylene; benzene; carbolic acid; TB-lysoform.

#### Cleaning Instructions

Follow the instructions of the cleaning agent manufacturer. Do not apply liquid directly to the MC40-HC mobile computers. Dampen a soft cloth or use pre-moistened wipes. Do not wrap the device in the cloth or wipe, but gently wipe the unit. Be careful not to let liquid pool around the display window or other places. Allow the unit to air dry before use.

#### Special Cleaning Notes

Many vinyl gloves contain phthalate additives, which are often not recommended for medical use and are known to be harmful to the housing of the MC40-HC mobile computers. The devices should not be handled while wearing vinyl gloves containing phthalates, or before hands are washed to remove contaminant residue after gloves are removed. If products containing any of the harmful ingredients listed above are used prior to handling the MC40-HC mobile computers, such as hand sanitizers that contain ethanolamine, hands must be completely dry before handling the devices to prevent damage to the plastics.

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### CLEANING INSTRUCTIONS (CONTINUED)

#### Approved Cleaning Products

The following products have been tested and approved for use with the MC40-HC. Please note that some of these products have chemicals listed as harmful, but the levels of concentration and combination with other chemicals for these listed products have shown to not cause an issue. Contact the service desk with any questions regarding approved cleaners and disinfectants for the MC40-HC terminal. The use of chemical agents not on the Approved Cleaning Products list may cause damage to the MC40-HC device.

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Clorox - Dispatch with Bleach

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Clorox Healthcare Bleach Germicidal Wipes

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Diversey - Dimension 256 Neutral Disinfectant Cleaner

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Diversey - Virex II 256

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Metrex - CaviWipes

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PDI Sani Cloth Plus

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PDI Sani-Hands

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PDI Super Sani Cloth Germicidal Wipes

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Sani Professional Sani-Wipes

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SC Johnson - Windex Original Glass Cleaner

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Steris - Coverage Plus Germicidal Surface Wipes

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The Clorox Company - 409 Glass and Surface Cleaner

1. Refer to the User Manual for charging recommendations.
2. Zebra Technologies Solutions devices require the complimentary Push-to-Talk Express client from Zebra; third party mobile devices require Zebra's Unified Retail Communications client; two-way radios require Zebra's Radio Link server.
3. Voice client supported in North America.
4. 802.11k not supported on Android Jelly Bean.
5. Zebra Aggregated FT not supported on Android Jelly Bean.

Specifications subject to change without notice.



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