Zebra® MC40-HC

Mobile Computer

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) infuse Android with the enterprise-class features required in the critical environment of healthcare — robust Wi-Fi connections that keep staff connected via voice and to real-time data; security features that protect data and help meet HIPAA requirements and complete remote control over devices as well as their applications. And with enterprise-class data capture, nurses and lab technicians can count on easy first time every time scanning of any bar code, ensuring accuracy in medication administration and specimen collection — where errors can have extreme consequences.

THE MC40-HC — THE NEW FACE OF HEALTHCARE MOBILITY.

For more information, visit www.Zebra.com/mc40HC or access our global contact directory at www.zebra.com/contact

The New Face of Healthcare Mobility.

Cool styling — and all the features you need to deliver the highest quality care.

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. And Gorilla Glass improves the durability of three of the most vulnerable features — the display and the scanner and camera exit windows.

ADVANCED SCANNING TECHNOLOGY

Nurses and clinical staff can count on dependable scanning of any 1D or 2D bar code 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 bar code. And the extra wide best-in-class working range and field of view make bar code capture easier than ever.

A LARGE 4.3 INCH TOUCH DISPLAY

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

ANDROID FORTIFIED FOR THE ENTERPRISE

Mx adds new features that transform Android from a consumer operating system (OS) to a true enterprise-class operating system, adding the enterprise-class security, manageability, wireless connection quality and data capture feature support your organization requires.

A POWERFUL VOICE CONNECTION TO NEARLY ANY OTHER MOBILE DEVICE IN THE HOSPITAL

With our unique integrated voice solutions, the MC40-HC is push-to-talk (PTT) ready right out of the box, easily connecting to other PTT-enabled Zebra mobile computers, two-way radios and third party popular smartphones. And Workforce Connect Voice^ turns any MC40-HC into a mobile deskphone with robust PBX functionality.

^ Workforce Connect Voice is only available in some regions.

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.

RICH PHOTOGRAPHIC INTELLIGENCE

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

MOBILITY DNA

Every strand of your mobility platform is simpler with Zebra's Mobility DNA. That's because, from the start, you have the industry's most comprehensive suite of mobility must-haves to accelerate your solution. More off-the shelf end-user apps, more robust administration utilities and easier app development. Additional Mobility DNA solutions in the MC40 include:

- Simulscan
- StageNow
- EMDK
- AppGallery
- SwipeAssist
- Enterprise Browser
- ShareCradle
- TekSpeech® Pro
- All-touch Terminal Emulation

CLEANING INSTRUCTIONS

Recommended Cleanser Active Ingredients

100% of the active ingredients in a cleaning solution should consist of one of the following: isopropyl alcohol; bleach/sodium hypochlorite; hydrogen peroxide; mild dish soap.

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: ammonia solutions, compounds of amines or ammonia; acetone; ketones; ethers; aromatic and chlorinated hydrocarbons; aqueous or alcoholic alkaline solutions; ethanolamine; toluene; trichloroethylene; benzene; carbolic acid; TB-lysoform.

Cleaning Instructions

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.

Approved Cleaning Products

Due to the requirements of many use cases, the following products have been tested and approved for use with the MC40-HC: PDI Super Sani-Wipes, PDI Sani-Cloth Plus, Metrex Caviwipes, and Clorox Dispatch with Bleach. Please note that some of these products have chemicals listed above 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.

Specifications Chart*

PRODUCT NAME	
MC40-HC	

PHYSICAL CHARACTERISTICS	
Dimensions	5.66 (H) x 2.87 (W) x 0.79 (D) ”/ 143.91 (H) x 72.8 (W) x 20.1 (D) cm
Weight	9.38 oz./ 266.1g (with battery)
Display	• 4.3” capacitive • 480 x 800; 300 NIT • Corning Gorilla Glass 3
Touchpanel	Capacitive dual-touch
Backlight	LED backlight
Power	PowerPrecision 2680mAh Li-Ion rechargeable battery
Backup Battery²	• NiMH battery (rechargeable) • 15mAh 3.6V (not user accessible)
Connectivity	USB 2.0 OTG connector
Notification	LED, audio and vibration
Keypad	On-screen keypad
Disinfectant Ready	Yes

PERFORMANCE CHARACTERISTICS	
CPU	800MHz OMAP 4 dual-core processor³
Operating System	Android 4.4.4 (KitKat) **Mobility Extensions (Mx)** adds a layer of features that turns Android into a true enterprise-class OS.
Memory	1GB RAM/ 8GB Flash

USER ENVIRONMENT	
Operating Temperature	32~104˚F/ 0~40˚C
Storage Temperature	-40~158˚F/ -40~70˚C
Humidity	5%~85% RH non-condensing
Drop Specification	• Multiple 4’/ 1.2m drops per MIL-STD 810G • Multiple 3’/ 0.9m drops to tile
Tumble Specification	500 (1.6’/ 0.5m) tumbles; meets and exceeds IEC tumble specifications
Sealing	IP54
ESD	• ± 15kVdc air discharge • ± 8kVdc direct discharge • ± 2kVdc indirect discharge
Corning Gorilla Glass 3	Touchpanel; scanner exit window and camera exit window

INTERACTIVE SENSOR TECHNOLOGY (IST)	
Motion Sensor	3-axis accelerometer provides motion-sensing for dynamic screen orientation and power management
Light Sensor	Automatically adjusts display backlight brightness
Proximity Sensor	Prevents unwanted keypresses in handset mode

AUDIO
• High-quality speakerphone • Wireless (Bluetooth) headset support • PTT headset support • Handset/ speakerphone modes

DATA CAPTURE	
Imager	SE4710
Camera	Rear-facing 8 MP auto-focus with aiming for bar code scanning and image capture.
Data Types	• 1D/2D bar codes • Photographs • Video • Signatures • Documents

COMMUNICATION AND MESSAGING
Workforce Connect PTT Express Client included for instant PTT calling right out of the box.⁴ **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.

PERIPHERALS AND ACCESSORIES
• 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 for a complete list of accessories. ^ In patient-friendly color, Healthcare White.

WIRELESS LAN	
Radio	Tri-mode IEEE® 802.11a/b/g/n/d/h/i/k/r
Security	• Security Modes: Legacy, WPA and WPA2 • Encryption: WEP (40 and 128 bit), TKIP and AES • Authentication: TLS, TTLS (MS-CHAP), TTLS (MS-CHAP v2), TTLS (PAP), PEAP (MS-CHAP v2), PEAP (GTC), FAST (MS-CHAP v2), FAST (GTC), LEAP. Data in motion: FIPS 140-2 Level 1 Data at Rest: FIPS 140-2 Level 1
Data Rates	• 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
Fast Roam	Pre-Authentication, PMKID Caching, Opportunistic Key Caching (OKC), Cisco CCKM, Zebra HFSR, 802.11r
Certifications	Wi-Fi, CCXv4
Operating Channels	Chan 36~165 (5180~5825MHz), Chan 1~13 (2412~2472MHz); actual operating channels/frequencies depend on regulatory rules and certification agency

WIRELESS PAN
• Bluetooth Class II, v 2.1 with EDR; integrated antenna • Bluetooth 4.0 (Bluetooth Smart)

REGULATORY
Visit www.zebra.com/mc40hc for regulatory information

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 complete warranty statement, please visit: http://www.zebra.com/warranty

RECOMMENDED SERVICES
Zebra *OneCare*

ZEBRA

¹ Zebra Technologies mobile computers 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. ² Refer to the User Manual for charging recommendation. ³ Maximum processor clock speed running Android KitKat is 1 GHz. ⁴ Voice client supported in North America. Note: Product photography not representative of the recent change to a gasket-free MC40-HC design. *Specifications subject to change without notice. ©2015 ZIH Corp. Zebra, the Zebra head graphic and Zebra Technologies logo are trademarks of ZIH Corp, registered in many jurisdictions worldwide. MC40-HC and all product names and numbers are Zebra trademarks. All rights reserved. All other trademarks are the property of their respective owners. 10/2015 (AP)