

# MC55X SERIES

## RUGGED WI-FI ENTERPRISE MOBILE COMPUTER FOR MANAGERS AND TASK WORKERS

With the MC55X Series, managers and task workers who spend their days inside your company walls have everything they need to take instant action, anywhere in your facility — indoors and outside. When it comes to meeting the needs of your workforce, the MC55X excels, offering the right level of features, the right level of rugged design and support for the most demanding business applications. The result? Workers in retail, hospitality, manufacturing, healthcare and government agencies can complete more tasks more accurately in less time, improving productivity and customer care. And with healthcare friendly colors, MC55x-HC brings mobility to point-of-care applications, helping nurses and other caregivers eliminate errors at the patient bedside to improve the quality of care — and the patient experience.



### Pure Business on the Inside — Smart Styling on the Outside

The MC55X Series is the perfect blend of form and function. The comprehensive capabilities allow workers to scan bar codes; snap pictures; view videos; access business applications, the Internet and email as well as make and receive private and push-to-talk voice calls. The compact and lightweight mobile computer is easy to carry and easy to use, with a sleek design that is equally at home in front of customers and patients.

### The Most Rugged Design in this Class — Period

The MC55X Series is built to last, giving workers a device they can count on and businesses a maximum return on investment (ROI). This rugged device family is built for use inside your buildings as well as outdoor areas of your facilities — and our toughness tests prove it. The MC55X delivers outstanding performance, even after exposure to heat, cold, dust, water — and 1,000 consecutive tumbles in our rotating tumble drum. And all models can be sanitized with many common cleaners without harming the housing or the sensitive electronics, helping prevent the spread of bacteria to patients and caregivers in a hospital as well as shift workers in other industries where devices are shared.

### Capture the Data you Need — When and Where You Need It

With our advanced scanning technology and PRZM Intelligent Imaging, your workers get lightning fast capture of 1D and 2D barcodes, even if they are damaged, dirty and poorly printed — or displayed on a screen. An extraordinary working range plus a wide field of view increases application flexibility — workers can scan barcodes nearer and farther away. And omnidirectional scanning delivers true point and shoot — there is no need to ever align barcode and scanner. And if you need to capture photos, videos, or documents in addition to bar codes, no problem — just add our high-resolution 8 MP autofocus color camera.

### Protect your Data with Government-Grade Security

Wireless solutions create an instant concern for businesses and government agencies — data security. In addition to standard support for all the latest wireless authentication and encryption protocols and Zebra's tested and certified Virtual Private Networks (VPNs), the MC55X adds native FIPS 140-2 Level 1 certification, bringing government grade security to businesses and government agencies alike. Unlike many other mobile computers, our security features protect your data and productivity, without impacting performance.

**EMPOWER YOUR INDOOR WORKFORCE TO GET MORE DONE IN A DAY  
WITH THE MC55X SERIES.**

For more information, visit [www.zebra.com/mc55x](http://www.zebra.com/mc55x) or access our  
global contact directory at [www.zebra.com/contact](http://www.zebra.com/contact)

### **The Intelligence to Sense And Act on the Environment**

Get real value with our business-class implementation of the accelerometer. We start with the typical ability to automatically switch the display between portrait and landscape modes based on device orientation, and build from there. Right out of the box, you can get the power saving functionality that helps ensure full shift operation on a single battery charge. With just a few clicks, you can configure the device to enter sleep mode if movement is not detected in a specified period of time, or if the display is face down. In addition, the MC55X automatically detects and logs drops, helping to increase worker accountability for device condition. And the open architecture allows enterprises to integrate the accelerometer data into customized applications to improve the safety of technicians working in remote areas of your facility — and prevent device theft.

### **Unparalleled Voice Functionality and Quality**


Unlike many mobile computers, the MC55X is designed from the ground up to enable voice as well as data over your WLAN. The result is a superior user experience, highly cost-effective voice communications and a broad voice feature set. Start with the ability to turn the MC55X into a mobile version of your deskphones. Then add a push-to-talk connection to practically any other Zebra mobile device, including other mobile computers, EAM smartphones and even two-way radios on completely different networks. This powerful combination allows workers to place one-to-one calls in sensitive environments, such as healthcare, while retail and other managers can easily reach an entire workgroup at the press of a button — eliminating intrusive overhead paging systems that affect the customer experience. Handset and speakerphone modes allow workers to choose privacy or hands-free convenience, meeting the needs of the job...and the moment. And since voice and data services are delivered over the WLAN, in-building cellular coverage issues that can affect voice quality are eliminated.

### **The Zebra Advantage: World Class Partners Support**

When you choose Zebra, our award-winning partner channel provides access to a best-in-class, broad set of ready-to-go and custom applications in your industry, minimizing deployment time and cost. No matter what help your business might need, we have a service that delivers. If you are implementing your first mobility solution, we can provide assistance at every stage — from planning and assessment through design, deployment and ongoing management and support. If you are adding new applications, we can help you identify whether your present wireless LAN can handle the increased load — as well as any other gaps that need to be addressed to ensure smooth deployment. Since even the most rugged devices require a support plan, Zebra OneCare™ Service will keep your devices up and running at peak performance. This unique service covers normal wear and tear as well as internal and external components damaged through accidental breakage, significantly reducing unforeseen repair expenses.



# MC55X Series Specifications

| <b>PHYSICAL CHARACTERISTICS</b>      |                                                                                                                                                                                      |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dimensions</b>                    | With rechargeable 3600 mAh Lithium Ion battery:<br>5.86 in.(H) X 3.07 in. (W) X 1.45 in. (D)<br>149 mm (H) X 78 mm (W) X 37 mm (D)                                                   |
| <b>Weight</b>                        | 11.9 oz./365 g (with rechargeable 3600 mAh Lithium Ion battery)                                                                                                                      |
| <b>Display</b>                       | 3.5 in Color VGA, super bright 900 NITS                                                                                                                                              |
| <b>Touch Panel</b>                   | Glass analog resistive touch                                                                                                                                                         |
| <b>Display Backlight</b>             | LED backlight                                                                                                                                                                        |
| <b>Standard Battery</b>              |  PowerPrecision 3.7V, 3600 mAh Li-Ion rechargeable battery                                          |
| <b>Backup Battery</b>                | Ni-MH battery (rechargeable) 15 mAh 3.6V nominal (not user-accessible or replaceable)                                                                                                |
| <b>Expansion Slot</b>                | microSD slot (maximum 32GB)                                                                                                                                                          |
| <b>Comm. Interface</b>               | USB 2.0 high speed (host and client)                                                                                                                                                 |
| <b>Notification</b>                  | Audible tone plus multi-color LEDs, Vibrate                                                                                                                                          |
| <b>Keypad Options</b>                | Numeric, QWERTY                                                                                                                                                                      |
| <b>Voice and Audio</b>               | Speaker, microphone, receiver (for handset mode use) and Bluetooth audio headsets                                                                                                    |
| <b>PERFORMANCE CHARACTERISTICS</b>   |                                                                                                                                                                                      |
| <b>CPU</b>                           | Dual core 800 MHz OMAP 4 processor                                                                                                                                                   |
| <b>Operating System</b>              | Microsoft® Windows Embedded Handheld 6.5 Classic                                                                                                                                     |
| <b>Memory</b>                        | 512 MB RAM/2 GB Flash                                                                                                                                                                |
| <b>USER ENVIRONMENT</b>              |                                                                                                                                                                                      |
| <b>Operating Temp.</b>               | 14° F to 122° F/-10° C to 50° C                                                                                                                                                      |
| <b>Storage Temp.</b>                 | -40° F to 158° F/-40° C to 70° C                                                                                                                                                     |
| <b>Humidity</b>                      | 95% non-condensing                                                                                                                                                                   |
| <b>Drop Specification</b>            | Multiple 6 ft./1.8 m drops per MIL-STD 810G specifications                                                                                                                           |
| <b>Tumble Specification</b>          | 1,000 1.6ft/0.5m tumbles, meets or exceeds IEC tumble specification                                                                                                                  |
| <b>Sealing</b>                       | IP64 per IEC sealing specifications                                                                                                                                                  |
| <b>Clock</b>                         | Integrated real time clock                                                                                                                                                           |
| <b>Electrostatic Discharge (ESD)</b> | ± 15kv Air discharge, ± 8kv direct discharge, ± 8kv indirect discharge                                                                                                               |
| <b>BATTERY PERFORMANCE</b>           |                                                                                                                                                                                      |
| <b>User Profiles</b>                 | Minimally 8 hours based on 600 scans and WLAN transmits per hour with display on and standard capacity battery                                                                       |
| <b>Motion Sensor</b>                 | 3-axis accelerometer for dynamic screen orientation                                                                                                                                  |
| <b>DATA CAPTURE</b>                  |                                                                                                                                                                                      |
| <b>Scanning</b>                      | SE4710 imager (1D and 2D) with extraordinary range:<br>Scan range – Code 39 barcode:<br>20 Mil: 1.8 in. to 32.0 in./4.5 cm to 81.3 cm<br>3 Mil: 3.1 in. to 5.6 in./7.9 cm to 14.2 cm |

| <b>COLOR CAMERA</b>                               |                                                                                                                                                                                         |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Resolution</b>                                 | 8 megapixel                                                                                                                                                                             |
| <b>Illumination</b>                               | User controllable flash                                                                                                                                                                 |
| <b>Lens</b>                                       | Auto focus                                                                                                                                                                              |
| <b>WIRELESS LAN VOICE AND DATA COMMUNICATIONS</b> |                                                                                                                                                                                         |
| <b>Radio</b>                                      | Quad-mode IEEE® 802.11a/b/g/n                                                                                                                                                           |
| <b>Security</b>                                   | WPA2, WEP (40 or 128 bit), TKIP, TLS, TTLS (MS-CHAP), TTLS (MS-CHAP v2), TTLS (CHAP), TTLS-MD5, TTLS-PAP, PEAP-TLS, PEAP (MS-CHAP v2), AES, LEAP, CCXv4 certified; FIPS 140-2 certified |
| <b>Antenna</b>                                    | Internal (Primary and Diversity)                                                                                                                                                        |
| <b>Data Rates Supported</b>                       | 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps                                                                                                                                     |
| <b>Operating Channels</b>                         | Chan 8-165 (5040 – 5825 MHz), Chan 1-13 (2412-2472 MHz), Actual operating channels/frequencies depend on regulatory rules and certification agency                                      |
| <b>Voice Communication</b>                        | Wi-Fi certified, IEEE 802.11a/b/g/n direct sequence wireless LAN, Wi-Fi Multimedia™ (WMM), Zebra Voice Quality Manager (VQM)                                                            |
| <b>WIRELESS PAN DATA</b>                          |                                                                                                                                                                                         |
| <b>Bluetooth</b>                                  | Class II, v 2.1 Enhanced Data Rate (EDR); integrated antenna                                                                                                                            |
| <b>REGULATORY</b>                                 |                                                                                                                                                                                         |
| <b>Electrical Safety</b>                          | Certified to UL/cUL 60950-1, IEC/EN60950-1                                                                                                                                              |
| <b>WLAN and Bluetooth (PAN)</b>                   | USA: FCC Part 15.247, 15.407<br>Canada: RSS-247<br>EU: EN 300 328, EN 301 893<br>Australia: AS/NZS 4268                                                                                 |
| <b>RF Exposure</b>                                | USA: FCC 47CFR Part 2.1093<br>Canada: RSS-102<br>EU: EN 50360, EN 50566, EN 62311<br>Australia: Radiocommunications (Electromagnetic Radiation-Human Exposure) Standards: 2014          |
| <b>EMI/RFI</b>                                    | North America: FCC Part 15, Class B<br>Canada: ICES 003 Class B<br>EU: EN 301 489-1, EN 301 489-17, EN 60601-1-2, EN 55024, EN 55032 Class B, EN 50121-3-2, EN 50121-4                  |
| <b>Laser Safety</b>                               | IEC 62471                                                                                                                                                                               |

*Continued on next page*

## MC55X Series Specifications (continued)

### CLEANING INSTRUCTIONS

The following products have been tested and approved for use with the MC55x.

- Caviwipe
- Ethanol 80%
- Isopropyl alcohol 90%
- Mild dish soap
- Super Sani-Cloth® Wipes
- Virex® II 256
- Windex® Multi-Surface Disinfectant

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 MC55x terminal. The use of chemical agents not on the Approved Cleaning Products list may cause damage to the MC55x device.

#### Harmful Ingredients:

The following chemicals are known to damage the plastics on the MC55X Series 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 MC55X Series. 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 MC55X Series. The mobile computers 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 MC55X Series, such as hand sanitizers that contain ethanolamine, hands must be completely dry before handling the MC55X Series to prevent damage to the plastics.

### WARRANTY

The MC55X Series is warranted against defects in workmanship and materials for a period of 12 months from date of shipment, provided that the product from date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions. For complete warranty statement, please visit: <http://www.zebra.com/warranty>

### RECOMMENDED SERVICES

Zebra OneCare Service

Specifications subject to change without notice and some features may vary by model.

MSC Computer Vertriebs-Gesellschaft mbH  
Lötsch 39  
41334 Nettetal  
Deutschland  
Telefon: 02153 - 95200  
Email: [info@msc-computer.de](mailto:info@msc-computer.de)  
URL: [www.msc-computer.de](http://www.msc-computer.de)



NA and Corporate Headquarters  
+1 800 423 0442  
[inquiry4@zebra.com](mailto:inquiry4@zebra.com)

Asia-Pacific Headquarters  
+65 6858 0722  
[contact.apac@zebra.com](mailto:contact.apac@zebra.com)

EMEA Headquarters  
[zebra.com/locations](http://zebra.com/locations)  
[contact.emea@zebra.com](mailto:contact.emea@zebra.com)

Latin America Headquarters  
+1 847 955 2283  
[la.contactme@zebra.com](mailto:la.contactme@zebra.com)