



# THE ZEBRA MC55N0 SERIES

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

### DRIVE PRODUCTIVITY AND EFFICIENCY INSIDE THE ENTERPRISE TO A NEW LEVEL

With the MC55N0 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 MC55N0 excels, offering organizations in the U.S. and Europe 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.

### THE MOST RUGGED DESIGN YET IN THIS CLASS — PERIOD

The MC55N0 Series is built to last, giving workers a device they can count on and businesses a maximum return on investment (ROI). This rugged device is built for use inside your buildings as well as outdoor areas of your facilities — and our toughness tests prove it. The MC55N0 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 when devices are shared.

### PURE BUSINESS ON THE INSIDE — SMART STYLING ON THE OUTSIDE

The MC55N0 Series is the perfect blend of form and function. The comprehensive capabilities allow workers to scan bar codes; snap pictures; view videos and access business critical applications. The compact and lightweight mobile computer is easy to carry and easy to use, with a sleek design that is at home in front of customers.

### THE POWER TO HANDLE VIRTUALLY ANY APPLICATION

Give your workers the best in class mobile application performance, even for the most demanding multimedia applications. Packed with the latest in technology, our powerful platform offers the most current mobile operating system for the enterprise, as well as the fastest processor and largest memory footprint in this device class. And the 802.11n radio substantially increases wireless bandwidth — so you can count on your wireless applications to perform just as well as applications running on a wired desktop computer.

### CAPTURE THE DATA YOU NEED — WHEN AND WHERE YOU NEED IT

Three scanner options let you pick the model that will deliver the best performance for your organization. Our SE960 1D laser scan engine provides best-in-class performance for 1D bar codes, including near contact to medium range decoding of even the widest bar code. And the two variants of our revolutionary SE4500 2D imager deliver true laser-like performance and omnidirectional scanning of both 1D and 2D bar codes. The SE4500-SR offers the best range on medium and low density 1D and 2D bar codes. The SE4500-DL is optimized for medium to high density bar codes in addition to the bar codes found on driver's licenses and other identification documents — ideal for border crossings as well as the healthcare and electronics industry. And if you need to capture photos, videos, or documents in addition to bar codes, no problem — just add our high-resolution 3.2 MP autofocus color camera.

## 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 MC55N0 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.

## 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, Service from the Start with Comprehensive Coverage will keep your devices up and running at peak performance. This unique all-inclusive service covers normal wear and tear as well as internal and external components damaged through accidental breakage, significantly reducing unforeseen repair expenses.

## EMPOWER YOUR INDOOR WORKFORCE TO GET MORE DONE IN A DAY — WITH THE ZEBRA MC55N0 SERIES

To find out how, visit [www.zebra.com/mc55N0](http://www.zebra.com/mc55N0) or access our global contacts directory at [www.zebra.com/contact](http://www.zebra.com/contact)

### SPECIFICATIONS CHART AVAILABLE IN U.S. AND EUROPE

PHYSICAL CHARACTERISTICS		COLOR CAMERA	
Dimensions	With rechargeable 2400 mAh Lithium Ion battery: 5.78 in. L x 3.03 in. W x 1.06 in. D 147 mm L x 77 mm W x 27 mm D	Resolution	3.2 megapixel
		Illumination	User controllable flash
		Lens	Auto focus
Weight	11.1 oz./315 g (with rechargeable 2400 mAh Lithium Ion battery)	<b>1D LASER SCANNER (SE960)</b>	
Display	3.5 in Color VGA, super bright 900 NITS		
Touch Panel	Glass analog resistive touch		
Display Backlight	LED backlight		
Standard Battery	Rechargeable Lithium Ion 3.7V, 2400 mAh Smart Battery		
Extended Battery	Rechargeable Lithium Ion 3.7V, 3600 mAh Smart Battery		
Backup Battery	Ni-MH battery (rechargeable) 18mAh 2.4V (not user accessible)		
Expansion Slot	microSD slot (maximum 32GB)		
Comm. Interface	USB 1.1 Host and Client		
Notification	Audible tone plus multi-color LEDs, Vibrate		
		Scan Rate	104 (± 12) scans/sec (bidirectional)

Keypad Options	Numeric, QWERTY, AZERTY and QWERTZ	Scan Angle (typical) *	Wide: (Default) 47°; Medium: 35°; Narrow: 10°
Audio	Speaker, microphone, receiver (for handset mode use) and Bluetooth audio headsets	<b>2D IMAGER ENGINE (SE4500-SR AND SE4500-DL)</b>	
<b>PERFORMANCE CHARACTERISTICS</b>		Sensor Resolution	752 H x 480 V pixels (gray scale)
CPU	Marvell™ PXA 320 @ 806 MHz processor	Roll	360°
Operating System	Microsoft® Windows Mobile® 6.5 Classic	Pitch Angle	± 60° from normal
Memory	256 MB RAM/1 GB Flash	Skew Tolerance	± 60° from normal
<b>USER ENVIRONMENT</b>		Ambient Light	Total darkness to 9,000 ft. candles/96,900 lux
Operating Temp.	14° F to 122° F/-10° C to 50° C	Aiming Element ( VLD)	655 nm ± 10 nm
Storage Temp.	-40° F to 158° F/-40° C to 70° C	Illumination Element	625 nm ± 5 nm
Humidity	95% non-condensing	Field of View	Horizontal: 40°; Vertical: 25°
Drop Spec	Multiple 6 ft./1.8 m drops per MIL-STD 810G specifications	<b>Ranges</b>	
Tumble Spec	1000 1.6 ft./0.5 m tumbles ( equivalent to 2,000 hits) per IEC tumble specifications	<b>SR Focus Range</b>	
Sealing	IP64 per IEC sealing specifications	5 mil Code 39:	Near: 2.1 in./53 mm Far: 7.5 in./191 mm
Clock	Integrated real time clock	100% UPC/EAN:	Near: 1.6 in./41 mm Far: 15.5 in./394 mm
Electrostatic Discharge (ESD)	15KV Air 8KV Touch	6.7 mil PDF417:	Near: 3.4 in./86 mm Far: 7.1 in./180 mm
<b>WIRELESS LAN VOICE AND DATA COMMUNICATIONS</b>		<b>DL Focus Range</b>	
Radio	Quad-mode IEEE® 802.11a/b/g/n	5 mil Code 39:	Near: 1.4 in./36 mm Far: 7.3 in./185 mm
Security	Legacy, WPA and WPA2 WEP (40 or 104 bit), TKIP and AES TLS, TTLS (MS-CHAP), TTLS ( MS-CHAP v2), TTLS (CHAP), TTLS (MD5), TTLS (PAP), PEAP-TLS, PEAP (MSCHAP v2), PEAP (EAP-GTC), EAP-FAST-TLS , EAP-FAST (MS-CHAP v2), EAP-FAST ( EAP-GTC) and LEAP	100% UPC/EAN:	Near: 1.6 in./41 mm Far: 12 in./305 mm
Antenna	Internal	5 mil PDF417:	Near: 2.8 in./71 mm Far: 4.5 in./114 mm
Data Rates Supported	802.11b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48 and 54 Mbps 802.11n: MCS0 to MSC7 up to 72.2 Mbps	<b>BATTERY PERFORMANCE</b>	
Operating Channels	Chan 36-165 (5180 – 5825 MHz), Chan 1-13 (2412-2472 MHz)	User Profiles	Minimally 8 hours based on 600 scans and WLAN transmits per hour with display on and standard capacity battery
		<b>DATA CAPTURE OPTIONS</b>	
		Options	Multiple configurations available: 1D SE960 laser scanner; 2D SE4500-SR imager; 2D SE4500-DL imager; 3.2 megapixel color camera option available
		<b>PERIPHERALS AND ACCESSORIES*</b>	
		Communication and Battery Chargers/	Charge only cable; auto charge cable; USB charge/sync cable; 4

WIRELESS PAN DATA	
Bluetooth	Class II, v 2.1 Enhanced Data Rate (EDR); integrated antenna

CLEANING INSTRUCTIONS	
Approved Cleanser Active Ingredients:	100% of the active ingredients in any cleaner must consist of one or some combination of the following: isopropyl alcohol; bleach/sodium hypochlorite; hydrogen peroxide; mild dish soap
Harmful Ingredients:	The following chemicals are known to damage the plastics on the MC55N0 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; carboric acid and TB-lysoform.

Cleaning Instructions:	Do not apply liquid directly to the MC55N0 Series. Dampen a soft cloth or use premoistened 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.
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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 MC55N0 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 MC55N0 Series, such as hand sanitizers that contain ethanolamine, hands must be completely dry before handling the MC55N0 Series to prevent damage to the plastics.
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Cradles	slot battery charger toaster; 4-slot Ethernet cradle; 4-slot charge only cradle; single slot USB cradle; vehicle holder using auto charge cable; vehicle cradle with charging capabilities
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Vertical Specific Attachments	Snap-on magnetic stripe reader (MSR); snap-on trigger handle
Soft Goods	Rigid and soft case holsters, Bluetooth headsets
* Visit <a href="http://www.zeba.com/mc55n0">www.zeba.com/mc55n0</a> for a complete list of available peripherals and accessories	

REGULATORY	
Electrical Safety	Certified to UL 60950-1, second edition, CAN/CSA-C22.2 No. 60950-1-07, IEC 60950-1 Edition 2.0 2005-12, EN 60950-1:2006 + A11:2009
Environmental	RoHS-compliant
WLAN and Bluetooth (PAN)	<b>USA:</b> FCC Part 15.247, 15.407 <b>EU:</b> EN 300 328, EN 301 893
RF Exposure	<b>USA:</b> FCC Part 2, FCC OET Bulletin 65 Supplement C <b>EU:</b> EN 50360: 2001 (Max average 10g SAR 0.472 W/Kg), EN 62311: 2008, EN 62209-1:2006, EN62209 -2:2010, EN62479:2010
EMI/RFI	<b>USA:</b> FCC Part 15, Class B <b>EU:</b> EN55022 Class B, EN 55024: 1998 + A1: 2001 + A2: 2003, EN 61000-3-2: 2006 (Class B), EN 61000-3-3: 2008, EN 50121-3-2: 2006, EN 50121-4: 2006, EN 301 489-1, EN 301 489-17, EN 60601-1-2, IEC 60601-1-2: 2007, (Modified)
Laser Safety	IEC/Class 2/FDA II in accordance with IEC60825-1: (Ed 2.0)/EN 60825-1:2007

WARRANTY	
The MC55N0 Series is warranted against defects in workmanship and materials for a period of 12 months from date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions	

RECOMMENDED SERVICES	
Customer Services: Managed Device Service Support; Service from the Start with Comprehensive Coverage	



**ZEBRA**

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