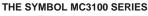
### PRODUCT SPEC SHEET





# **THE SYMBOL MC3100 SERIES**

### STREAMLINE BUSINESS PROCESSES WITH COST-EFFICIENT RUGGED MOBILITY

Building on the successful MC3000 mobile computer, the rugged wireless MC3100 Series brings cost-effective anytime mobility to key-based applications within the four walls ' in the retail store and warehouse aisles, on the loading dock and out in the yard. Leveraging Zebra's new Mobility Platform Architecture 2.0, the MC3100 offers advanced computing power, industry-leading data capture capabilities and superior ergonomics. In addition to the processing power and memory required to support advanced applications, the MC3100 also offers the latest in mobile technology and security. An integrated RFID tag automates asset tracking, allowing enterprises to track and locate MC3100 devices right out the box. Zebra's Interactive Sensor Technology (IST) provides an integrated accelerometer that enables leading edge motion-based applications that improve power management and more. Robust security features include FIPS 140-2 certification, protecting the most sensitive data. Compatibility with the existing MC3000 accessories ecosystem enables organizations to upgrade to the latest in technology, while preserving the existing accessory investment. The result is a robust affordable device that will help retailers, government agencies and distribution centers streamline and error-proof business processes, improving employee productivity as well as customer service and satisfaction.

### ZEBRA MAX RUGGED ' REDEFINING INDUSTRIAL RUGGED DESIGN

The MC3100 is purpose-built for demanding environments within the enterprise walls. The superior rugged specifications dramatically reduce repair and downtime, delivering an exceptional return on investment (ROI ) and total cost of ownership (TCO). Designed to easily handle the inevitable everyday drops and bumps, the MC3100 passes Zebra's stringent mechanical design tests for both stress and endurance. The device survives multiple 4 ft./1.2m drops across the entire operating temperature range and continues to deliver dependable performance, even after 500 consecutive 1.64 ft./0.5m tumbles (1,000 hits). IP54 sealing ensures reliable operation in dusty environments ' as well as the ability to endure exposure to liquids and wipe downs.

### ZEBRA MAX DATA CAPTURE ' BEST-IN-CLASS ADVANCED DATA CAPTURE TECHNOLOGY

No matter what type of data you need to capture, you can count on superior performance. Choose from the Symbol SE950 1-D laser scanner or the Symbol SE4500 1-D/2-D imager. The SE950 enables rapid and accurate capture of all 1-D symbologies ' including damaged and poor quality bar codes often found in the warehouse or retail aisles. And the patented Liquid Polymer scan element eliminates friction and wear for superior durability and reliability. If your business data is more diverse, the SE4500 imager enables the capture of 1-D and 2-D bar codes as well as direct part marks, still images and documents. While typical imagers provide the flexibility to capture both 1-D and 2-D bar codes at the cost of 1-D bar code performance, the revolutionary SE4500 redefines imaging technology, offering laser-like performance on 1-D barcodes ' and equally stunning performance on 2-D bar codes.

### ZEBRA MAX SECURE: SECURITY FOR THE MOST SENSITIVE APPLICATIONS

The MC3100 is loaded with security features that provide peace-of-mind for wireless LAN communications. FIPS 140-2 certification and support for the most advanced encryption and authentication algorithms ensure the security and integrity of your wireless transmissions, in addition to protecting access to the wired network. The result is compliance with the most stringent industry security regulations, meeting the requirements for use in government and other applications with highly sensitive data.



### FEATURES Zebra MAX Rugged:

Provides reliable operation in spite of drops, bumps or exposure to dust and splashing liquids; meets applicable MILSTD and IEC specifications for drop, tumble and sealing

### Mobility Platform Architecture (MPA) 2.0

Provides the latest best-inclass technology architecture; preserves existing application investments by enabling easy and cost-effective porting of applications from other Zebra mobile computers

### Zebra MAX Secure:

FIPS 140-2 certification and support for the most advanced encryption and authentication algorithms as well as Virtual Private Networks (VPNs) enables compliance with the most stringent industry security regulations, including sensitive government applications

### Microsoft Windows Mobile 6.X or Windows CE 6.0 operating system:

Choose the operating system that best meets your needs: the familiar Windows Mobile environment offers standard business tools and line-of business applications, a large selection of off-the-shelf applications and an easy application development environment; the Windows CE open platform enables fast and easy development and

### ZEBRA MAX SENSOR ' ENTERPRISE-CLASS MOTION SENSING APPLICATIONS



The MC3100 offers a powerful new capability, Zebra Interactive Sensor Technology (IST), which provides support for a world of new motion-sensing applications that deliver rich business value. Power management features enable the device to automatically revert to sleep mode if movement is not detected in a specified period of time, or if the display is face down. The display can dynamically switch between portrait and

landscape, based on the orientation of the device. The ability to detect and log drops increases worker accountability. In addition, the open architecture allows organizations to access and integrate accelerometer data into customized applications, enabling enterprises to more fully leverage the value of interactive sensing technology.

### INTEGRATED UHF RFID TAG FOR DEVICE ASSET TRACKING

Another unique feature of the MC3100 is the integrated UHF RFID tag, allowing enterprises to more fully leverage existing or planned RFID deployments. The integrated RFID tag enables businesses to automatically track the movement and location of their mobile computers. Maintaining a real-time inventory of your MC3100 mobile computers is literally effortless ' and misplaced devices can be located quickly and easily.

### FLEXIBLE MODELS TO MEET DIVERSE BUSINESS NEEDS

Six different models of the MC3100 are available, allowing you to mix and match devices to best meet the needs of your users and your applications. First, choose the form factor that is best for your application: straight-shooter, gun or turret. The straight-shooter is ideal for standard scanning applications. The gun provides all day comfort for scan intensive activities. The turret provides the flexibility to adjust the scanning position, improving user comfort. All three models offer a choice of operating systems. Microsoft Windows Mobile 6.X Classic provides users with a familiar and intuitive interface that significantly reduces training time, while Windows CE 6.0 Pro provides a robust programming environment to support the development of rich custom applications.

### EASY AND COST-EFFECTIVE DEPLOYMENT

The industry standard MC3100 Series easily integrates with your existing technology environment ' including your wireless LAN (WLAN). Since the MC3000 and the MC3100 as well as many other Zebra mobile computers share a common architectural platform, porting existing applications from other Zebra mobile computers to the MC3100 is fast and easy. Additionally, Zebra's robust award-winning partner channel provides access to a world of well-tested best-in-class line of business applications. The result is a substantial reduction in application development time and costs, enabling rapid deployment, improving the return on investment for existing applications and providing a cost effective path to upgrade to the latest mobile computing technology ' with minimal business disruption.

### **KEYPAD OPTIONS FOR APPLICATION FLEXIBILITY**

As the interface between your workers and your applications, the keypad is at the heart of mobile worker productivity. To achieve maximum productivity in your mobile workforce, the keypad must maximize data entry simplicity. The MC3100 offers a variety of keypads designed to meet the needs of virtually any type of application ' from heavy text entry to calculator-style numeric data.

### THE ZEBRA END-TO-END ADVANTAGE ' CENTRALIZED MANAGEMENT AND A FULL SUITE OF SUPPORT SERVICES

When you choose the Zebra MC3100, you enjoy the advantages of a world-class partner channel, world-class management solutions and world-class services. Zebra's Mobility Suite offers comprehensive management solutions that provide extraordinary centralized control of your MC3100 and other Zebra mobile computing devices, driving device management costs to a new low. For example, Zebra's Mobility Services Platform (MSP) enables remote staging, provisioning, monitoring and troubleshooting of your Zebra mobile computers, regardless of where in the world they are located. The Zebra Mobility Suite also includes a Mobile Virtual Private Network (MVPN) for secure communications as well as multiple software tools and developer kits. In addition, Terminal Emulation (TE) clients provide access to legacy applications (pre-licensed on the MC3100-G). In addition, Zebra's Advanced Services are available to assist you with any stage of development of your mobility solution is deployed, our Customer Services keep your products up and running at peak performance. For the MC3100, Zebra recommends Service from the Start with Comprehensive Coverage. This exceptional service is truly comprehensive, providing technical support and end-to-end protection for your device. Normal wear and tear, internal and external components damaged through accidental breakage and select accessories that ship together with the MC3100 are all covered - for no additional charge.

porting of custom applications

### Zebra MAX Sensor:

Enterprise-class Interactive Sensor Technology (IST) enables leading edge motionbased applications, including dynamic screen orientation, power management and freefall event logging

#### Zebra MAX Data Capture:

Capture the data you need today and tomorrow with industry leading advanced laser scanning or imaging technology:

- Zebra's unmatched laser scanning technology: Delivers aggressive performance and accurate capture of all 1-D bar codes ' including damaged and poor quality bar codes ; patented Liquid Polymer scan element eliminates friction and wear for superior durability and reliability
- Zebra's advanced imaging technology: Aggressive performance on 1-D and 2-D bar codes: patented illumination system and bright aimer enables fast omni-directional bar code reading, increasing productivity by eliminating the need to align bar code and mobile computer

### Backward compatibility with MC3000 accessories:

Upgrade to the MC3100 while preserving your existing MC3000 accessory investment

# Integrated UHF RFID Tag:

Allows enterprises to track and locate MC3100 devices

### New rugged audio jack:

A secure headset connector eliminates the static

For more information on how the MC3100 can benefit your organization, please visit us on the web at <u>www.zebra.com/mc3100</u> or access our global contact directory at<u>www.zebra.com/contact</u>

### SPECIFICATIONS CHART

### PHYSICAL CHARACTERISTICS

### USER ENVIRONMENT

| Ctroight Chapter Inc   |   |  |  |
|--|---|--|--|
| Straight Shooter Imager or Laser:<br>7.49 in. L x 3.25 in. W x 1.77 in. D/<br>190.4 mm x 82.6 mm x 45.2 mm<br>At grip: 2.40 in. W x 1.44 in. D/61.2<br>mm x 36.8 mm<br>Rotating Turret Laser:<br>8.55 in. L x 3.25 in. W x 1.57 in. D/<br>217.12 mm x 82.6 mm x 39.9 mm<br>At grip: 2.40 in. W x 1.14 in. D/61.2<br>mm x 29 mm<br>Gun Configurations:<br>7.5 in. L x 3.2 in. W x 6.5 in. D/<br>193 mm x 80.8 mm x 166 mm | Drop Specification:   | Multiple 4 ft./1.2 m drops to<br>concrete across the operating<br>temperature range, Multiple 5 ft./<br>1.5 m drops to concrete at ambient<br>temperature 73° F/23° C; meets<br>and exceeds MIL-STD 810G   |  |
|  | Tumble<br>Specification:  | 500 1.64 ft./0.5 m tumbles (1,000<br>drops) at room temperature per<br>IEC 68-2-32 tumble specifications   |  |
|  | Operating Temp.:  | -4° F to 122° F/-20° C to 50° C  |  |
|  | Storage Temp.:  | -40° F to 158° F/-40° C to 70° C   |  |
| Straight Shooter Imager or Laser:<br>stylus, and battery): 14.95 oz./424<br>gm (with WLAN)<br>Rotating Turret Laser:<br>13.52 oz./384 gm (with WLAN)<br>Gun Configurations:  | Battery Charging<br>Temp.:  | 32° F to 104° F/0° C to 40° C  |  |
|  | Sealing:  | IP54 category 2; meets applicable<br>EN 60529 sealing specifications   |  |
|  | Humidity:   | 5 - 95% non-condensing   |  |
| 3.0 in. color (TFT) (320 x 320)  | ESD:  | +/-15kVDC air discharge, +/-<br>8kVDC direct discharge, +/-8kVDC<br>indirect discharge   |  |
| Chemically strengthened glass,<br>analog resistive touch   |   |  |  |
| LED Backlight  | Scanning:   | SE950 for 1-D bar codes; SE4500-<br>SR imager for 1-D/2-D bar codes;<br>SE4500-HD 2-D imager for 1-D/2-<br>D bar codes and direct part marks<br>Three available models: MC31X0<br>Turret with Rotating Head;   |  |
| 28-key Numeric, 38-key Shifted<br>Alpha (calculator-style integrated<br>numeric keypad), 48-key  |   |  |  |
| Alpha-Numeric (calculator-style integrated numeric keypad)   | Options:  |  |  |
| User accessible SD/MMC slot;<br>approved for memory expansion<br>only  |   | MC31X0 Straight Shooter;<br>MC3190 Gun   |  |
| Programmable LEDs; Audio<br>notifications  | 1D LASER SCANNER (SE950)  |  |  |
|  | Range on 100%<br>UPCA   | Near: 1.75 in./4.45 cm<br>Far: 15.35 in./39 cm   |  |
| CHARACTERISTICS  |   |  |  |
| Marvell PXA320 624 MHz   | Resolution:   | 4 Mil minimum element width  |  |
| Microsoft Windows CE 6.0 Pro or  | Roll:   | ±35° from vertical   |  |
|  | Pitch Angle:  | ±65° from normal   |  |
|  | Skew Tolerance:   | ±50° from normal   |  |
| PowerPrecision Li-Ion<br>batteries<br>Two options: High Capacity 4800  | Ambient Light<br>Immunity:  | Tolerant to typical artificial indoor<br>and natural outdoor (direct sunlight<br>) lighting conditions.  |  |
|  | 7.49 in. L x 3.25 in. W x 1.77 in. D/<br>190.4 mm x 82.6 mm x 45.2 mm<br>At grip: 2.40 in. W x 1.44 in. D/61.2<br>mm x 36.8 mm<br>Rotating Turret Laser:<br>8.55 in. L x 3.25 in. W x 1.57 in. D/<br>217.12 mm x 82.6 mm x 39.9 mm<br>At grip: 2.40 in. W x 1.14 in. D/61.2<br>mm x 29 mm<br>Gun Configurations:<br>7.5 in. L x 3.2 in. W x 6.5 in. D/<br>193 mm x 80.8 mm x 166 mm<br>Straight Shooter Imager or Laser:<br>stylus, and battery): 14.95 oz./424<br>gm (with WLAN)<br>Rotating Turret Laser:<br>13.52 oz./384 gm (with WLAN)<br>Gun Configurations:<br>18.34 oz./520 gm<br>3.0 in. color (TFT) (320 x 320)<br>display with backlight<br>Chemically strengthened glass,<br>analog resistive touch<br>LED Backlight<br>28-key Numeric, 38-key Shifted<br>Alpha (calculator-style integrated<br>numeric keypad), 48-key<br>Alpha-Numeric (calculator-style<br>integrated numeric keypad)<br>User accessible SD/MMC slot;<br>approved for memory expansion<br>only<br>Programmable LEDs; Audio<br>notifications<br><b>ECHARACTERISTICS</b><br>Marvell PXA320 624 MHz<br>Microsoft Windows CE 6.0 Pro or<br>Windows Mobile 6.X Classic<br>256MB RAM/1GB Flash<br>PowerPrecision Li-Ion<br>batteries | 7.49 in. L x 3.25 in. W x 1.77 in. D/<br>190.4 mm x 82.6 mm x 45.2 mm<br>At grip: 2.40 in. W x 1.44 in. D/61.2<br>mm x 36.8 mmTumble<br>Specification:Rotating Turret Laser:<br>8.55 in. L x 3.25 in. W x 1.57 in. D/<br>217.12 mm x 82.6 mm x 39.9 mm<br>At grip: 2.40 in. W x 1.14 in. D/61.2<br>mm x 29 mm<br>Gun Configurations:<br>7.5 in. L x 3.2 in. W x 6.5 in. D/<br>193 mm x 80.8 mm x 166 mmTumble<br>Specification:Straight Shooter Imager or Laser:<br>stylus, and battery): 14.95 oz./424<br>gm (with WLAN)<br>Rotating Turret Laser:<br>13.52 oz./384 gm (with WLAN)<br>Gun Configurations:<br>18.34 oz./520 gmBattery Charging<br>Temp.:<br>Sealing:3.0 in. color (TFT) (320 x 320)<br>display with backlightDATA CAPTURI<br>Scanning:<br>ESD:28-key Numeric, 38-key Shifted<br>Alpha-Numeric (calculator-style<br>integrated numeric keypad), 48-key<br>Alpha-Numeric (calculator-style<br>integrated numeric keypad), 48-key<br>Alpha-Numeric (calculator-style<br>integrated numeric keypad), 48-key<br>Alpha-Numeric (calculator-style<br>integrated numeric keypad), 48-key<br>Alpha-Numeric (calculator-style<br>integrated numeric keypad)Options:Programmable LEDs; Audio<br>notificationsID LASER SCAI<br>Range on 100%<br>UPCA<br>at 30 ft./candles:Marvell PXA320 624 MHzResolution:<br>Roll:Microsoft Windows CE 6.0 Pro or<br>Windows Mobile 6.X ClassicRull:<br>Pitch Angle:256MB RAM/1GB FlashSkew Tolerance:<br>Ambient Light<br>Immunity: |  |

associated with wired headset cable movement; ensures voice quality and protects productivity in voice directed applications

### Polycarbonate Insert Mold Decorated (IMD) keypad:

Greatly improves keypad durability: eliminates the potential to dislodge an individual key; printing under the polycarbonate layer protects keypad graphics against wear

### WLAN: 802.11a/b/g tri-mode radio; comprehensive Voice-over-WLAN support:

Enables cost-effective voice and data connectivity in the office and in hot spots; easy integration with virtually any WLAN; CCX v4 certified; supports IPV6; supports 802.11a for voice and data interference mitigation

## WPAN: Bluetooth® v2.1 with EDR:

Provides a wireless connection to printers and more; provides additional throughput (up to 3 Mbps), improved security and additional profiles for expanded connectivity to more device types

### Keypad options ' 28key numeric; 38-key shifted alpha, 48-key alphanumeric:

Flexibility to standardize on a single device family, yet meet diverse user and application needs

### Comprehensive centralized device management:

Compatibility with Zebra Mobility Services Platform ( MSP) and Zebra Mobility Suite provides superior centralized and remote management of all devices anywhere in the world ' from a single console

| Application<br>Development:                 | mAh<br>or Standard Capacity 2400 mAh<br>Zebra Enterprise Mobility<br>Developer Kit (EMDK)  | -   | Fluorescent, Incandescent,<br>Mercury Vapor, Sodium Vapor,<br>LED: 450 Ft Candles (4,844 Lux)<br>Sunlight: 8000 Ft Candles (86,111<br>Lux) |
|---|--|---|--|
| 2D IMAGER (SE4500-SR)                       |  | -   | Note: LED lighting with high AC<br>ripple content can impact scanning<br>performance.  |
| Range on 100%<br>UPCA<br>at 30 ft./candles: | Near: 2.5 in./6.35 cm<br>Far: 14.2 in./36.07 cm  | Scan Rate:  | 104 (+/- 12) scans/sec (<br>bi-directional)  |
| Sensor Resolution:                          | 752 x 480 pixels   | Scan Angle:   | 47° ± 3° default; configurable<br>narrow angle: 35° ± 3°   |
| Field of View:                              | Horizontal: 38°; Vertical: 25°   |   | nanow angle. 35 ± 5  |
| Skew Tolerance:                             | ±60°   | WIRELESS PAN DATA AND VOICE<br>COMMUNICATIONS   |  |
| Pitch Tolerance:                            | ±60°   |   |  |
| Roll Tolerance:                             | 360°   | Bluetooth®:   | Class II, v2.1 with Enhanced Data  |
| Ambient Light<br>Immunity:                  | Total darkness to 9,000 ft. candles/<br>96,900 lux   | _ Rate (EDR); integrated antenna  |  |
| Aiming LED (VLD):                           | 655 ± 10 nm Laser  | NETWORK CO  | MMUNICATIONS   |
| Illumination Element<br>(LED):              | 625 ± 5 nm LEDs (2x)   | - I/O:  | USB 1.1 Full Speed Host/ Client or RS232   |
|   | (500.112)  | PERIPHERALS   | AND ACCESSORIES*   |
| 2D IMAGER (SE                               | *  | Cradles:  | Single-slot USB/RS232 charging   |
| Range on 100%<br>UPCA<br>at 30 ft./candles: | Near: 2.62 in./6.65 cm<br>Far: 6.1 in./15.49 cm  |   | cradle with spare battery well;<br>Four-slot charge only cradle; four<br>slot Ethernet cradle  |
| Sensor Resolution:                          | 752 x 480 pixels   | Chargers:   | Four-slot battery charger; adaptor   |
| Field of View:                              | Horizontal: 39°; Vertical: 25°   |   | for universal battery charger  |
| Skew Tolerance:                             | ±60°   | Printers:   | Supports Zebra approved printers   |
| Pitch Tolerance:                            | ±60°   | • •   | Holsters, charging cables, magnetic stripe reader, dial up   |
| Roll Tolerance:                             | 360°   | -   | modem, spare batteries and audio   |
| Ambient Light<br>Immunity:                  | Total darkness to 9,000 ft. candles/<br>96,900 lux   | cables * For a complete list of MC3100 Peripherals and Accessories, please visit www.zebra.com/mc3100 |  |
| Aiming LED (VLD):                           | 655 ± 10 nm Laser  |   |  |
| Illumination Element                        | 625 ± 5 nm LEDs (2x)   |   |  |
| (LED):                                      |  | REGULATORY  |  |
| ZEBRA INTERA                                | CTIVE SENSOR   | Electrical Safety:  | Certified to UL60950-1, CSA<br>C22.2No. 60950-1, EN60950-1/<br>IEC 60950-1   |
| TECHNOLOGY                                  |  | Environmental:  | RoHS-compliant   |
| m<br>dy                                     | 3-axis accelerometer that enables<br>motion-sensing applications on<br>dynamic screen orientation, power<br>management and free-fall detects | WLAN and<br>Bluetooth:  | USA: FCC Part 15.247, 15.407<br>Canada: RSS-210<br>EU: EN 300 328, EN 301 893<br>Japan: ARIB STD-T33, T66, T70,                            |
| WIRELESS LAN                                | VOICE AND DATA   | -   | T71<br>Australia:AS/NZS 4268   |
| Radio:                                      | Tri-mode IEEE® 802.11a/b/g   | RF Exposure:  | <b>USA:</b> FCC Part 2, FCC OET<br>Bulletin 65 Supplement C  |
| Antenna:                                    | Internal antenna w/diversity   |   | Canada: RSS-102  |
|   | ······,  | -   | EU: EN 62311   |

| Data Rates<br>Supported:                    | 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36,<br>48 and 54 Mbps   |  | Australia: Radiocommunications<br>Standard 2003   |
|---|--|--|---|
| Operating Channels:                         | Chan 1-13 (2412-2472 MHz),<br>Chan 14 (2484 MHz) Japan only;<br>actual operating channels/<br>frequencies depend on regulatory<br>rules and certification agency | EMI/RFI Radio<br>Versions:   | <b>USA:</b> FCC Part 15<br><b>Canada:</b> RSS210 Class B<br><b>EU:</b> EN 301 489-1, 489-17       |
|   |  | EMI/RFI Batch<br>Versions:   | USA: FCC Part 15<br>Canada: ICES 003 Class B  |
| Communications: certific<br>seque<br>Multin | Voice-over-IP ready, Wi-Fi'¢<br>certified, IEEE 802.11 a/b/g direct<br>sequence wireless LAN, Wi-Fi  |  | <b>EU:</b> EN55022 Class B EN55024<br><b>Japan:</b> CISPR 22, Class B<br><b>Australia:</b> AS3548 |
|   | Multimedia'¢ (WMM), Zebra Voice<br>Quality Manager (VQM)   | Laser Safety:  | IEC Class2/FDA Class II in<br>accordance with IEC60825-1/<br>EN60825-1                            |
| VOICE AND AUDIO                             |  | For countries outside USA, Canada, European Economic   |   |
| Audio                                       | AC97 Compatible Codec to play<br>audio over speaker or headset;<br>microphone; simultaneous audio  | Area, Japan or Australia, consult your local Zebra representative  |   |
| Push-to-Talk                                | PTT (client included); wired<br>headset support, PTT will support<br>headset and speakerphone mode   | WARRANTY   |   |
|   |  | The MC3100 is warranted against defects in<br>– workmanship and materials for a period of 12 months<br>from date of shipment, provided that the product<br>remains unmodified and is operated under normal and<br>proper conditions. |   |
| Voice Directed<br>Picking                   | TekSpeech Pro Certified;<br>Compatible with 3rd party<br>VDP clients   |  |   |
|   |  | RECOMMEND  | ED SERVICES   |
|   |  |  |   |

Customer Services: Se

Service from the Start with Comprehensive Coverage



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**ZEBRA TECHNOLOGIES**