



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

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-in-class 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

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.

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

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 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

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 ' from planning and assessment through system design and deployment. And once 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.

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

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

SPECIFICATIONS CHART

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

PHYSICAL CHARACTERISTICS		USER ENVIRONMENT	
Dimensions:	Straight Shooter Imager or Laser: 7.49 in. L x 3.25 in. W x 1.77 in. D/ 190.4 mm x 82.6 mm x 45.2 mm At grip: 2.40 in. W x 1.44 in. D/61.2 mm x 36.8 mm Rotating Turret Laser: 8.55 in. L x 3.25 in. W x 1.57 in. D/ 217.12 mm x 82.6 mm x 39.9 mm At grip: 2.40 in. W x 1.14 in. D/61.2 mm x 29 mm Gun Configurations: 7.5 in. L x 3.2 in. W x 6.5 in. D/ 193 mm x 80.8 mm x 166 mm	Drop Specification:	Multiple 4 ft./1.2 m drops to concrete across the operating temperature range, Multiple 5 ft./ 1.5 m drops to concrete at ambient temperature 73° F/23° C; meets and exceeds MIL-STD 810G
		Tumble Specification:	500 1.64 ft./0.5 m tumbles (1,000 drops) at room temperature per 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
		Battery Charging Temp.:	32° F to 104° F/0° C to 40° C
Weight (including strap, stylus, and battery):	Straight Shooter Imager or Laser: stylus, and battery): 14.95 oz ./424 gm (with WLAN) Rotating Turret Laser: 13.52 oz./384 gm (with WLAN) Gun Configurations: 18.34 oz./520 gm	Sealing:	IP54 category 2; meets applicable EN 60529 sealing specifications
		Humidity:	5 - 95% non-condensing
		ESD:	+/-15kVDC air discharge, +/- 8kVDC direct discharge, +/- 8kVDC indirect discharge
Display:	3.0 in. color (TFT) (320 x 320) display with backlight	DATA CAPTURE OPTIONS	
Touch Panel:	Chemically strengthened glass, analog resistive touch	Scanning:	SE950 for 1-D bar codes; SE4500-SR imager for 1-D/2 -D bar codes; SE4500-HD 2-D imager for 1-D/2-D bar codes and direct part marks
Backlight:	LED Backlight	Options:	Three available models: MC31X0 Turret with Rotating Head; MC31X0 Straight Shooter; MC3190 Gun
Keypad Options:	28-key Numeric, 38-key Shifted Alpha (calculator-style integrated numeric keypad), 48-key Alpha-Numeric (calculator-style integrated numeric keypad)	1D LASER SCANNER (SE950)	
Expansion Slot:	User accessible SD/MMC slot; approved for memory expansion only	Range on 100% UPCA at 30 ft./candles:	Near: 1.75 in./4.45 cm Far: 15.35 in./39 cm
Notifications:	Programmable LEDs; Audio notifications	Resolution:	4 Mil minimum element width
PERFORMANCE CHARACTERISTICS		Roll:	±35° from vertical
CPU:	Marvell PXA320 624 MHz	Pitch Angle:	±65° from normal
Operating	Microsoft Windows CE 6.0	Skew Tolerance:	±50° from normal
		Ambient Light	Tolerant to typical artificial

System:	Pro or Windows Mobile 6.X Classic	Immunity:	indoor and natural outdoor (direct sunlight) lighting conditions.
Memory:	256MB RAM/1GB Flash		Fluorescent, Incandescent, Mercury Vapor, Sodium Vapor, LED: 450 Ft Candles (4,844 Lux)
Power	PowerPrecision Li-Ion batteries Two options: High Capacity 4800 mAh or Standard Capacity 2400 mAh		Sunlight: 8000 Ft Candles (86,111 Lux) Note: LED lighting with high AC ripple content can impact scanning performance.
Application Development:	Zebra Enterprise Mobility Developer Kit (EMDK)	Scan Rate:	104 (+/- 12) scans/sec (bi-directional)
2D IMAGER (SE4500-SR)		Scan Angle:	47° ± 3° default; configurable narrow angle: 35° ± 3°
Range on 100% UPCA at 30 ft./candles:	Near: 2.5 in./6.35 cm Far: 14.2 in./36.07 cm	WIRELESS PAN DATA AND VOICE COMMUNICATIONS	
Sensor Resolution:	752 x 480 pixels	Bluetooth®:	Class II, v2.1 with Enhanced Data Rate (EDR); integrated antenna
Field of View:	Horizontal: 38°; Vertical: 25°	NETWORK COMMUNICATIONS	
Skew Tolerance:	±60°	I/O:	USB 1.1 Full Speed Host/Client or RS232
Pitch Tolerance:	±60°	PERIPHERALS AND ACCESSORIES*	
Roll Tolerance:	360°	Cradles:	Single-slot USB/RS232 charging cradle with spare battery well; Four-slot charge only cradle; four slot Ethernet cradle
Ambient Light Immunity:	Total darkness to 9,000 ft. candles/96,900 lux	Chargers:	Four-slot battery charger; adaptor for universal battery charger
Aiming LED (VLD):	655 ± 10 nm Laser	Printers:	Supports Zebra approved printers
Illumination Element (LED):	625 ± 5 nm LEDs (2x)	Other Accessories:	Holsters, charging cables, magnetic stripe reader, dial up modem, spare batteries and audio cables
2D IMAGER (SE4500-HD)		* For a complete list of MC3100 Peripherals and Accessories, please visit www.zebra.com/mc3100	
Range on 100% UPCA at 30 ft./candles:	Near: 2.62 in./6.65 cm Far: 6.1 in./15.49 cm	REGULATORY	
Sensor Resolution:	752 x 480 pixels	Electrical Safety:	Certified to UL60950-1, CSA C22.2No. 60950-1, EN60950-1/IEC 60950-1
Field of View:	Horizontal: 39°; Vertical: 25°	Environmental:	RoHS-compliant
Skew Tolerance:	±60°	WLAN and Bluetooth:	USA: FCC Part 15.247, 15.407
Pitch Tolerance:	±60°		
Roll Tolerance:	360°		
Ambient Light Immunity:	Total darkness to 9,000 ft. candles/96,900 lux		
Aiming LED (VLD):	655 ± 10 nm Laser		
Illumination Element (LED):	625 ± 5 nm LEDs (2x)		
ZEBRA INTERACTIVE SENSOR TECHNOLOGY			

Motion-sensor: 3-axis accelerometer that enables motion-sensing applications on dynamic screen orientation, power management and free-fall detects

Canada: RSS-210
EU: EN 300 328, EN 301 893
Japan: ARIB STD-T33, T66, T70, T71
Australia:AS/NZS 4268

WIRELESS LAN VOICE AND DATA COMMUNICATIONS

Radio: Tri-mode IEEE® 802.11a/b/g

Antenna: Internal antenna w/diversity

Data Rates Supported: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps

Operating Channels: Chan 1-13 (2412-2472 MHz), Chan 14 (2484 MHz) Japan only; actual operating channels/frequencies depend on regulatory rules and certification agency

Voice Communications : Voice-over-IP ready, Wi-Fi® certified, IEEE 802.11 a/b/g direct sequence wireless LAN, Wi-Fi Multimedia® (WMM), Zebra Voice Quality Manager (VQM)

VOICE AND AUDIO

Audio AC97 Compatible Codec to play audio over speaker or headset; microphone; simultaneous audio

Push-to-Talk PTT (client included); wired headset support, PTT will support headset and speakerphone mode

Voice Directed Picking TekSpeech Pro Certified; Compatible with 3rd party VDP clients

RF Exposure: **USA:** FCC Part 2, FCC OET Bulletin 65 Supplement C

Canada: RSS-102

EU: EN 62311

Australia: Radiocommunications Standard 2003

EMI/RFI Radio Versions: **USA:** FCC Part 15
Canada: RSS210 Class B
EU: EN 301 489-1, 489-17

EMI/RFI Batch Versions: **USA:** FCC Part 15
Canada: ICES 003 Class B
EU: EN55022 Class B EN55024
Japan: CISPR 22, Class B
Australia: AS3548

Laser Safety: IEC Class2/FDA Class II in accordance with IEC60825-1 /EN60825-1

For countries outside USA, Canada, European Economic Area, Japan or Australia, consult your local Zebra representative

WARRANTY

The MC3100 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: Service from the Start with Comprehensive Coverage



ZEBRA

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ZEBRA TECHNOLOGIES