



**Features**  
**Zebra MAX Rugged:**  
 Next generation rugged

# ZEBRA MC9500-K SERIES

## A PREMIUM INDUSTRIAL-CLASS MOBILE COMPUTER — RAISING THE BAR FOR RUGGED KEY-BASED FIELD MOBILITY APPLICATIONS

The next evolution in rugged design, ergonomics, features, functionality and performance The MC9500-K Series leverages the flagship features and functionality of Zebra's signature MC9000 Series rugged mobile computers, while introducing many new capabilities defined through extensive research and testing in logistics, parcel/post, direct store delivery (DSD), field service, public safety and sales force automation applications in some of the world's leading organizations. The result is a device that is as different on the inside as it is on the outside — a groundbreaking product with an unsurpassed feature set that takes rugged mobile computing innovation to a new level. With the MC9500-K Series, you can simply expect more: a more rugged design, more data capture options, more intelligence, more processing power and better ergonomics, all in a sleeker, lighter and easier-to-use form factor that offers true carrier independence as well as a completely new approach to accessories, battery and backroom management.

**design:**  
 industry leading drop and tumble tests, IP67 sealing, Monocoque housing and integrated internal antennas (WWAN, WLAN and GPS); meets and exceeds applicable MIL-STD and IEC specifications for drop, tumble, sealing and other environment parameters

Next generation ergonomic design — sleeker, smaller, easier-to-grip rugged form factor delivers a new level of comfort and easy one-handed operation for key-based applications

Zebra MAX FlexWAN for true carrier independence — support one or more networks and change networks as needed with this flexible family. Purchase with one of three different WAN modules, or add and change WAN modules to meet the needs of your mobile workforce, right in your back room:

**Zebra MAX Keypad:**  
 Modular field swappable keypad options with new ergonomics — alpha primary, numeric telephony, numeric calculator, and full alpha numeric

Extremely durable Polycarbonate Insert Mold Decorated (IMD) keypad

Best-in-class display with advanced LCD technology for easy viewing in any

### SPECIFICATIONS CHART

PHYSICAL CHARACTERISTICS		DATA CAPTURE	
<b>Dimensions</b>	9.2 in. H x 3.5 in. W x 2 in. D 23.36 cm H x 8.89 cm W x 5.08 cm D	<b>Scanning</b>	1D Scanner; 2D Imager; 3 MP auto-focus flash-enabled digital color camera with symbology decode software
<b>Weight</b>	22 oz./623 g (including battery, stylus, keypad & strap)	<b>Scan Angle</b>	Optimized for scanning (15° downward angle)
<b>Display</b>	3.7 in. VGA Color (TFT) Display (640 x 480) with touch panel and backlight	<b>Options</b>	Integrated Magnetic Stripe Reader (MSR) with encrypted head (optional)
<b>Touchpanel</b>	Polycarbonate analog resistive touch	<b>COLOR CAMERA</b>	
<b>Backlight</b>	LED backlight	<b>Resolution</b>	3 megapixel
<b>Keypad Options</b>	Modular: alpha primary; numeric telephony, numeric calculator, alpha numeric	<b>Illumination</b>	User controllable flash
<b>Expansion Slot</b>	microSD slot — supports up to 32 GB	<b>Lens</b>	Autofocus
		<b>1D LASER SCANNER (SE950)</b>	
<b>Notifications</b>	Programmable LEDs; Audio notifications; Vibrator alerts	<b>Range on 100% UPCA</b>	24 in./60 cm

<b>PERFORMANCE CHARACTERISTICS</b>		<b>Resolution</b>	4 Mil minimum element width
		<b>Roll</b>	±35° from vertical
<b>CPU</b>	Marvell PXA320 @ 806 MHz	<b>Pitch Angle</b>	±65° from normal
<b>Operating System</b>	All models except MC959B: Windows Mobile 6.5 (Classic and Professional editions) MC959B: Windows Mobile 6.1	<b>Skew Tolerance</b>	±50° from normal
<b>Memory</b>	256MB RAM/1GB Flash	<b>Ambient Light Immunity</b>	Tolerant to typical artificial indoor and natural outdoor (direct sunlight) lighting conditions. Fluorescent, Incandescent, Mercury Vapor, Sodium Vapor, LED: 450 Ft Candles (4,844 Lux) Sunlight: 8000 Ft Candles (86,111 Lux) Note: LED lighting with high AC ripple content can impact scanning performance.

lighting 3.7 inch color high resolution VGA display (640 x 480) with digitizer and backlight

Mobility Platform Architecture (MPA) 2.0, provides the latest best-in-class technology platform and enables easy and cost-effective porting of applications from other Zebra mobile computers

**Next generation performance:** powerful Marvell PXA320 @ 806 MHz microprocessor, larger memory footprint and a user accessible micro-SD card

Microsoft Windows Mobile 6.x operating system increases interoperability and security (Windows Mobile 6.5 for integrated voice and data models; Windows Mobile 6.1 for data-only MC959B model )

Zebra MAX Sensor — Interactive Sensor Technology (IST) offers leading edge motionbased applications

**Zebra MAX Locate:** Supports Assisted and Autonomous GPS; SUPL 1.0 compliant — enables a signal lock in challenging areas where signals are typically weak, such as urban canyons and indoors

**WLAN:** 802.11a/b/g tri-mode radio; comprehensive VoIP support FIPS 140-2 certification ensures data security — even in sensitive government applications

**WPAN:** Bluetooth® v2.1 with EDR IrDA for wireless connectivity to existing business equipment


**Zebra MAX Data Capture:** Multi-mode data capture: industry leading 1D/2D bar

<b>USER ENVIRONMENT</b>	
<b>Drop Specification</b>	6 ft./1.8 m drop to concrete across the operating temperature range; meets and exceeds applicable MIL-STD-810G drop specifications
<b>Tumble Specification</b>	2000 3.2 ft./1 m tumbles (4,000 hits) at room temperature; meets and exceeds applicable IEC tumble specifications
<b>Operating Temperature</b>	-4° F to 122° F/-20° C to 50° C
<b>Storage Temp.</b>	Ambient to -40° F/-40° C Ambient to 158° F/70° C RH 95%
<b>Sealing</b>	IP67 sealing; meets and exceeds applicable IEC sealing specifications
<b>Humidity</b>	5 - 95% non-condensing
<b>Vibration</b>	4g's PK Sine (5Hz to 2KHz); 0.04g2/Hz Random (20Hz to 2KHz); 60 minute duration per axis, 3 axis
<b>Thermal Shock</b>	-40° F to 158° F/-40° C to 70° C rapid transition
<b>ESD</b>	±15kv Air discharge, ±8kv direct discharge, ±8kv indirect discharge
<b>Altitude</b>	-1,200 ft. to 12,000 ft. operational; 15,000 ft. shipping
<b>Key and Trigger</b>	1 million presses
<b>Light Immunity</b>	Readability: Incandescent – 450 ft. candles; Sunlight – 8000 ft. candles; Fluorescent: 450 ft. candles

<b>ZEBRA INTERACTIVE SENSOR TECHNOLOGY</b>	
<b>Motion-sensor</b>	3-axis accelerometer that enables motion-sensing applications for dynamic screen orientation, power management and free-fall detects

<b>WIRELESS LAN VOICE AND DATA COMMUNICATIONS</b>	
<b>Radio</b>	Tri-mode IEEE® 802.11a/b/g
<b>Security</b>	WPA2 (Personal or Enterprise); 802.1x; EAP-TLS; TTLS (CHAP, MS-CHAP, MS-CHAPv2, PAP or MD5); PEAP (TLS, MSCHAPv2, EAP-GTC); LEAP, EAP-FAST (TLS, MS-CHAPv2, EAP-GTC); CCXv4 certified; support for IPv6; FIPS 140-2 Certified

<b>Antenna</b>	Internal antenna w/diversity
<b>Data Rates Supported</b>	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps
<b>Voice Communications:</b>	Voice-over-IP ready, Wi-Fi™-certified, IEEE 802.11a/b/g direct sequence wireless LAN, Wi-Fi Multimedia™ (WMM), Zebra Voice Quality Manager (VQM)

<b>BATTERY</b>	
<b>Power</b>	 PowerPrecision Lithium ion battery 4800 mAh – with State of Charge and State of Health indicators

**REGULATORY**

<b>Standby Time</b>	150 hours	<b>Electrical Safety</b>	IEC/UL/CSA/EN 60950-1	code scanning plus 3 megapixel (2048 x 1536) autofocus flash-enabled optional digital color camera with decode and high resolution document capture capability
<b>Talk Time</b>	8 hours (minimum/suspend mode)	<b>Environmental</b>	RoHS compliant	
<b>User Profiles</b>	<b>Outdoor WAN+GPS:</b> 15 min./hour voice communication, 10KB transmission every 10 min, and GPS on all time, default out-of-box configuration of other parameters, minimum 8 hours of operation <b>Outdoor Voice:</b> 15 min./hour voice communication, default out-of-box configuration of other parameters, minimum 8 hours of operation <b>Outdoor Scan:</b> 600 scans and WAN transmits per hour, default out-of-box configuration of other parameters, minimum 8 hours of operation	<b>WLAN and Bluetooth (PAN)</b>	USA: FCC Part 15.247, 15.407 Canada: RSS-210 EU: EN 300 328, EN 301 893 Japan: ARIB STD T33, T66, T70, T71 Australia: AS/NZS 4268	
		<b>Wireless Wide Area Network</b>	<b>GSM-HSDPA</b> Global: 3GPP TS 51.010, 3GPP TS 34.121, 3GPP TS 34.123, GCF approved module USA: FCC Part 22, Part 24 Canada: RSS-132, RSS-133 EU: EN301 511, EN301 908 Australia: AS/ACIF S 024 HAC compliant <b>CDMA-EVDO</b> USA: FCC Part 22, Part 24 Canada: RSS-129, RSS-133 HAC compliant NOTE: Data only MC959B model is not HAC compliant	

High quality speakerphone, microphone and receiver for multiple voice modes — handset, headset and speakerphone

Zebra MAX Backroom Management: gamechanging backroom management through an industry-first Universal Accessory System

**Zebra MAX Battery:** high capacity battery with unique, industry-first battery information indicators for state of charge and state of health, greatly simplifying battery management

## WIRELESS WAN VOICE AND DATA COMMUNICATIONS

<b>Radio</b>	Modular 3.5G WAN (GSM HSDPA or CDMA EVDO Rev A) MC959B: Modular 3.5G Dual-WAN (GSM HSUPA and CDMA EVDO Rev A)
<b>Frequency Band</b>	HSDPA: 850, 900, 1800,1900, and 2100 MHz EVDO Rev A: 850 and 1900 MHz

<b>RF Exposure</b>	±50° from normal
<b>Ambient Light Immunity</b>	USA: FCC Part 2, FCC OET Bulletin 65 Supplement C Canada: RSS-102 EU: EN 50360 Japan: ARIB STD T56 Australia: Radiocommunications Standard 2003
<b>EMI/RFI</b>	USA: FCC Part 15, Class B Canada: ICES-003 Class B EU: EN55022 Class B, EN 55024, EN 301 489-1, EN 301 489-7, EN 301 489-17, EN 301 489-19, EN 301 489-24, EN 60601-1-2, EN 50121-3-2, EN 50121-4 Australia: AS/NZS CISPR-22

IEEE 1725 compliance for the entire MC9500-K system — all models, batteries and power-related accessories (such as cradles and charging cables) MSP compatibility — comprehensive and flexible centralized management of all devices, anywhere in the world, all from a single console

## WIRELESS PAN DATA AND VOICE COMMUNICATIONS

<b>Bluetooth®</b>	Class II, v2.1 with Enhanced Data Rate (EDR); integrated antenna; FIPS 140-2 compliant
<b>IrDA</b>	Infra-red port for connection to printers and other devices

<b>Laser Safety</b>	IEC Class2 / FDA Class II in accordance with IEC60825-1/EN60825-1
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**For countries outside USA, Canada, European Economic Area, Japan, or Australia, consult your local Zebra representative**

## VOICE AND AUDIO

<b>Audio</b>	VoWWAN; VoWLAN; rugged audio connector; high-quality speakerphone; support for wired and wireless (Bluetooth) headsets; headset, handset and speaker phone modes (Applies to all models except MC959B, which is data only)
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## NETWORK COMMUNICATIONS

<b>I/O</b>	USB 2.0 Client (High Speed) or USB 1.1 host (Full Speed); USB (via 1-bay cradle) or Ethernet (via 4-bay cradle)
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**PERIPHERALS AND ACCESSORIES\***

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**Communication and Charging Cables**      Charge only cable, auto charge cable, USB charge/sync cable, DEX cable, modem adapter cable

**Battery Chargers/ Cradles**      4-slot battery charger; 1-slot battery charger; 4-bay Ethernet cradle; 4-bay charge only cradle; single bay USB cradle; vehicle battery charger using auto charge cable; vehicle cradle with charging capabilities

**Application Specific Attachments**      Snap-on magnetic stripe reader

**Soft Goods**      Rigid and soft case holsters

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**WARRANTY**

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The MC9500-K 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.

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\* For a complete list of MC9500-K Peripherals and Accessories, please visit [www.zebra.com/mc9500k](http://www.zebra.com/mc9500k)

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**HAZARDOUS LOCATION CERTIFICATIONS**

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UL Class I, II, III Division 2, Groups A, B, C, D, F, G (Select Configurations Only)

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**RECOMMENDED SERVICES**

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**Customer Services**  
**Service from the Start with Comprehensive Coverage**



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**ZEBRA TECHNOLOGIES**