



## 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.

#### Features

##### Zebra MAX Rugged:

Next generation rugged

##### 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

# 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>Notifications</b>	Programmable LEDs; Audio notifications; Vibrator alerts	<b>1D LASER SCANNER (SE950)</b>	
<b>PERFORMANCE CHARACTERISTICS</b>		<b>Range on 100% UPCA</b>	24 in./60 cm
<b>CPU</b>	Marvell PXA320 @ 806 MHz	<b>Resolution</b>	4 Mil minimum element width
<b>Operating System</b>	All models except MC959B: Windows Mobile 6.5 (Classic and Professional editions) MC959B: Windows Mobile 6.1	<b>Roll</b>	±35° from vertical
<b>Memory</b>	256MB RAM/1GB Flash	<b>Pitch Angle</b>	±65° from normal
<b>USER ENVIRONMENT</b>		<b>Skew Tolerance</b>	±50° from normal
<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>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.
<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>Scan Rate</b>	104 (±12) scans/sec ( bi-directional)
<b>Operating Temperature</b>	-4° F to 122° F/-20° C to 50° C	<b>Scan Angle</b>	47° ±3° default; 35° ±3° reduced
<b>Storage Temp.</b>	Ambient to -40° F/-40° C	<b>ZEBRA INTERACTIVE SENSOR TECHNOLOGY</b>	
		<b>Motion-sensor</b>	3-axis accelerometer that enables motion-sensing applications for dynamic

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 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

	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

## BATTERY

### Power



PowerPrecision  
Lithium ion battery  
4800 mAh ' with  
State of Charge  
and State of Health  
indicators

### Standby Time

150 hours

### Talk Time

8 hours (minimum/suspend mode)

### User Profiles

**Outdoor WAN+GPS:** 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  
**Outdoor Voice:** 15 min./hour voice communication, default out-of-box configuration of other parameters, minimum 8 hours of operation  
**Outdoor Scan:** 600 scans and WAN transmits per hour, default out-of-box configuration

screen orientation, power management and free-fall detects

weak, such as urban canyons and indoors

## WIRELESS LAN VOICE AND DATA COMMUNICATIONS

### Radio

Tri-mode IEEE® 802.11a/b/g

### Security

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

### Antenna

Internal antenna w/diversity

### Data Rates Supported

1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps

### Voice Communications :

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

## REGULATORY

### Electrical Safety

IEC/UL/CSA/EN 60950-1

### Environmental

RoHS compliant

### WLAN and Bluetooth (PAN)

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

### Wireless Wide Area Network

#### GSM-HSDPA

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  
**CDMA-EVDO**  
USA: FCC Part 22, Part 24  
Canada: RSS-129, RSS-133  
HAC compliant

### 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 code scanning plus 3 megapixel (2048 x 1536) autofocus flash-enabled optional digital color camera with decode and high resolution document capture capability

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

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

of other parameters,  
minimum 8 hours of  
operation

NOTE: Data only MC959B  
model is not HAC  
compliant

<b>WIRELESS WAN VOICE AND DATA COMMUNICATIONS</b>		<b>RF Exposure</b>	±50° from normal
<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>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>Frequency Band</b>	HSDPA: 850, 900, 1800, 1900, and 2100 MHz EVDO Rev A: 850 and 1900 MHz	<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
<b>WIRELESS PAN DATA AND VOICE COMMUNICATIONS</b>		<b>Laser Safety</b>	IEC Class2 / FDA Class II in accordance with IEC60825-1/EN60825-1
<b>Bluetooth®</b>	Class II, v2.1 with Enhanced Data Rate (EDR); integrated antenna; FIPS 140-2 compliant	<b>For countries outside USA, Canada, European Economic Area, Japan, or Australia, consult your local Zebra representative</b>	
<b>IrDA</b>	Infra-red port for connection to printers and other devices	<b>NETWORK COMMUNICATIONS</b>	
<b>VOICE AND AUDIO</b>		<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)
<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)	<b>HAZARDOUS LOCATION CERTIFICATIONS</b>	
<b>PERIPHERALS AND ACCESSORIES*</b>		<b>UL Class I, II, III Division 2, Groups A, B, C, D, F, G (Select Configurations Only)</b>	
<b>Communication and Charging Cables</b>	Charge only cable, auto charge cable, USB charge/sync cable, DEX cable, modem adapter cable	<b>RECOMMENDED SERVICES</b>	
<b>Battery Chargers / Cradles</b>	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	<b>Customer Services</b> <b>Service from the Start with Comprehensive Coverage</b>	
<b>Application Specific Attachments</b>	Snap-on magnetic stripe reader		

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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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