



#### **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 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

## **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.

#### **SPECIFICATIONS CHART**

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

		Resolution	4 Mil minimum element width	
PERFORMANCE CHARACTERISTICS		Roll	±35° from vertical	
CPU	Marvell PXA320 @ 806 MHz	Pitch Angle	±65° from normal	
Operating System	All models except MC959B:	Skew Tolerance	±50° from normal	
	Windows Mobile 6.5 (Classic and Professional editions) MC959B: Windows Mobile 6.1	Ambient Light Immunity	Tolerant to typical artificial indoor and natural outdoor (direct sunlight) lighting	
Memory 256MB RAM/1GB Flash			conditions. Fluorescent, Incandescent,	
USER ENVIRONMENT			Mercury Vapor, Sodium Vapor, LED: 450 Ft	
Drop Specification	6 ft./1.8 m drop to concrete across the operating temperature range; meets and exceeds applicable MIL-STD-810G drop specifications	-	Candles (4,844 Lux) Sunlight: 8000 Ft Candles (86,111 Lux) Note: LED lighting with high AC ripple content	
Tumble	2000 3.2 ft./1 m tumbles (4,000		can impact scanning performance.	
Specification	hits) at room temperature; meets and exceeds applicable IEC tumble specifications	Scan Rate	104 (±12) scans/sec (bi-directional)	
		Scan Angle	47° ±3° default; 35° ±3° reduced	
Operating Temperature	-4° F to 122° F/-20° C to 50° C	ZEBRA INTERACTIVE SENSOR		
Storage Temp.	Ambient to -40° F/-40° C	TECHNOLOGY		
	Ambient to 158° F/70° C RH 95%	Motion-sensor	3-axis accelerometer that enables motion-sensing applications for dynamic screen orientation, power	
Sealing	IP67 sealing; meets and exceeds applicable IEC sealing specifications			
Humidity	5 - 95% non-condensing	_	management and free-fall detects	
Vibration	4g's PK Sine (5Hz to 2KHz); 0.04g2/Hz Random (20Hz to 2KHz); 60 minute duration per axis, 3 axis	WIRELESS LAN VOICE AND DATA COMMUNICATIONS		
		Radio	Tri-mode IEEE® 802.11a/b/g	
Thermal Shock	-40° F to 158° F/-40° C to 70° C rapid transition	- Security	WPA2 (Personal or Enterprise); 802.1x; EAP-TLS; TTLS (CHAP, MS-CHAP,	
ESD	±15kv Air discharge, ±8kv direct discharge, ±8kv indirect discharge		MS-CHAPv2, PAP or MD5); PEAP (TLS, MSCHAPv2, EAP-GTC); LEAP,	
Altitude	-1,200 ft. to 12,000 ft. operational; 15,000 ft. shipping		EAP-FAST (TLS, MS-CHAPv2, EAP-GTC); CCXv4 certified; support for IPv6; FIPS 140-2 Certified	
Key and Trigger	1 million presses	Antenna	Internal antenna w/diversity	
Light Immunity	Readability: Incandescent – 450 ft. candles;	Data Rates Supported	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps	
	Sunlight – 8000 ft. candles; Fluorescent: 450 ft. candles	Voice Communications:	Voice-over-IP ready, Wi-Fi™- certified, IEEE 802.11a/b/g direct sequence	
BATTERY		_	wireless LAN,	
Power	PowerPrecision Lithium ion battery 4800 mAh – with State	_	Wi-Fi Multimedia™ (WMM), Zebra Voice Quality Manager (VQM)	
	of Charge and State of Health indicators	REGULATORY	,	
	and State of Health indicators	REGULATORY	,	

3.7 inch color high tion VGA display (640 with digitizer and

y Platform ecture (MPA) 2.0, es the latest -class technology m and enables easy st-effective porting of ations from other mobile computers

#### generation rmance:

ul Marvell PXA320 @ Hz microprocessor, memory footprint and accessible micro-SD

oft Windows Mobile 6. ating system increases perability and security ( ws Mobile 6.5 for ted voice and data s; Windows Mobile 6.1 a-only MC959B model

MAX Sensor tive Sensor ology (IST) offers edge motionbased ations

#### **MAX Locate:**

rts Assisted and omous GPS; SUPL 1.0 ant — enables a lock in challenging where signals are y weak, such as canyons and indoors

#### N:

a/b/g tri-mode radio; ehensive VoIP support 40-2 certification es data security sensitive government ations

#### N:

oth® v2.1 with EDR or wireless connectivity ting business nent

#### **MAX Data** ure:

Multi-mode data capture: industry leading 1D/2D bar

Standby Time	150 hours	Electrical Safety	IEC/UL/CSA/EN 60950-1	code scanning plus 3 megapixel (2048 x 1536) autofocus flash-enabled	
Talk Time	8 hours (minimum/suspend mode)	Environmental	RoHS compliant		
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	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	optional digital color camera with decode and high resolution document capture capability  High quality speakerphone,	
		Wireless Wide Area Network	GSM-HSDPA Global: 3GPP TS 51.010, 3GPP TS 34.121, 3GPP TS 34.123, GCF approved	microphone and receiver f multiple voice modes — handset, headset and speakerphone	
	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 of other parameters, minimum 8 hours of operation		module USA: FCC Part 22, Part 24 Canada: RSS-132, RSS-133 EU: EN301 511, EN301 908 Australia: AS/ACIF S 024 HAC compliant CDMA-EVDO USA: FCC Part 22, Part 24 Canada: RSS-129, RSS-133 HAC compliant NOTE: Data only MC959B model is not HAC compliant	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 WA	WIRELESS WAN VOICE AND DATA		±50° from normal	IEEE 1725 compliance for	
Radio	Modular 3.5G WAN (GSM HSDPA or CDMA EVDO Rev A) MC959B: Modular 3.5G Dual-WAN (GSM HSUPA and CDMA EVDO Rev A)	Ambient Light Immunity	USA: FCC Part 2, FCC OET Bulletin 65 Supplement C Canada: RSS-102 EU: EN 50360 Japan: ARIB STD T56 Australia: Radiocommunications Standard 2003	the entire MC9500-K systen — 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	
Frequency Band	HSDPA: 850, 900, 1800,1900, and 2100 MHz EVDO Rev A: 850 and 1900 MHz	EMI/RFI	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,	world, all from a single console	
WIRELESS PAN DATA AND VOICE COMMUNICATIONS  Bluetooth® Class II, v2.1 with Enhanced Data			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		
Diacioonio	Rate (EDR); integrated antenna; FIPS 140-2 compliant	Laser Safety	IEC Class2 / FDA Class II in accordance with IEC60825-1/EN60825-1		
IrDA	Infra-red port for connection to printers and other devices	For countries outside USA, Canada, European Economic Area, Japan, or Australia, consult your local Zebra representative			
VOICE AND A	UDIO				
Audio	VoWWAN; VoWLAN; rugged audio	NETWORK CO	-		
	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	I/O	USB 2.0 Client (High Speed) or USB 1.1 host (Full Speed); USB (via 1-bay cradle) or Ethernet (via 4-bay cradle)		

data only)

#### **HAZARDOUS LOCATION** PERIPHERALS AND ACCESSORIES\* **CERTIFICATIONS** Communication Charge only cable, auto charge UL Class I, II, III Division 2, Groups A, B, C, D, F, G ( and Charging cable, USB charge/sync cable, Select Configurations Only) Cables DEX cable, modem adapter cable Battery Chargers/ 4-slot battery charger; 1-slot RECOMMENDED SERVICES Cradles battery charger; **Customer Services** 4-bay Ethernet cradle; 4-bay Service from the Start with Comprehensive charge only cradle; single bay USB cradle; vehicle Coverage battery charger using auto charge cable; vehicle cradle with charging capabilities Application Snap-on magnetic stripe reader Specific **Attachments** Soft Goods Rigid and soft case holsters WARRANTY

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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**ZEBRA TECHNOLOGIES** 

<sup>\*</sup> For a complete list of MC9500-K Peripherals and Accessories, please visit www.zebra.com/mc9500k