ZEBRA MC93 HANDHELD

Extremely robust Android mobile computer with touchscreen and keyboard

The Zebra MC9300 handheld is the most robust model in the 9000 series.

With the familiar Android operating system, a larger touchscreen than its predecessors, outstanding processing performance, excellent memory and a long-lasting battery, the device ensures high productivity in the warehouse.

Optional cameras on the front and back and an exceptional scanning range allow versatile use and high accuracy at work. The powerhouse can easily cope even with extreme environments such as deep-freeze rooms.

AT A GLANCE

- Outstanding productivity and maximum comfort thanks to superior ergonomics
- Excellent WiFi range and speed
- Best battery life with PowerPrecision+ battery and quick charge function
- Extremely high-resolution photos and videos for more productivity (optional 13 MP camera on the back)
- Extended industrial scanning functionality and outstanding scanning range, barcodes can be captured from a great distance
- Keyboard and touchscreen for operating older TE apps and newer intuitive, interactive Android apps
- Android 8.1 Oreo
- Maximum robustness

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TECHNICAL SPECIFICATIONS

PHYSICAL CHARACTERISTICS

- **Dimensions**
  9.4 in. L x 3.5 in. W x 7.4 in. H
  240 mm L x 88 mm W x 189 mm H
- **Weight**
  26.9 oz./765g with battery
- **Display**
  4.3" WVGA (800 x 480),!color display
- **Imager Window**
  Corning Gorilla Glass
- **Touchpanel**
  Dual mode capacitive touch with finger, gloved finger or stylus input (conductive stylus sold separately); screen protector (sold separately); Corning Gorilla Glass with air gap (standard model) or optically bonded (freezer model).
- **Backlight**
  LED backlit display
- **Power**
  Rechargeable Li-Ion: 3.6V, 7000mAh,
  (Cold Storage Capacity battery — 5000mAh)
  Both batteries o"er: PowerPrecision+ with improved battery technology for longer cycle times and real-time visibility into battery metrics for better battery management, fast charging (up to 2.4A); hot swap battery backup with temporary session persistence
- **Expansion Slot**
  User accessible MicroSD with 32GB SDHC and up to 256GB SDXC
- **Network Connections**
  USB 2.0 High Speed (Host & Client), WLAN and WPAN (Bluetooth)
- **Notification**
  Audible tone; Multi-color LED bar (between keyboard & display), haptic feedback
- **Keypad**
  Backlit, Field replaceable keypads; 58 Key Alpha-Numeric4, 53 Key Alpha-Numeric STD, 53 Key
  Terminal Emulation (5250 and VT), 43 Key2, 34 Key
  Numeric/Function2, 29 Key Numeric/Calculation4.
- **Voice & Audio**
  Speaker, Microphone, PTT Voice (Internal Speaker and Bluetooth Wireless Headset Support).

CHARACTERISTICS

- **CPU**
  Qualcomm Snapdragon™ 660 Octa-Core, 2.2 GHz
- **Operating System**
  Android 8.1 Oreo with Zebra's Restricted Mode for control over GMS and other services
- **Memory**
  4 GB RAM/32 GB Flash pSLC

USER ENVIRONMENT

- **Operating Temperature**
  Standard: -4°F to 122°F/-20°C to +50°C,
  Cold Storage:2 -22°F to 122°F/-30°C to +50°C
- **Storage Temperature**
  -40°F to 158°F/-40°C to 70°C
- **Humidity**
  Standard: 5% to 95%, non-condensing;
  Cold Storage: 5% to 95%, condensing
  (Condensation-free model with integrated heaters)
- **Drop Specification**
  Multiple 8ft. (2.4m) drops per MIL-STD-810G at room temperature; Multiple 6ft. (1.8m) drops to concrete across the operating temp. range.
- **Tumble Specification**
  2000 3.2 ft. (1m) tumbles (4000 hits); meets and exceeds IEC tumble specifications.
- **Sealing**
  IP67 and IP65 per applicable IEC sealing specifications
- **Vibration**
  4 g's PK Sine (5 Hz to 2 kHz); 0.04 g 2/Hz Random (20 Hz to 2 kHz); 60 minute duration per axis, 3 axis
- **Thermal Shock**
  -40°F to 158°F (-40° C to 70°C) rapid transition
- **Electrostatic Discharge (ESD)**
  ± 15kVdc air discharge; ± 8kVdc direct discharge; ± 8kVdc indirect discharge
- **Interactive Sensor Technology (IST)**
  Ambient Light Sensor Automatically adjusts display & keypad backlight brightness
- **Motion Sensor**
  3-axis Accelerometer with MEMS Gyro

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TECHNICAL SPECIFICATIONS

DATA CAPTURE

- **Scanning**
  SE965:2 1D standard range scan engine
  SE4750 SR: Standard range omnidirectional 1D/2D imaging engine
  SE4750 DP:3 Direct Part Marking (DPM) imaging engine
  SE4850: Extended range 1D/2D imaging engine
- **Camera**
  Front: 5MP fixed focus, 2.0 aperture
  Rear: 13MP autofocus, 2.2 aperture, flash LED generates balanced white light, support torch mode, supports rear camera barcode scanning
- **NFC**
  Tap to Pair, ISO 14443 Type A and B, Felica and ISO 15693 cards, P2P mode and Card Emulation via Host (HCE) support

WPAN

- **Bluetooth**
Class 2, Bluetooth V5.0 with BR/EDR and Bluetooth Low Energy (BLE) Support

WLAN

- **Radio**
  IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/w; Wi-Fi certified;
  IPv4, IPv6, 2x2 MU-MIMO
- **Data Rates**
  5GHz: 802.11a/n/ac — up to 866.7 Mbps
  2.4GHz: 802.11b/g/n — up to 300 Mbps
- **Operating Channels**
  Channel 1-13 (2412-2472 MHz); Chan 36-165 (5180-5825 MHz)
  Channel Bandwidth: 20, 40, 80 MHz
  Actual operating channels/ frequencies and bandwidths depend on regulatory rules and certification agency
- **Security & Encryption**
  WEP (40 or 104 bit); WPA/WPA2 Personal (TKIP and AES); WPA/WPA2 Enterprise (TKIP and AES) - EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC and LEAP, EAP-PWD
  FIPS 140-2 Level 1: Data in Motion and Data at Rest2
- **Multimedia**
  Wi-Fi Multimedia (WMM and WMM-PS; Including TSPEC)
- **Certifications**
  WFA (802.11n, WMM-PS, 802.11ac, PMF, WMM-AC, Voice Enterprise, WiFi Direct and WPS 2.0)
- **Fast Roam**
  PMKID caching; Cisco CCKM; 802.11r; OKC