# EM45 Enterprise Mobile

## Zebra EM45 — Built for Work. Designed for You.

Zebra EM45 Enterprise Mobile combines the power of Zebra with the sleek, ergonomic feel of a consumer device, delivering unmatched productivity and flexibility to your frontline. With its lightweight and slim design, EM45 is perfect for field sales, drivers, store managers, and others — providing instant communication over 5G and Wi-Fi 6E, along with the flexibility to seamlessly integrate with enterprise solutions powered by Zebra. With the power to unlock AI capabilities, a cutting-edge processor, fast memory, and a high-performance camera, EM45 delivers a fast, reliable experience. A battery with up to 25 hours of life supports your workforce all day long, while enterprise-level security and authentication protect your operations. Plus, Zebra DNA software suite simplifies setup, deployment and device management, reducing IT complexity because all your devices can now run on a Zebra common enterprise platform. From retail to field services and healthcare to transportation and logistics, companies already trust Zebra — now they can unlock even greater potential to empower their enterprise workforce. Zebra EM45 — built for work. Designed for you.

## Sleek, ergonomic and personalized

Enjoy the lightweight sleek design in EM45, with enterprise-ready features wrapped into consumer style ergonomics.

**Everything looks better on EM45**
The large 6.7 in. Full High Definition display makes work easier — workers see more and scroll less. A dynamic 120Hz refresh rate makes the display extraordinarily responsive, providing a superior user experience. Bright screen is easy to see in any lighting. Water droplet rejection prevents accidental activation when wet. The oleophobic coating prevents smudges, despite constant interaction with the screen. And the touchscreen supports gloves — ideal for workers in the field.

**Go ahead, drop it**
EM45 is built to withstand the durability test of time. It's drop-tested, tumble-tested, waterproof and able to withstand extreme temperature swings. The result is a device built to last for years — with an enterprise-grade return on investment.

**High-performance camera ready for any task**
The 50MP rear HDR camera with Optical Image Stabilization (OIS) captures richly detailed photos and 4K video — and more details means more business intelligence. Users are automatically alerted when the lens is dirty and needs cleaning or prompted to retake an image with higher quality. Faces can be automatically blurred to protect privacy. Integrated software with advanced algorithms enables fast and easy capture of barcodes — regardless of symbology or condition. And the 8MP front camera enables video calls to enrich collaboration.

## Boost productivity on-the-go

**Three programmable action buttons**
Two side buttons and one top button are programmable, allowing easy access to three of the most used applications with a simple push.

android enterprise recommended

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**For more information, please visit www.zebra.com/em45**

**A workstation – anywhere you need it**

Effortlessly convert your EM45 into a workstation - just dock it into Workstation Connect Cradle[1]. Included with your Zebra DNA Enterprise license, it's perfect for data-intensive tasks, eliminating the need to buy and manage PCs and desktop computers.

**Comprehensive connectivity options**

With 5G and Wi-Fi 6E your workers get the fastest and most reliable wireless connections available to keep the flow of work moving no matter where your workers are — inside your facility or out in the field.

**Collaborate over Wi-Fi and cellular**

Easily add powerful communication tools with Zebra Workcloud Sync. Enable cost-effective 2-way push-to-talk and secure RCS text messaging over Wi-Fi and cellular networks. And turn EM45 into a PBX handset with a customized interface that brings push-button simplicity to even the most complex telephony features.

**Enterprise device security — and personal data privacy**

EM45 is the ideal corporate owned personally enabled (COPE) device: enterprise information is secure and user personal content remains private. EM45 offers dual SIM and dual corporate profile separation for seamless user experience.

**Unlock advanced AI capabilities with EM45**

The robust System-on-Chip (SOC) with a dedicated neural processing unit (NPU) provides the power to make advanced AI capabilities a reality for on-the-go workers. You can run small language models for translation or transcription; utilize AI vision models to examine shelves, products, labels, and text; 3D measurement tools; and enable generative AI assistants.

**A battery that lasts and lasts**

The 4,750mAh battery powers over up to 25 hours of use. With fast charging, you can boost your battery from zero to 50% in just 30 minutes. And advanced device settings are pre-configured to enhance both performance and battery life[2].

## Unlock the Power of Enterprise Device Software

Transform your operations with Zebra DNA, offering over 20 applications that add unparalleled value to your EM45. Simplify tasks for your front-line workers and elevate productivity with these innovative solutions. Discover five standout applications designed to meet your business needs and enhance ease of use.

**Streamline Device Setup and Management**

Utilize StageNow via Zebra DNA Cloud to effortlessly enroll devices into a third-party EMM, managing them from a single interface. For those not using a third-party EMM, enroll directly into DNA Cloud to unlock powerful features for Mobile Computers, allowing seamless configuration, updates, and application management through a single Zebra GUI.

**Enhance Productivity with Secure Access**

Control user interface and access to applications on Zebra devices with Enterprise Home Screen, ensuring consistent and secure usage to maximize efficiency.

**Enterprise-level security**

On-device fingerprint and facial recognition features ensure only authorized users can unlock the device and access information – at home or at work. Or, centrally control multi-factor authentication — including facial recognition, 3rd party Single Sign On (SSO), pin and a barcode scan — with Zebra's Identity Guardian[3].

**Protect Your Investment**

Device Guardian enables easy location and recovery of lost or missing Zebra EM45s, supported by dashboard productivity reporting to safeguard your assets.

**Increase device security**

Keep your devices secure every day they are in service with LifeGuard™ for Android™ [4]. Restrict apps and device features with Enterprise Home Screen.

## Unmatched value with Zebra OneCare maintenance plans

Extended sales and support cycle will ensure your EM45 fleet gets enough time to deploy and keep secure with updates and maintenance. Keep your devices looking like new and minimize downtime with your choice of maintenance plans. Zebra OneCare Essential offers basic coverage with 8x5 support and a 3-day repair time, while Zebra OneCare Select provides 24x7 support and same-day overnight replacement of a ready-to-use device, with all apps and settings pre-loaded. Both plans cover accidental damage and normal wear and tear — and unlimited battery replacement. And the dashboard in VisibilityIQ OneCare makes it easy to keep track of all devices in the repair cycle.

# Specifications

## Physical Characteristics

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| Dimensions | 6.72 in L x 3.17 in W x .42 in D (170.65mm L x 80.54mm W x 10.7mm D) |
| Weight | 8.57 oz (243g) (with battery) |
| Display | 6.7 in color Full High Definition+ (2400 x 1080); LED backlight; dynamic 120Hz refresh rate |
| Touch Panel | Multi mode capacitive touch with bare or light gloved fingertip input; water droplet rejection, Oleophobic coating |
| Power | Service replaceable; rechargeable Li-Ion, PowerPrecision for real-time battery metrics; Standard Capacity: 4,750mAh/18.43Wh |
| Expansion Slot | User-accessible MicroSD card; supports up to 2 TB |
| SIM | Dual SIM (single Nano SIM and eSIM) |
| Network Connections | WWAN; Wi-Fi, Bluetooth and NFC |
| Notifications | Audible tone; vibration |
| Keypad | On-screen keypad |
| Voice and Audio | Two microphones with noise cancellation; HAC compliant (North America); Dual Stereo speakers for loudness; High Quality stereophonic speaker phone; Bluetooth wireless headset support; PTT headset (Zebra USB-C) support; HD VoIP, Voice and Multimedia, supporting Super-wideband (SWB), Wideband (WB) and Full band (FB) |
| Buttons | Volume up/down; Power (fingerprint biometrics). Programmable action buttons: Left - default to scan; Right - default to PTT; Top - default to camera |
| Interface Ports | USB 3.1 (Bottom Type C) — SuperSpeed (host and client); OTG/host charging mode |

## Performance Characteristics

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| CPU | Qualcomm® 5430 Octa-core, 2.2 GHz |
| Operating System | Android; for supported Android versions, visit: www.zebra.com/android-versions |
| Memory | 8 GB DDR5 RAM/128 GB UFS3.1 Flash |

## User Environment

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| Operating Temperature | +32F to +122F (0C to +50C) |
| Storage Temperature | -40F to +158F (-40C to +70C) |
| Humidity | 5% — 95% non-condensing |
| Drop Specification | 5 ft (1.5m) to tile over concrete across temperature (0C to +50C/+32F to +122F) with protective boot exceeding MIL-STD-810H;<br>Multiple 4 ft (1.2m) to tile over concrete across temperature (0C to +50C/+32F to 122F) exceeding MIL-STD 810H |
| Tumble Specification | 600 1.6 ft (0.5m) tumbles for device with protective case; 300 1.6 ft (0.5m) tumbles for device (1.6 ft/0.5m) |

## Data Capture

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| Scanning | Camera-based scanning, leveraging Zebra's advanced decoder library for accurate and efficient data capture — complimentary with the device |
| Camera | Rear: 50 MP, Auto focus, OIS; ƒ/1.9, Video Recording Resolution: UHD 4K (3840x2160) @30fps, Front: 8 MP, ƒ/2.0, Video recording 1080P@30fps |
| NFC | ISO 14443 Type A and B; Sony FeliCa[5] and ISO 15693 cards; Card Emulation via Host; Contactless payment support; ECP1.0 and ECP2.0 polling support; Apple VAS certified |

## Wireless LAN

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| WLAN Radio | IEEE 802.11 a/b/g/n/ac/ax/d/h/i/r/k/v/w/mc; 2x2 MU-MIMO; Tri-band (2.4 GHz, 5 GHz, 6 GHz); Wi-Fi CERTIFIED 6™ (Wi-Fi 6E); Dual Band Simultaneous; IPv4, IPv6 |
| Data Rates | 2.4 GHz: 802.11b/g/n/ax — 20 MHz - up to 286.8 Mbps; 5 GHz: 802.11a/n/ac/ax — 20 MHz, 40 MHz, 80 MHz, 160 MHz - up to 2402 Mbps; 6 GHz: 802.11ax — 20 MHz, 40 MHz, 80 MHz, 160 MHz — up to 2402 Mbps |
| Operating Channels | Channel 1-13 (2401-2483 MHz): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13; Channel 36-165 (5150-5850 MHz): 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144, 149, 153, 157, 161, 165; Channel 1-233 (5925-7125 MHz); Channel Bandwidth: 20, 40, 80, 160 MHz;<br>Actual operating channels/frequencies and bandwidths depend on regulatory rules and certification agency |
| Security and Encryption | WPA3 Enterprise 192-bit mode (GCMP256) — EAP-TLS; WPA3 Enterprise, AES-CCMP-128 — EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC, LEAP, EAP-PWD; WPA3 Personal (SAE), AES-CCMP-128; WPA/WPA2 Enterprise, TKIP and AES-CCMP-128; WPA/WPA2 Personal (PSK), TKIP and AES-CCMP-128; Enhanced Open (OWE), AES-CCMP-128; WEP 40 bit and 104 bit; WAN device only: EAP-SIM, EAP-AKA, EAP-AKA Prime |
| Certifications | Wi-Fi Alliance Certifications: Wi-Fi CERTIFIED n; Wi-Fi CERTIFIED ac; Wi-Fi CERTIFIED 6 (Wi-Fi 6E); WPA2-Personal; WPA2-Enterprise; WPA3-Personal; WPA3-Enterprise (includes 192-bit mode); Protected Management Frames; Wi-Fi Enhanced Open; WMM (Wi-Fi Multimedia); WMM-Power Save; WMM-Admission Control; Voice-Enterprise; Wi-Fi Direct; Wi-Fi Agile Multiband; Wi-Fi QoS Management; Wi-Fi Optimized Connectivity; Passpoint |
| Fast Roam | 802.11r Fast BSS Transition; PMK Caching; Cisco CCKM; OKC |

## Wireless WAN

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| Radio Frequency Band[6] | North America: 5G FR1: n2/5/7/8/12/13/14/25/26/29/30/38/41/48/66/71/77/78; 4G: B2/4/5/7/8/12/13/14/17/25/26/29/30/38/41/48/66/71; 3G: B2/4/5<br>Rest of World: 5G FR1: n1/2/3/5/7/8/20/26/28/38/40/41/66/71/77/78; 4G: B1/2/3/4/5/7/8/13/17/18/20/26/28/38/39/40/41/42/43/66/71; 3G: B1/2/4/5/6/8/19; 2G: 850/900/1800/1900<br>Dual SIM/Dual Standby, VoLTE, Gigabit LTE-A, 5G NR Sub-6 (NSA, SA), LTE/NR Carrier Aggregation, Supports private 5G/LTE; CBRS |

## Markets and Applications

**Retail**

• Inventory management
• Assisted selling
• In-store communications/collaboration

**Logistics and Field Service**

• Parcel tracking
• Proof of delivery
• Maintenance/inspections
• Equipment identification
• Work order management
• Collaboration

**Transportation/Airlines**

• Passenger ticketing, check-in, boarding and gate-side bag check
• Passenger manifest check
• Food/inflight sales

**Hospitality**

• Event management
• Access control
• Lead capture
• Cashless payment
• Collaboration

**Healthcare**

• Patient tracking
• Medical equipment tracking
• At-home care

## User Environment

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| Sealing | IP68 and IP65, with battery per applicable IEC sealing specifications |
| Vibration | Sine: 4 g's peak, 5hz to 2khz; Random:0.04 $g^2$/hz, 20hz to 2khz |
| Thermal Shock | -40F to +158F (-40C to +70C) |
| Electrostatic Discharge (ESD) | +/-15 kV air discharge, +/-8 kV direct discharge; +/-8 kV indirect discharge |

## General Certifications

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| Google ARCore certified; Android Enterprise Recommended (AER) certified, AT&T/Verizon certified |

## Interactive Sensor Technology (IST)

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| Motion Sensor | 3-axis accelerometer with MEMS Gyro |
| Light Sensor | Automatically adjusts display backlight brightness |
| Proximity Sensor | Automatically detects when the user places the device against head during a phone call to disable display output and touch input |
| Magnetometer | eCompass to detect direction |
| Pressure Sensor | Altitude detection for locating |

## Wireless WAN

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| | (available only in the US) |
| GPS | GPS, GLONASS, Galileo, Beidou, QZSS; Dual-Band GNSS — concurrent L1/G1/E1/B1; (GPS/QZSS, GLO, GAL, BeiDou) + L5/E5a/BDSB2a (GPS/QZSS, GAL, BeiDou); a-GPS; supports XTRA |
| Multimedia | Wi-Fi Multimedia™ (WMM) and WMM-PS; Including TSPEC |

## Wireless PAN

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| Bluetooth | Class 1, Bluetooth v5.3; Classic Bluetooth(BR/EDR) & Bluetooth LE |

## Environmental Compliance

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| RoHS Directive 2011/65/EU; Amendment 2015/863; REACH SVHC 1907/2006 For a complete list of product and materials compliance, please visit: www.zebra.com/environment |

## Warranty

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| Subject to the terms of Zebra's hardware warranty statement, EM45 is warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For the complete warranty statement, please visit: www.zebra.com/warranty |

## Recommended Services

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| Zebra OneCare™ Essential and Select; Zebra VisibilityIQ Foresight™; Professional Services Gold Build |

## Footnotes

1. Workstation Connect available in 2H 2025 requires a separate Workstation Connect Cradle accessory, sold separately.
2. Battery life is estimated based on average performance under typical usage conditions. Actual battery life may vary significantly and is dependent on individual usage and settings.
3. Identity Guardian facial recognition and 3rd party SSO features require the purchase of a license.
4. Requires a Zebra OneCare maintenance contract.
5. According to ISO/IEC 18092 (Ecma 340) standard.
6. Actual band support may vary by country or carrier. For more details, please contact www.zebra.com/technicalsupport

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