

EC50 Enterprise Mobile Computer

A new category of individually assigned WiFi enterprise mobile computers

Introducing the thinnest, lightest Zebra mobile computer yet — the EC50 WiFi enterprise mobile computer. Designed to be individually assigned to workers, these devices are always at their fingertips, ready to work whenever and wherever your workers are. You get the best of all worlds — the great smartphone look and feel workers want in their business device, the durability for all-day everyday business, plus all the business features your workers need to drive personal productivity, collaboration and device value to a new high. Mobility DNA tools take ease-of-use, device security and device manageability to a new level. It's ready for the future with support for payment options and RFID. You get extreme flexibility — in just seconds, the same device that slips into a pocket can turn into a full workstation, a gun-style device that brings extreme comfort to scan intensive tasks, and a two-way radio or a PBX handset for better collaboration via voice and text. The ability to purchase these devices for four years eliminates the complexities of managing different models with different platforms. And the optional gold standard in support is available to keep your devices up, running and in the hands of your workers. The EC50 — the individually assigned smartphone-style enterprise mobile computer that's all business.



A game changing increase in individual productivity

Get real pocket-power with true smartphone-style ergonomics

With its sleek smartphone styling, the EC50 easily fits in a pocket or a wearable accessory. It's always available, ready to provide workers with whatever they need to get the job done.

Application performance that never keeps you waiting

Get wired-style voice and data application performance with the ultra-powerful advanced SD660 octa-core processor.

Android for instant familiarity — and virtually no learning curve

Android 10 delivers all the benefits of the latest version of Android, and your workers get a device they already know how to use — virtually eliminating training time and adoption curves.

Do more with more wireless connections

Stay connected with unmatched, fast and dependable 'wired-quality' WiFi connections that deliver near instant application response times with Zebra's Fusion, 2x2 MU-MIMO support and WorryFree WiFi. Get better Bluetooth peripheral performance with Bluetooth 5.0, which offers twice the speed and four times the range, all with less power. And with integrated Bluetooth and NFC, just tap to read ID cards; pair a printer, and in the near future, complete a purchase.

Power every minute of every workday

Choose the standard battery for about 12 hours of power or an extended battery for around 16 hours of power — plenty to power the longest workday.

Better productivity with a large 5 in. HD screen

The large screen provides plenty of space for information, while multi-touch support allows workers to intuitively interact with applications.

Enterprise-class data capture

The optional built-in scanner enables the capture of virtually any barcode in any condition, including Digimarc. And the 13 MP color rear camera makes it easy to capture detailed photos and videos to document proof of condition, proof of return and more.

Boost individual productivity with the EC50 — the individually assigned enterprise mobile computer that's all business.

For more information, visit www.zebra.com/ec50

Real business durability

The 'work-worthy' design is virtually waterproof, drop-proof and dust-proof. Corning Gorilla Glass brings maximum scratch-and-impact resistance to two of the most vulnerable device components — the touchpanel and scanner exit window. And the optional protective case provides additional protection if the device is dropped.

Better connect your teams with ready-to-use voice solutions

With Workforce Connect PTT Express, your workers are always just the press of a button away, able to place and receive crystal clear PTT calls over your WiFi network — no extra infrastructure to purchase. Do you want to connect workers indoors and outside? Just activate a PTT Pro subscription and your workers will be up and running in as little as a day. Want your EC50 devices to double as PBX handsets? With Workforce Connect Voice, you can easily create a custom interface that makes it easy to execute even the most complex telephony functions.

Accessorize for success

Just place the EC50 into the powerful workstation cradle to instantly transform the EC50 into a full workstation, complete with a monitor, keyboard, mouse and more. Or, keep the EC50 right at your fingertips with the holster or hand strap.

Enterprise-ready Mobility DNA — the most evolved and extensive suite of software improves practically every aspect of the EC50**Give your workers the easiest data capture experience**

With DataWedge, your workers can capture barcodes, photos and NFC data and automatically send properly formatted information to any existing application — no coding required. With Multi-Barcode Scanning, workers can capture multiple barcodes on an item with the single press of the scan button — no more cumbersome and time-consuming covering up unwanted barcodes. To make scanning even easier, workers can put a virtual 'soft' scan button right on the display in the area of their choice with Swipe Assist. And five optional soft keyboards let your workers choose the layout that enables the fastest and easiest data entry with Enterprise Keyboard.

Improve device and network security — quickly and easily

Turn Android into a true business-class operating system with over 100 additional features that improve security and more with Mobility Extensions (Mx). Choose the features and applications your users can access on your devices with Enterprise Home Screen. Eliminate theft and shrinkage with Device Tracker, a Mobility DNA tool that allows you to easily find lost and misplaced devices, even if the device is powered down. LifeGuard™ for Android™² makes OS security updates easy — schedule and update your devices over

the air, via your supported EMM/MDM. And you can easily monitor the status of your OS updates on an easy-to-use dashboard.

Drive device management time and cost to a new low

With StageNow, you can prepare a handful or hundreds of devices for use with the right settings, configurations and applications, all with the simple scan of a barcode or tap on an NFC tag. With StageNow's Restricted Mode, a simple click deactivates the Google Mobile Services (GMS) that come standard with Android, improving device privacy — and you can easily reactivate at any time. PowerPrecision Console helps easily identify and remove aging batteries that can no longer hold a full charge — before they cause expensive workforce downtime. And Device Diagnostics rapidly tests all EC50 main systems to determine whether the device can be fixed on site or needs a trip to the Zebra Repair Center. The result? Your devices spend less time needlessly out of service, helping your workforce give your customers a better experience — and improving device TCO.

Unmatched total benefit of ownership**Multi-year deployment and support**

While the EC50 looks like a smartphone, the similarities stop there. The purpose-built for work EC50 is guaranteed to be available for sale for four years, versus 18 months for the typical smartphone — eliminating the complexities and cost of managing different models with different platforms. And product support is available for a total of eight years — the four years the product is for sale and an additional four years post sale period.

The power of a common Android platform

The EC50 expands Zebra's portfolio of enterprise-class Android mobile, vehicle and tablet computers — already considered one of the world's largest. The shared portfolio platform — including the OS, APIs and Mobility DNA tools — simplifies device management, application portability and IT support, very unlike smartphones, with platforms that typically change with each model.

Industry-leading security support for Android

Zebra's LifeGuard for Android comes standard with every Zebra OneCare support agreement, providing fully-controllable security updates for up to eight years. Google provides updates to a specific version of Android for about three years, with automatic updates that take place before you might have a chance to ensure there are no device or application incompatibilities.

Cut total cost of ownership (TCO) in half

The EC50 enterprise-class device may cost more up front than consumer smartphones — but in the long run, simplified management, long lifecycles and tools that boost productivity can cut your TCO in half.³

EC50 Specifications

| Physical Characteristics | |
|-------------------------------------|---|
| Dimensions | 6.08 in. L x 2.99 in. W x 0.377 in. D 154.5 mm L x 76 mm W x 9.6 mm D |
| Weight | 6.1 oz./173 g to 6.46 oz./183 g (SKU dependent with standard battery) |
| Display | 5 in.; HD (720x1280) |
| Imager Window | Corning® Gorilla® Glass |
| Touch Panel | Corning® Gorilla® Glass; capacitive touch panel; multi-touch |
| Backlit | 450 NITS, LED |
| Power | Standard battery: 3060 mAh/11.78 Wh; TYP. Extended battery: 4180 mAh/16.09 Wh TYP. |
| Expansion Slot | 1x Micro SDCard |
| Network Connections | WLAN, USB-Ethernet |
| Notifications | Audible tone; multi-color LEDs; vibration |
| Keypad | On-screen keypad and enterprise keyboard |
| Voice and Audio | 1 watt speaker, receiver, PTT, voice support, 3 digital microphones, USB Type-C headset support |
| Buttons | Programmable; scan on each side; volume up/down; power; push-to-talk (PTT) |
| Interface Ports | Bottom USB 2.0 OTG - host/client (Type-C), SKU dependent: 0, 2, or 8 pin rear connection |
| Performance Characteristics | |
| CPU | Qualcomm SD660, 2.2 GHz Octa-core |
| Operating System | Android 10; upgradeable through Android 11/R*; Zebra's Restricted Mode for control over GMS and other services (* Support for future Android OS releases past A11/R are subject to Qualcomm validation.) |
| Memory (RAM/Flash) | 3 GB/32 GB; 4 GB/64 GB |
| User Environment | |
| Operating Temp. | 14° F to 122° F/-10° C to +50° C |
| Storage Temp. | -40° F to 158° F/-40° C to +70° C |
| Humidity | 5% to 95% Non-condensing |
| Drop Specification | 4 ft./1.2 m per MIL-STD-810G. With protective boot: 5 ft./1.5 m per MIL-STD-810G to concrete across temperature range |
| Tumble Specification | 300 1.6 ft./0.5 meter tumbles at room temperature without protective boot 500 1.6 ft./0.5 meter tumbles at room temperature with protective boot |
| Sealing | IP67 |
| 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 |
| Electrostatic Discharge (ESD) | +/-15kVdc air discharge; +/-8kVdc direct discharge; +/-8kVdc indirect discharge |
| Interactive Sensor Technology (IST) | |
| Light Sensor | Automatically adjusts display backlight brightness |
| Motion Sensor | 3-axis gyroscope, 3-axis accelerometer |
| Proximity Sensor | Automatically disables touch panel and turns off display in Handset mode (voice calls) |

| Data Capture | |
|--|--|
| Scanning | SE4100; 1D/2D omnidirectional imager |
| Camera | Front — 5 MP fixed focus; f/2.0 aperture Rear — 13 MP autofocus; f/2.0 aperture; flash LED |
| NFC | ISO 14443 Type A and B; FeliCa and ISO 15693 cards; P2P mode and Card Emulation via Host |
| Wireless LAN | |
| Radio | IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w/mc; Wi-Fi™ certified; IPv4, IPv6, 2x2 MU-MIMO; soft AP |
| Data Rates | 5 GHz: 802.11a/n/ac — up to 866.7 Mbps 2.4 GHz: 802.11b/g/n — up to 300 Mbps |
| Operating Channels | Channel 1-13 (2412-2472 MHz); Channel 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 and 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 |
| Certifications | Wi-Fi™ certified |
| Fast Roam | PMKID caching; Cisco CCKM; 802.11r; OKC |
| Multimedia | Wi-Fi Multimedia™ (WMM) and WMM-PS |
| Wireless PAN | |
| Bluetooth | Class 2, Bluetooth v5.0, Bluetooth Low Energy (BLE); secondary Bluetooth BLE beacon for finding lost (powered off) devices |
| Warranty | |
| Subject to the terms of Zebra's hardware warranty statement, the EC50 is warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For complete warranty statement, go to: http://www.zebra.com/warranty | |
| Recommended Services | |
| Zebra OneCare® Essential and Select: Maximize Zebra device availability, device value and operational efficiency with these fully-featured support services that set the industry bar for support. | |
| Zebra VisibilityIQ™ Services: Improve device value with Zebra's optional VisibilityIQ Services. VisibilityIQ gives the data-driven, actionable insight to get the most from your devices, workers and daily tasks. VisibilityIQ Foresight aggregates big data onto a single, color-coded, cloud-based pane of glass, translating it into actionable insight to streamline workflow. VisibilityIQ DNA provides a view into key DNA tools, and VisibilityIQ OneCare cloud-based dashboard offers visibility into repairs, tech support, software security status and more. | |
| Footnotes | |
| 1. Zebra's 'ultimate series' mobile devices all share the same SD660-based platform, which includes most of today's most advanced mobility features. Zebra's platform strategy enables businesses to select the right device for various use cases, without complicating device management. | |
| 2. LifeGuard is included with every Zebra OneCare support agreement. | |
| 3. Total Cost of Ownership Models for Line of Business Mobile Solutions, Enterprise Mobility, VDC Research Group, December 2018 | |

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Markets and Applications

Retail

- Customer-facing use cases
- Information lookup
- Assisted selling
- Inventory and cycle counts
- Put-away and replenishment
- Price check/item lookup
- Task assignment and management
- Picking and Collecting
- Personal device
- Shipping and receiving
- Asset management
- Mobile POS

Hospitality

- Concierge service
- Luggage verification
- Event verification
- Reservation verification
- Badge scan
- Payment facilitation

Healthcare Ancillary Services

- Patient transportation
- Meal delivery
- Sanitation
- Housekeeping

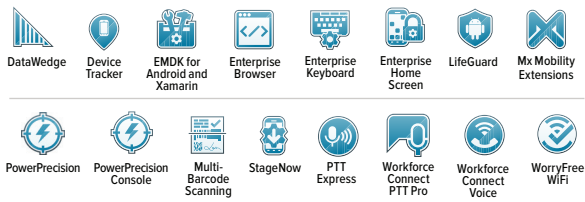
PRODUCT SPEC SHEET

EC50 ENTERPRISE MOBILE COMPUTER

Mobility DNA

Mobility DNA solutions help you get more value out of our mobile computers by adding functionality, as well as simplifying deployment and management of our mobile devices. For more information on these Zebra-only features for our mobile devices, please visit: www.zebra.com/mobilitydna

Mobility DNA is available on Android only. Features may vary by model and a Support Contract may be required. To learn what solutions are supported, please visit: <https://developer.zebra.com/mobilitydna>



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