

MC3400/MC3450 Mobile Computer

These mobile computers are built to withstand the toughest environments and today's requirements. Now they have a more powerful computing platform, advanced scanning solutions, and Wi-Fi 6E and 5G connectivity.

Introducing the next generation of the MC3000 series of push-button mobile computers with the MC3400 and MC3450. You are offered devices in two form factors: direct targeting and pistol type. Mobile computers are equipped with the latest features to enable your employees to cope with the ever-increasing demands of today's e-commerce. Computing capabilities have increased by 2.5 times, which is necessary for the operation of the most resource-intensive applications. Employees will always be connected with Wi-Fi 6E, 5G and private 5G networks. An improved keypad makes it easier to enter information, a more robust design increases reliability, and an expanded range of data reading options makes the devices more versatile in use. With Zebra DNA Software Suite, you have new capabilities to increase security, simplify device discovery and more, while Zebra Services make it easy to use, repair, monitor and manage devices from the point of purchase and throughout their lifecycle.



Maximizing Staff Productivity

Your employees will always be connected, no matter where they are.

Support for Wi-Fi 6E and 5G public and private networks provides users with fast and reliable wireless connectivity: on the factory floor, anywhere in the warehouse, port or loading dock. The ability to use a physical nano SIM card and an eSIM ensures that the device operates on two networks.

Choosing the Right Scanning Solution for Your Applications

Different scanners are required to perform different tasks. If you need to read standard barcodes, choose the SE4710 one- and two-dimensional barcode scanning engine.

Do you need to scan barcodes, documents and take photos outdoors even in bright sunlight? Then choose the SE4770 to read one- and two-dimensional codes. Do you need to scan at different distances? With extended range and IntelliFocus™ technology for scanning one- and two-dimensional barcodes, the SE55 allows you to scan barcodes from handheld items and on the topmost racks in the warehouse up to 12.2 m/40 ft. If you need to scan up to 30.5 m/100 ft., use the SE58's Extended Range Scanning Engine. It is the ideal solution for reading one- and two-dimensional codes on containers in ports and loading docks. All scanner options provide instant first-time capture of virtually any barcode, regardless of its condition.

Faster, easier and more accurate information entry – even with gloves on

Data entry is easier with larger keys and more space between them. This increases productivity levels and reduces input errors. You can choose the keypad that best suits the type of data your employees are typing: 47, 38, and 29-button panels are available.

All models are equipped with high-resolution cameras on the front and rear

All device models now come with a 5MP camera on the front. The 13 MP camera on the back, which was previously only available in the direct aiming model, is now also installed in a pistol-style device. Employees can now use video to resolve issues faster, to record damage to goods at the acceptance stage, or to read documents such as bills of lading or return receipts. These features are available regardless of the device model you choose.



MC3400/MC3450 – Designed to meet the increasing demands of today's economy.

For more information, visit the www.zebra.com/mc3400-mc3450 website

Access to devices is guaranteed only to authorized users

With Identity Guardian, users have near-immediate access to devices. This feature provides secure access using biometric facial recognition using the camera on the front panel. APIs make it easy to integrate into applications developed in your organization.

Advanced Platform Delivers Maximum Lifecycle and Fast Time to Value

There are enough resources to run almost any application

The Qualcomm® 4490 processor provides almost 2.5 times more computing resources, guaranteeing excellent application performance, and 50% more RAM and four times more flash memory provide an incredibly large amount of memory for data storage and multitasking.

Guaranteed support for future versions of Android

With support for future versions of Android™, you can be confident that the devices you buy today will reliably support the functionality of the next versions of the Android OS in the future.

A more rugged and reliable device for maximum uptime

The MC3400 and MC3450 are the MC3000 series' most rugged devices that have been dropped and shock tested, and are protected against dust and water. These devices can withstand submersion in water and exposure to water jets.

Easy migration from the MC33 series

Because the look and feel of the new mobile computers are almost identical to those of the previous MC33 series, your users will be able to get started with the MC3400 and MC3450 right away, with little to no training required to start using the new devices right away. In addition, compatibility with accessories for the MC33 series devices currently in use, including charging stations and batteries, means that the transition to new mobile solutions will require minimal costs.

Your terminal emulation applications are ready to work without additional configuration

With the pre-licensed Ivanti Velocity software pre-installed on each model, your text-based applications can run out of the box. The devices are also pre-installed with SmartTE from Staylinked. With this software, text-based applications can be easily transformed into modern touchscreen applications to improve staff efficiency and quality.

Designed for many tasks with ready-to-use solutions

Empower Devices with Zebra's Easy-to-Use DNA Tools

The Zebra DNA suite of software tools makes it easy to own Zebra mobile devices, and many of these tools are provided free of charge.

Enhance Device Usage and Management – Save Users and IT Time Zebra DNA tools can be managed through the Zebra DNA Cloud. It is a user-friendly portal for easy licensing, configuration, and placement of devices. You can integrate Zebra DNA Cloud into your Enterprise Mobility Management (EMM) or as a standalone application.

Find Lost Devices

The BLE battery works with the Device Tracker feature to help you quickly and easily find forgotten or lost devices, regardless of whether the device is powered off or the battery is low.

Job management made easy

Workcloud Task Management is Zebra's ready-to-use solution that enables you to prioritize and direct work orders in real time. Tasks can be automatically distributed equally among employees, and tasks can also be sent to the most experienced employee, taking into account the location, skills or position held.

Ensure excellent staff collaboration

With Zebra Workcloud Communication, you can connect everyone on your team instantly. The MC3400 and MC3450 can be used as a walkie-talkie via Wi-Fi or cellular networks. Mobile computers can also be used as telephony devices in a corporate PBX thanks to a customizable interface that makes it easy to use even the most complex telephony functions. In addition, you have access to securely and trackable text messaging.

Maximum device uptime increases return on investment

Zebra OneCare Select - Access to Round-the-Clock Support

With Zebra OneCare Select Support Contract, your devices are always in the hands of your employees. You get comprehensive coverage – if the device breaks, we will fix it. The availability of a support specialist 24/7 ensures you get help when you need it. There is no need to wait for the return delivery of the devices: the almost new ready-to-use replacement device will be delivered the very next day. This will include the apps you need, the OS version, network configuration settings, and more. LifeGuard for Android offers timely OS protection updates, so your devices will be reliably protected every day. You can also choose a support plan based on the options you need. For example, you can select Battery Maintenance so you don't have to worry about the health of the batteries used in your devices.

Halving Zebra Device Management Costs

With Zebra VisibilityIQ Foresight, you can spend less time managing your devices while still having access to more information about the status and usage of your devices and batteries. All this data is displayed on one dashboard. With this information, you can proactively predict and prevent device issues before they cause downtime. Powerful predictive analytics help you plan for seasonal changes and ensure optimal device utilization, minimizing total cost of ownership and maximizing the return on your Zebra device investment.

Specifications

Physical Specifications

Dimension	Direct Aim Model: 8.2" (L) x 2.9" (W) x 1.5" (H) (208.5 mm (L) x 73.5 mm (W) x 37.1 mm (H)) Pistol Model: 8.2" (L) x 2.9" (W) x 6.5" (H) (208.5 mm (L) x 73.5 mm (W) x 165.3 mm (H))
Mass	Direct Aim Model: 15.6oz .442g Pistol Model: 18.6oz./528g
Display	4" WVGA (800 x 480), Color Display, Standard: 350 nits (typical), Extended/Full: 600 nits (typical)
Imager window	Corning® Gorilla® Glass
Touch panel	Capacitive touchscreen with dual modes of operation, finger, gloved finger, or stylus input (conductive stylus sold separately); Corning Gorilla Glass with optical coupling
Nutrition	Standard rechargeable lithium-ion battery: 3.6 V, 7000 mAh (25.20 Wh); Optional, BLE 3.6 V Li-ion battery, 7000 mAh (25.2 Wh); Hot-swappable battery function with temporary storage of the working session
Expansion slot	Supports up to 2TB MicroSD
SIM cards	MC3450 only: 1 nano SIM; 1 eSIM
Network Connections	MC3400/MC3450: WLAN, WPAN (Bluetooth), USB 2.0, High Speed (Host and Client); MC3450 only: WWAN 5G, data only
Notifications	Beep, color LEDs (2), haptic feedback
Keyboard	Numeric (29 keys), Function Numeric (38 keys), Alphanumeric (47 keys)
Voice and Audio	Speaker, microphone, walkie-talkie voice (PTT Voice, support internal speaker and Bluetooth wireless headset, USB-C headset)
Buttons	Scan activation button (pistol model); Keypad scan button, side scan activation buttons (direct aiming model)
Interface Ports	USB 2.0 (spring-loaded bottom pin and USB-C side connector) - High-Speed (Host and Client)

Performance

Processor	Octa-core Qualcomm® 4490; 2.4 GHz
Operating system	Android; For supported Android versions, please visit: www.zebra.com/android-versions
Memory	Standard: 4GB RAM/64GB Flash; Extended: 6GB RAM/64GB Flash; Full: 6GB RAM/128GB Flash
Security	FIPS 140-2 compliance; certification according to common criteria; Support Secure Boot and Validated Boot

Service conditions

Operating temperature	-20C to +50C (-4F to +122F)
Storage Temperature	-40C to +70C (-40F to +158F)
Humidity	5% to 95% non-condensing
Drop resistance	MIL-STD 810H compliant: from 8 feet (2.4 m) ⁶ on a concrete base at a temperature of

Wireless WAN, Data Only (MC3450 Only)

Radio Frequency Range	3G: North America: B2/4/5; In other countries: 1/2/4/5/8; China/Japan: B1/5/6/8; 4G: North America: B2/4/5/7/8/12/13/14/17/25/26/29/30/38/41/48/66/71; Other countries: B1/2/3/4/5/7/8/12/17/18/20/26/28/38/39/40/41/42/43/66/71 China+Japan: B1/3/5/7/8/28/34/38/39/40/41/42; 5G FR1: North America: n2/5/7/8/12/13/14/25/26/29/30/38/41/48/66/71/77/78; Other countries: n1/2/3/5/7/8/12/18/20/26/28/38/40/41/66/71/77/78; China+Japan: n1/3/5/7/8/28/38/40/41/77/78/79 Support for private networks (LTE/5G) Note. Actual band support may vary by country or carrier; contact Zebra Technical Support for more information.
GPS	MC3450 only: GPS, GLONASS, Galileo, QZSS Dual-band GNSS - analogues of L1/G1/E1 (GPS/QZSS, GLO, GAL) + L5/E5a/BDSB2a (GPS/QZSS, GAL) a-GPS support XTRA
Multimedia	Wi-Fi Multimedia™ (WMM) and WMM-PS; including TSPEC
VoIP Voice	Support for Workcloud Communication™ PTT Express and Workcloud Communication PTT Pro

Wireless LAN

Radiocommunication	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); two bands at the same time; IPv4, IPv6
Data Transfer Rate	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
Working channels	Channels 1-13 (2401-2483 MHz): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13; Channels 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; Channels 1-233 (5925-7125 MHz); Channel bandwidth: 20, 40, 80, 160 MHz; Actual operating channels/frequencies and bandwidths are determined by regulations and licenses obtained.
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 only device: EAP-SIM, EAP-AKA, EAP-AKA Prime
Certificates	Wi-Fi Alliance Certification: Wi-Fi n Certification; Wi-Fi ac certification; Wi-Fi 6 (Wi-Fi 6E) certification; 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 roaming	802.11r Fast BSS Transition; PMK Caching; Cisco CCKM; OKC

Industries and Applications

Warehousing

- Order picking
- Placing goods in the warehouse
- Cross-docking
- Delivery
- Acceptance
- Inventory accounting

Production

- Placing goods in the warehouse
- Replenishment of components on the production line
- Monitoring of work performed
- Material Control & Traceability
- Quality control

Transport & Logistics (Ports & Loading Docks)

- Resource management (wagons, containers and cargo)
- Shipment tracking
- Warehouse space management

Retail

- Refund Processing
- Price Checking/Updating
- Acceptance of goods
- Online Order Fulfillment
- Inventory/backroom management

Service conditions

	(+23C/+73F); 6 feet (1.8 m) per concrete base over the full temperature range (-20C to +50C/-4F to +122F), exceeding MIL-STD-810H requirements
Resistance to cyclic drops	The mobile computer can withstand 4000 drops from a height of 1 m / 3.3 ft; meets and exceeds IEC drum test resistance standards.
Hermetic protection	IP65 and IP67 with battery in accordance with IEC sealing requirements
Vibration protection	4 g peak Shin. (from 5 Hz to 2 kHz); 0.04 g, 2/Hz arbitrary (20 Hz to 2 kHz); Duration per axle 60 min., 3 axles
Resistance to electrostatic discharge	Air discharge +/- 15 kV, contact discharge +/- 8 kV, indirect discharge +/- 8 kV

Interactive Sensor Technology (IST)

Light sensor	Automatic Display Brightness Adjustment (Extended and Full Version)
Magnetometer	MC3450 only: eCompass automatically detects direction and orientation
Motion sensor	3-axis accelerometer with MEMS gyro sensor

General Certifications

Compliance with TAA standards; Google ARCore certification pending⁷

Data collection

Scan	SE58 Extended Range Scan Engine with IntelliFocus™ for one- and two-dimensional barcode reading; SE55 extended range with IntelliFocus™ technology; SE4770 for reading one- and two-dimensional barcodes; SE4710 for reading one- and two-dimensional barcodes
Camera	Front: 5 MP; Rear: 13 MP with autofocus; LED flash generates balanced white light; Support flashlight + HDR mode
NFC	NFC ISO 14443 Type A and B; Mifare, FeliCa and ISO 15693 cards, NFC Forum 2,3,4,5 tags

Wireless PAN

Bluetooth	Class 1 and Class 2, Bluetooth v5.3 and secondary Bluetooth Low Energy (BLE) for beacon functions in BLE battery
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Warranty

Subject to the terms of Zebra's hardware warranty, the MC3400/MC3450 is warranted to be free from defects in workmanship and materials for a period of one (1) year from the date of shipment. The full warranty statement can be found at: www.zebra.com/warranty

Environmental safety

RoHS Directive 2011/65/EU; Amendments to RoHS Directive (EU) 2015/863; (EN IEC 63000:2018 standard); For a full list of product and material compatibility, visit the www.zebra.com/environment website

Recommended services

Zebra OneCare™ Essential and Select Service Plans; Zebra Visibility Services – VisibilityIQ™ Foresight; For more information, please visit the www.zebra.com/services website

Footnotes

1. 12-month support subscription for the standard pistol model, for an extended and complete configuration of the direct aiming model. For pistol, extended, and full configurations, support subscriptions are provided for the life of the device.
2. BLE battery and Device Tracker licenses are required.
3. Workcloud Communication license required.
4. Delivery on the next day after the request depends on the region and the time of receipt of the request.
5. LifeGuard for Android comes with every Zebra OneCare support agreement. Some features, such as over-the-air remote updates and monitoring the status of updates, are available through a supported enterprise mobile device management (EMM) system.
6. Only applicable for pistol-type configurations with WLAN support.
7. ARCore certification will be available in the second quarter of 2025.

Zebra DNA

The Zebra DNA software suite empowers your devices with advanced capabilities and simplifies device management. These tools provide maximum performance, easy setup, and robust protection. Zebra DNA for Mobile is only available for Android devices. Features vary by model. A technical support contract may be required. www.zebra.com/zebradna