MC3400/MC3450 Mobile Computer

Engineered for the toughest environments and today's modern workflows — now with more power, advanced scanning, Wi-Fi 6E and 5G connectivity

Introducing the next generation of the highly successful MC3000 Series family of versatile key-based mobile computers, the MC3400 and MC3450. Two form factor options — straight shooter and gun — are packed with the latest mobility features to empower your workforce to meet the ever-increasing needs of today's on-demand, e-commerce economy. Run demanding apps with 2.5x more processing power. Keep workers connected with Wi-Fi 6E, 5G and Private 5G. Prevent unauthorized device access with biometric facial recognition. An improved keypad design makes data entry easier, a more rugged design increases reliability, and more data capture options increase flexibility. Tap into new capabilities that increase security, make devices easy to find and more with Zebra DNA's software suite. And Zebra's services make it easy to run, repair, oversee and manage your devices from cradle to grave.

Maximize user productivity

Keep workers connected, no matter where they are

Wi-Fi 6E plus private and public 5G connectivity provides workers with fast and reliable wireless connections — from the production floor to the farthest corner of the warehouse, including vast outdoor ports and yards. And with a physical nano SIM and eSIM, you can support two networks on a single device.

Choose the right scanner for the job

Different use cases require different scanners. For standard barcode capture, choose the SE4710 1D/2D Scan Engine.

To capture barcodes, photos and documents indoors and outdoors — even in bright sunlight — choose the SE4770 1D/2D Scan Engine with a red laser aimer. Need a flexible scan range? The SE55 1D/2D Advanced Range Scan Engine with Intellifocus™ technology captures barcodes in-hand and on a top warehouse rack — over 40 ft (12.2m) away. And if you need extended range scanning up to 100 ft (30.5m) away, the SE58 Extended Range 1D/2D Scan Engine is ideal for scanning containers in ports and yards. And all options deliver split-second first time capture of virtually every barcode, regardless of condition.

Faster, easier and more accurate data entry — even with gloves

With larger keys and more space between the keys, data entry is easier — increasing productivity and reducing keying errors. And you can choose the keypad that best suits the type of data your workers enter with a choice of 47-key, 38-key and 29-key keypads.

High resolution front and rear cameras in all models

All models now offer a front-facing 5 MP camera. The rear-facing 13 MP camera, previously only available in the straight shooter (brick) form factor, is now available in the gun model as well. Now, workers can place a video call to resolve an issue faster, document damage to an incoming shipment or capture a document, such as a bill of lading or a return receipt, regardless of which model you choose.

The MC3400/MC3450 — built to meet the needs of the next generation on-demand economy.

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

Ensure only authorized users access your devices
Give users nearly instant access to devices with Identity Guardian, which enables secure login with biometric facial recognition via the front-facing camera. And APIs enable easy integration with your custom developed apps.

Maximize lifecycle and ROI with an advanced platform

Power practically any application
The Qualcomm® 4490 processor delivers nearly 2.5x more power, providing superior application performance. And with 50% more RAM and four times the Flash, there's plenty of memory for data storage — and multi-tasking.

Future Android support — guaranteed
Support for future versions of Android™ provides the peace of mind that the devices you purchase today will support the new features of Android, well into the future.

More rugged, more reliable, more uptime
The MC3400 and MC3450 are the most rugged MC3000 Series devices yet, now drop-proof, tumble-proof, dust-proof and waterproof — able to handle being submerged in water and hosed down.

Easily upgrade from legacy MC33 Series devices
Since the look and feel is nearly identical to prior MC33 Series devices, your users will instantly feel at home with the MC3400 and MC3450, virtually eliminating training and ensuring instant adoption. And compatibility with existing MC33 Series accessories — including chargers and batteries — enables a cost effective upgrade to the newest mobile computing handheld device.

Run your Terminal Emulation apps right out of the box
With Ivanti Velocity pre-installed and pre-licensed on every model, you can run your green-screen apps 'as is' — no changes required.[1] Staylinked's SmartTE is also pre-installed, making it easy to transform green-screen apps into intuitive modern touch apps that boost workflow efficiency and worker productivity.

Do more with your devices with ready-to-use solutions

Add new capabilities with easy-to-manage Zebra DNA tools
Zebra DNA simplifies owning Zebra mobile devices with a comprehensive suite of software apps — many at no cost.

Enhance device usability and management effortlessly, saving time for users and IT staff. Manage Zebra DNA tools through Zebra DNA Cloud, a user-friendly portal for easy licensing, configuration and deployment. And you can integrate Zebra DNA Cloud with your existing Enterprise Mobility Management (EMM) system or run as a standalone app.

Locate lost devices
The BLE battery works hand-in-hand with Device Tracker to enable lost or misplaced devices to be located quickly and easily — even if the device is powered off or the battery is depleted.[2]

Task management made easy
Workcloud Task Management is a ready-to-use Zebra solution that allows you to prioritize and send tasks in real time. Tasks can be automatically divided equally among associates or sent to the best person for the task, based on location, skill set or job title.

Enable superior team collaboration
Connect all of your team members with the power of instant communication with Zebra's Workcloud Communication.[3] Turn the MC3400 and MC3450 into walkie-talkies with push-to-talk communications over Wi-Fi and cellular networks; fully featured PBX handsets with a customized interface that simplifies even the most complex telephony features. And enable secure text messaging, complete with an audit trail.

Maximize device uptime — value beyond the hardware

Get around the clock support with Zebra OneCare Select
Keep your devices up, running and in the hands of your workers with a Zebra OneCare Select support contract. You get comprehensive coverage — if it's broken, we fix it. With live 24/7 agent technical support, help is available when you need it. There's no waiting for devices to be returned — a 'like new' ready-to-use replacement device arrives the next day, complete with your apps, OS version, network configuration and more.[4] LifeGuard for Android[5] provides timely OS security updates to keep your devices secure, every day they are in service. And you can customize your support plan with numerous options — for example, you can take the worry out of battery performance with Battery Service enhancements.

Cut Zebra device management costs nearly in half
With Zebra's VisibilityIQ Foresight, you'll spend less time managing devices but have more visibility into the health and utilization of your devices and their batteries, all on a single dashboard. Armed with this information, you can proactively predict and prevent device issues before they result in device downtime. And powerful predictive analytics help forecast season needs and ensure devices are fully utilized to minimize your total cost of ownership and maximize the return on your Zebra device investments.

Specifications

Physical Characteristics

Dimensions	Straight Shooter: 8.2 in L x 2.9 in W x 1.5 in H (208.5mm L x 73.5mm W x 37.1mm H) Gun: 8.2 in L x 2.9 in W x 6.5 in H (208.5mm L x 73.5mm W x 165.3mm H)
Weight	Straight Shooter: 15.6 oz (442g) Gun: 18.6 oz (528g)
Display	4 in WVGA (800 x 480), color display, Standard: 350 NITS (typical), Expanded/Full: 600 NITS (typical)
Imager Window	Corning® Gorilla® Glass
Touch Panel	Dual mode capacitive touch with finger, gloved finger or stylus input (conductive stylus sold separately); Corning Gorilla Glass optically bonded
Power	Standard Rechargeable Li-Ion: 3.6V, 7000mAh (25.20 Wh); Optional BLE Battery Li-Ion 3.6V, 7000mAh (25.2 Wh); Hot swap battery backup with temporary session persistence
Expansion Slot	MicroSD supports up to 2 TB
SIM	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	Audible tone; multi-color LEDs (2); haptic feedback
Keypad	Numeric (29 key), Function Numeric (38 key), Alpha Numeric (47 key)
Voice and Audio	Speaker, microphone, Push-to-Talk (PTT Voice; internal speaker, Bluetooth wireless headset support, USB-C headset)
Buttons	Trigger scan button (Gun); Keypad scan button, Side Scan Keys (Straight Shooter)
Interface Ports	USB 2.0 (Bottom pogo connector and side USB-C connector) — High Speed (Host and Client)

Performance Characteristics

CPU	Qualcomm® 4490 octa-core, 2.4 GHz
Operating System	Android; for supported Android versions, visit: www.zebra.com/android-versions
Memory	Standard: 4 GB RAM/64 GB Flash; Expanded: 6 GB RAM/64 GB Flash; Full: 6 GB RAM/128 GB Flash
Security	FIPS 140-2 Validated; Common Criteria certified; Supports Secure Boot and Verified Boot

User Environment

Operating Temperature	-4F to +122F (-20C to +50C)
Storage Temperature	-40F to +158F (-40C to +70C)
Humidity	5% to 95% non-condensing
Drop Specification	Per MIL-STD 810H: 8 ft (2.4m)[6] to concrete at (+23C/+73F); 6 ft (1.8m) to concrete across temperature (-20C to +50C/-4F to +122F)

Wireless WAN Data Communications (MC3450 Only)

Radio Frequency Band	3G: NA: B2/4/5; ROW: 1/2/4/5/8; China+Japan: B1/5/6/8; 4G: NA: B2/4/5/7/8/12/13/14/17/25/26/29/30/38/41/48/66/71; ROW: 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: NA: n2/5/7/8/12/13/14/25/26/29/30/38/41/48/66/71/77/78; ROW: 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 Supports private networking (LTE/5G) Note: Actual band support may vary by country or carrier, contact Zebra Tech Support for more details.
GPS	MC3450 only: GPS, GLONASS, Galileo, QZSS Dual-Band GNSS — Concurrent L1/G1/E1 (GPS/QZSS, GLO, GAL) + L5/E5a/BDSB2a (GPS/QZSS, GAL) a-GPS Supports XTRA
Multimedia	Wi-Fi Multimedia™ (WMM) and WMM-PS; including TSPEC
VOIP Communications	Supports Workcloud CommunicationTM PTT Express and Workcloud Communication PTT Pro

Wireless LAN

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, 160MHz - 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; 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

Markets and Applications

Warehousing

- Picking
- Put away
- Cross-docking
- Shipping
- Receiving
- Inventory control

Manufacturing

- Put away
- Line-side replenishment
- Work-in-Process (WIP)
- Material tracking and tracing
- Quality control

T&L (Ports and Yards)

- Asset management (rail cars, containers, and cargo)
- Shipment tracking
- Yard management

Retail

- Reverse logistics
- Price verification / updates
- Store receiving
- Online order fulfillment
- Backroom inventory management

User Environment

	exceeding MIL-STD-810H
Tumble Specification	4,000 3.3 ft (1m) tumbles; meets or exceeds IEC tumble specification
Sealing	Dual IP65 and 67 rating with battery per applicable IEC sealing specifications
Vibration	4 g's PK Sine (5 Hz to 2 kHz); 0.04g 2/Hz Random (20 Hz to 2 kHz); 60 minute duration per axis, 3 axis
Electrostatic Discharge (ESD)	+/- 15 kV air discharge; +/- 8 kV direct discharge; +/- 8 kV indirect discharge

Interactive Sensor Technology (IST)

Light Sensor	Automatically adjusts display backlight brightness (Expanded and Full)
Magnetometer	MC3450 only: eCompass automatically detects direction and orientation
Motion Sensor	3-axis accelerometer with MEMS Gyro

General Certifications

TAA compliant; ARCore Google[7] pending

Data Capture

Scanning	SE58 1D/2D Extended Range Scan Engine with IntelliFocus™ technology; SE55 Advanced Range Scan Engine with IntelliFocus™ technology; SE4770 1D/2D Scan Engine; SE4710 1D/2D Scan Engine
Camera	Front: 5 MP; Rear: 13 MP autofocus; flash LED generates balanced white light; supports Torch mode + HDR
NFC	NFC ISO 14443 Type A and B; Mifare, FeliCa and ISO 15693 cards, NFC Forum tags 2,3,4,5

Wireless PAN

Bluetooth	Class 1 and Class 2 configurable; Bluetooth v5.3 and Secondary BLE for beaconing within BLE battery

Warranty

Subject to terms of Zebra's hardware warranty statement, the MC3400/MC3450 is warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For complete warranty statement, please visit: www.zebra.com/warranty

Environmental Compliance

RoHS Directive 2011/65/EU RoHS Amendment (EU) 2015/863 (EN IEC 63000:2018 Standard); For a complete list of product and materials compliance, please visit
www.zebra.com/environment

Recommended Services

Zebra OneCare™ Essential and Select maintenance plans; Zebra Visibility Services — VisibilityIQ™ Foresight; for information, please visit
www.zebra.com/services

Footnotes

1. Standard Gun, Expanded and Full Straight Shooter configuration support 12-month subscriptions. The Gun Expanded and Full configurations support subscription for the life of the device.
2. Requires the purchase of the optional BLE battery and Device Tracker licenses.
3. Requires a Workcloud Communication license.
4. Next-day delivery dependent upon region and time request is received.
5. LifeGuard for Android is included with every Zebra OneCare Support agreement. Some features, such as Over-the-Air remote updates and update status are available through a supported EMM.
6. Applicable to WLAN Gun configuration only.
7. ARCore certification will be available Q2 2025.

Zebra DNA

The Zebra DNA software suite makes your devices more powerful and easier to manage, with tools that ensure top performance, simple setup, and strong security. Zebra DNA for Mobile Computers is available on Android only Features may vary by model and a Support Contract may be required.
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