# Zebra MC3400 & MC3450

## Maximum performance for modern logistics processes

✓ **Powerful processor with 2.5 times more computing power for demanding applications**
The significantly improved hardware compared to the previous models enables even more efficient processes and smooth multitasking.

✓ **Flexible scanning over short, medium and long distances**
From barcode scanning at close range to the additional capture of photos and documents indoors and outdoors up to distances of over 30.5 metres.

✓ **Robust design with IP65/IP67 protection against dust and water as well as high drop resistance**
The MC3400 can withstand repeated drops from heights of up to 2.4 metres onto concrete in accordance with the MIL-STD-810H standard and up to 4000 drops from a height of 1 metre.

✓ **Modern connectivity with Wi-Fi 6E and 5G for fast connections**
Wi-Fi 6E offers reliable wireless connections with low latency in dense network environments, 5G ensures the highest transmission rates outdoors.

✓ **Compatibility with accessories from the MC3300 series for seamless integration**
The Zebra MC3400 is fully compatible with the MC3300 series accessories for a cost-effective upgrade.

# Zebra MC3400 & MC3450

## Features

**Readable codes**: 1D, 2D

**Reading range**: up to 30.5 m

**Display**: 4-inch, 800 x 480 pixels, 350/600 NITS, Corning Gorilla Glass

**Operating system**: Android 13 (future-proof updates)

**Processor**: Qualcomm® 4490 Octa-Core, 2.4 GHz

**Memory**: 4/6 GB RAM / 64/128 GB Flash, expandable up to 2 TB microSD

**Feedback**: LED, sound and vibration

**Keyboard**: 29, 38 or 47 keys for different input modes

**Communication**: Wi-Fi 6E WLAN, 5G mobile communications (MC3450), Bluetooth 5.3, NFC, USB C

**Additional features**: Cameras (13 MP/5 MP), various sensors

**Battery**: 7000 mAh, hot-swappable with BLE tracking

**Protection**: IP65/IP67, drop-proof up to 2.4 m, 4000 drops from a height of 1 m

**Operating temperature**: -20 to 50 °C

**Dimensions** (W x L x H): 208.5 x 73.5 x 37.1 mm (Straight Shooter), 208.5 x 73.5 x 165.3 mm (Gun-Grip)

**Weight**: 442 g (Straight Shooter), 528 g (Gun-Grip)

## Optional accessories

**Single and multiple docking stations**

**Multiple battery charging stations**

**Div. Charging cable**

**Div. Bluetooth-Headset**

**Div. Holster**

**Various hand straps**

**Protective cover**

**Various vehicle mounts**

**Various replacement batteries**

**Stylus pens**

# Zebra MC3400 & MC3450

## 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)<br>**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)<br>**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

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|---|---|
| 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) 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)

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|---|---|
| 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

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|---|---|
| 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 WAN Data Communications (MC3450 Only)

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|---|---|
| Radio Frequency Band | **3G:** <u>NA</u>: B2/4/5; <u>ROW</u>: 1/2/4/5/8; <u>China+Japan</u>: B1/5/6/8; **4G:** <u>NA</u>: B2/4/5/7/8/12/13/14/17/25/26/29/30/38/41/48/66/71; <u>ROW</u>: B1/2/3/4/5/7/8/12/17/18/20/26/28/38/39/40/41/42/43/66/71 <u>China+Japan</u>: B1/3/5/7/8/28/34/38/39/40/41/42; **5G FR1:** <u>NA</u>: n2/5/7/8/12/13/14/25/26/29/30/38/41/48/66/71/77/78; <u>ROW</u>: n1/2/3/5/7/8/12/18/20/26/28/38/40/41/66/71/77/78; <u>China+Japan</u>: 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 Communication™ PTT Express and Workcloud Communication PTT Pro |

## Wireless LAN

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|---|---|
| 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 |
| **Wireless PAN** | |
| Bluetooth | Class 1 and Class 2 configurable; Bluetooth v5.3 and Secondary BLE for beaconing within BLE battery |