

# ZQ511/ZQ521 Mobile Printers

Exceptional durability and reliability for the toughest environments

Zebra's ZQ500 Series just got tougher. The premium ZQ511 and ZQ521 printers — both available in RFID models — give you best-in-class, rugged mobile printing for applications in any industry. Experience ultimate durability. Engineered for tough, demanding indoor and outdoor conditions, these printers can withstand significant drops, tumbles, accidents and environmental extremes that are common in mobile workplaces. Additional features, enhanced durability and military-grade design mean this printer will work as hard as you do.



## Print it All: Receipts, RFID tags, Labels and Linerless

Optimized for on-demand receipt printing in 3 in./72mm and 4 in./104mm print widths, the ZQ511 and ZQ521 printers also print a variety of labels including UHF RFID tags for all your tracking needs. Zebra leads the industry in RFID mobility with mobile printers as part of its comprehensive RFID portfolio, helping you reduce errors and print and encode RFID labels on the go.

## Tough. Reliable. Built to Endure.

### The Most Rugged Printers on the Market

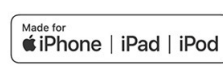
You need a mobile printer that can handle serious abuse. Designed and certified to meet MIL-STD 810G for drop and shock, and tumble tested per the IEC68-2-32 spec to handle 1300 tumbles from 3.3 ft./1 m, the ZQ511 and ZQ521 printers can withstand more than the average mobile printer.

Protection from solid and liquid ingress is no problem with an IP54 rating right out of the box without the need for a protective case.

If this isn't enough to convince you that these are ultra-rugged mobile printers, we also offer an optional exoskeleton case that increases our standard drop testing from 6.6 ft. to 10 ft. and improves the IP rating to IP65.

### Built to Last

New over-molding helps increase the longevity and keeps your ZQ500 Series looking good over the life of the printer.



**Rugged, reliable mobile printing for the toughest jobs.**

For more information, visit [www.zebra.com/zq500](http://www.zebra.com/zq500)

## On-the-Go Power, Functionality and Premium Performance

### Linerless Option Enhances Productivity and Sustainability

Unlock the Zebra ZeroLiner Linerless Labeling Solution with an optional linerless version of the ZQ500 Series designed to work with ZeroLiner labels. This solution not only maximizes workforce productivity but also contributes significantly to your company's sustainability efforts. With no backing liner, your workforce spends less time disposing waste and more time on the task at hand — improving your workforce productivity. And, since there are more labels on a roll, there are fewer rolls of media to carry and fewer media roll changes.

### Optimize Your Printing Quality and Power

Consistent outstanding print quality and performance are key. New printhead and print mechanism, as well as new processor and added memory, deliver it. Keep your employees on task and on schedule with the ZQ500 Series' secondary Bluetooth communication channel. Send print jobs to the printer via one channel, while a second channel performs additional functions such as device management.

Boost print speeds (5+ inches-per minute) with the "draft mode" feature for text-only printing. Do more on a single battery charge with Zebra's patented Power Smart Print Technology™ that delivers the exact amount of power required for the highest quality printing. And, experience consistently sharp print quality—even in hot and cold temperatures—with enhanced temperature compensation.

### Power Your Team to Do More

The ZQ511 and ZQ521 printers' high-capacity 3250 mAh PowerPrecision+ battery powers your team—even during the longest shift. The printer also conserves battery life by entering sleep mode when not in use, then automatically wakes up when a print job is sent. Use an extended battery for twice the capacity on larger print jobs or longer work shifts.

### Stay Connected Everywhere

With support for 802.11ac Wi-Fi plus Bluetooth Classic and Low Energy, your workers can count on fast and secure connections. Use the dual radio to simultaneously operate 802.11ac and Bluetooth for added connectivity.

## Easy to Operate and Manage

### No Manual Needed

ZQ500 Series printers are designed for anyone to use. The simple user interface prevents accidental printer setting changes. Large buttons increase accuracy for gloved hands and fingers. Easy media loading cuts time spent changing supplies.

### Zebra DNA™ for Printers

Zebra DNA's suite of software capabilities for printers leverages everything we've learned about technology, users and thousands of use cases. Stay a step ahead with remote management tools, heightened security, and ongoing updates that enable optimized performance over the entire lifecycle of your printers, even as your business needs evolve.

Zebra DNA for printers helps you effortlessly customize and integrate print apps for multiple environments and infrastructures. Your rollouts are accelerated with an easy-to-use setup wizard, remote access and streamlined steps. You give IT the ability to easily manage and maintain your networked mobile printers anywhere, anytime, uncover potential vulnerabilities, defend against security attacks, and alleviate common IT headaches.

### Managing Your Printers Remotely Made Easy

Zebra's Printer Profile Manager Enterprise is a full featured remote printer management solution. It gives you real-time visibility of your networked mobile printers, and the ability to easily manage them from anywhere, at any time, no matter where they are in the world. The browser-based application lets you discover your Zebra DNA printers, create and distribute configurations, and update printers on your schedule.

## Supplies, Service and Support

### Print Confident. Print Quality. Print Zebra.

Printing supplies can impact everything from printhead lifespan to operational efficiency. That's why we produce our own line of thermal printing supplies to ensure consistent, optimized performance in your Zebra printer—and peace of mind for you.

### Maximize Uptime, Business Operations and Printer Visibility with Services

You invest in Zebra printers to better serve your customers and boost operational efficiency. Now, you can ensure predictable performance and eliminate unbudgeted repair expenses with Zebra OneCare. You get unmatched technical support direct from Zebra, as well as comprehensive repair services, including accidental damage and defined repair turn-around times. And Zebra's Visibility Services provide the real-time insight into printer operational information you need to increase printer availability and optimize utilization within your workflows.

### Added Peace of Mind

Get increased protection with the ZQ511 and ZQ521 printers' standard two-year warranty, making your purchase an even better investment.

# Make the Job Easier with Accessories

Arm your teams to do more with accessories that make the job easier. From power and charging to vehicle mounts and protection options, cradles and more, please refer to the Mobile Printer Accessory Guide, at [www.zebra.com/mobile-printer-accessories](http://www.zebra.com/mobile-printer-accessories) , to see all the ZQ500 Series accessories.

| ACCESSORIES                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| ADAPTERS                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|    | <p>AC Adapter: Connect the AC adapter to your ZQ500 Series printer and wall outlet to charge the printer's PowerPrecision+ battery while in the printer. The printer can print receipts and labels and perform other functions during charging.</p> <p>Connect the ZQ500 Series printer (or charging cradle) to AC power to charge the printer's internal battery.</p> <p>Dual Charging Vehicle Adapter: Charges a ZQ500 Series printer and a TC70, TC72, TC75 or TC77 mobile computer simultaneously via the vehicle lighter power adapter.</p> |
| VEHICLE CRADLE                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|  | <p>Dock and charge a single ZQ500 Series printer on a tabletop/countertop or mount in a vehicle/on a forklift. Must be ordered with an open-ended, vehicle lighter adapter or AC adapter. Meets IP43-rating for additional protection from liquid and solid ingress.</p> <p>Compatible with the ZQ500 Series printers with or without extended battery and with or without exoskeleton.</p> <p>Can be mounted with RAM mounting arm. Requires specific driver for connecting via USB.</p>                                                        |

#### 4-SLOT POWER STATION



Docks and charges up to four ZQ500 Series printers simultaneously. Supports printers in the exoskeleton and with / without extended battery. Power supply ships with the 4-Slot Power Station.

#### 12-24V DC POWER SUPPLY



12-24V DC power supply charges the ZQ500 Series printer via vehicle open-ended or vehicle lighter power adapter. Connects to barrel jack on printer, or on the vehicle / single slot printer charging cradle.

#### EXTENDED SPARE SMART BATTERY 6500 MAH



Extended life battery pack offers twice the battery capacity of the standard pack and is the perfect solution for applications that need more capacity without interruptions.

Battery Capacity: 6500 mAh

#### BATTERY CHARGERS



3-Slot Battery Charger: Dock and charge up to three ZQ500 Series PowerPrecision+ Li-Ion printer batteries at a time. The 3-slot battery charger ships with a power supply and line cord.

1-Slot Battery Charger: Docks and charges a single ZQ500 Series PowerPrecision+ Li-Ion printer battery. Integrated power supply. Ships with line cord.

**EXOSKELETON**



Increase drop specification to 3m/10', seals off ports, and increases to IP65 rating for extreme-use environments. Can be used with single and extended battery packs, 4-slot printer power station and single slot charging cradle.

# Specifications

## Standard Features

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| <ul style="list-style-type: none"><li>• Android, Apple iOS, Windows™ Mobile connectivity</li><li>• Bluetooth specification 4.1 EDR + LE</li><li>• Fast roaming 802.11r supported</li><li>• 3250 mAh PowerPrecision+ Battery (retrievable, rechargeable Li-Ion)</li><li>• USB On-The-Go ports (with optional strain relief)</li><li>• Power Smart Print Technology — anticipates upcoming printing to optimize battery consumption and print speed</li><li>• Direct thermal printing of barcodes, text and graphics</li><li>• IP54 rated for protection against solid and liquid ingress</li><li>• MIL-STD 810G certified for drop and shock</li><li>• Tolerance of multiple drops from 6.6 ft./2 m to concrete</li><li>• Tumble testing per the IEC68-2-32 spec with 1300 free falls from 3.3'/1m</li><li>• Simple easy-to-read LCD with large icons for battery and wireless status</li><li>• Dual-sided tear bar which allows for clean tears in either direction (not available with linerless SKUs)</li><li>• Supports vertical and horizontal printing</li><li>• Printer can be used in any orientation</li><li>• Center loading, adjustable for variable roll widths</li><li>• “Clamshell” design for easy media loading</li><li>• Label odometer</li><li>• XML support</li><li>• Resident fixed and scalable fonts</li><li>• Black mark and gap media sensing using fixed center position sensors (Note: RFID models do not support gap sensing)</li><li>• Cold Temperature Compensation mode-optimizes/balances print speeds to allow for better print performance at lower temperatures</li><li>• PPME, Mirror, SNMP, WebServer, AirWatch® and Soti Connect and Wavelink Avalanche®</li><li>• NTP (Network Time Protocol) support via WiFi</li><li>• Sleep mode supported. Wake on Bluetooth, WiFi and Touch</li><li>• Real time clock (RTC) supported for time stamp certificates in WLAN SKU's only</li><li>• QR code links to web-based help pages; not displayed on LCD</li><li>• Zebra Print Touch simplifies Bluetooth pairing and launches web-based pages with Near Field Communication (NFC) enabled devices</li><li>• RFID is available on both the ZQ511 and ZQ521 as separate products</li></ul> |
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## Physical Characteristics

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| Dimensions                   | ZQ511: 5.9 in. L x 4.7 in. W x 2.4 in. H<br>150 mm L x 120 mm W x 62 mm H<br>ZQ521: 6.2 in. L x 6.1 in. W x 2.6 in. H<br>158 mm L x 155 mm W x 67 mm H |
| Weight with Standard Battery | ZQ511: 1.39lbs/0.63 kgs<br>ZQ521: 1.73lbs/0.79 kgs                                                                                                     |
| Weight with Extended Battery | ZQ511: 1.62lbs/0.72 kgs<br>ZQ521: 1.96lbs/0.89 kgs                                                                                                     |

## Printer Specifications

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|---------------------|---------------------------------------------------------------------------------------------------------------------|
| Operating System    | Link-OS™ printer operating system                                                                                   |
| Resolution          | 203 dpi resolution (8 dots per mm)                                                                                  |
| Memory              | 256MB RAM, 512MB Flash (standard)<br>8MB RAM, 64MB Flash (user available)                                           |
| Maximum Print Width | ZQ511: 2.83 in./72mm<br>ZQ521: 4.09 in./104mm                                                                       |
| Maximum Print Speed | Up to 5 in./127 mm per second (with Draft Mode enabled)                                                             |
| Media Sensors       | Black mark and gap media sensing using fixed center position sensors (Note: RFID models do not support gap sensing) |
| Print Length        | Maximum: 39 in.                                                                                                     |

## Programming Languages

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| CPCL and ZPL™ programming languages<br>ZBI 2.x™—powerful programming language that lets printers run standalone applications, connect to peripherals, and much more |
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## Options

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| <ul style="list-style-type: none"><li>• RFID encoding</li><li>• 6500 mAh PowerPrecision+ Extended Battery (retrievable, rechargeable Li-Ion)</li><li>• Linerless printing (with silicone platen roller only)</li></ul> |
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## Barcode Symbolologies

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| CPCL Barcode Symbolologies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"><li>• Barcode Ratios: 1.5:1, 2:1, 2.5:1, 3:1, 3.5:1</li><li>• Linear Barcodes: Code 39, Code 93, UCC/EAN128, Code 128, Codabar (NW-7), Interleaved 2-of-5, UPC-A, UPC-E, 2 and 5 digit add-on, EAN-8, EAN-13, 2 and 5 digit add-on</li><li>• 2D Barcodes: PDF417, MicroPDF417, MaxiCode, QR Code, GS1/DataBar™ (RSS) family, Aztec, MSI/Plessey, FIM Postnet, Data Matrix, TLC39ZPL Barcode Symbolologies</li><li>• Barcode Ratios: 2:1, 3:1, 5:2, 7:3</li><li>• Linear Barcodes: Code 11, Code 39, Code 93, Code 128, ISBT-128, UPC-A, UPC-E, EAN-8, EAN-13, UPC-A and UPC-E with EAN 2 or 5 digit extensions, Planet Code, Plessey, POSTNET, Standard 2 of 5, Industrial 2 of 5, Interleaved 2 of 5, LOGMARS, MSI, Codabar, and GS1 DataBar (RSS)</li><li>• 2D Barcodes: PDF417, MicroPDF-417, Code 49, TLC39, Maxicode, Codablock, Data Matrix, QR code, Aztec</li></ul> |

## Fonts and Character Sets

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| Standard Fonts                          | 25 bitmapped, 1 smooth, scalable (CG Triumvirate Bold Condensed, contains UFST™ from Agfa Monotype Corporation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Included in All Models and Part Numbers | Scalable Fonts: Swiss721 (supporting Latin, Cyrillic, Hebrew and Arabic characters)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Additional Asian Fonts Supported        | Group A: Part Numbers supporting Indonesia, Taiwan, Korea, Malaysia, Australia, New Zealand, Sri Lanka, India include: Scalable Traditional Chinese Characters: NotoMono, Bitmap: 24x24 MKai, 16x16 New Sans MT, Scalable Korean Characters: NotoMonoGroup B: Part Numbers supporting, Singapore, Thailand, Philippines, HongKong and Vietnam include: Scalable Traditional Chinese characters: NotoMono and Bitmap 16x16 NewSans MT. Scalable Thai Characters: Angsana, Scalable Vietnamese Characters: SourceCodePro and Bitmap 16x16 UtahGroup C: Part Numbers supporting China include: Scalable Simplified Chinese Characters: Hans and Bitmap 24x24 Msung, 16x16 SimSun Group J: Part Numbers supporting Japan include: Scalable NotoMono and Square Gothic J MT, Bitmap 16x16, 24X24 Square Gothic J MT |

## Communication and Interface Capabilities

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| ZebraNet™ 802.11ac radio with support for: <ul style="list-style-type: none"><li>• WPA and WPA2 with AES encryption</li><li>• 802.1x (with WEP, WPA, or WPA2)</li><li>• Operation on both the 2.4 GHz and 5GHz frequency bands</li><li>• EAP-FAST, EAP-TTLS, EAP-TLS, PEAP, LEAP</li><li>• 802.11d, 802.11i, 802.11r</li><li>• Simultaneous Bluetooth 5.2 ready¹/802.11ac Multiport Radio</li><li>• Wi-Fi Certification</li><li>• Fast roaming using Pairwise Master Key (PMK) caching, Opportunistic Key Caching (OKC), EAP Fast Session resumption or 802.11rBluetooth 4.1 (Classic and BLE) radio</li><li>• Security models 1-4</li><li>• “Made for iPod/iPhone/iPad” certified</li><li>• Key BondingCabled Communications Specifications</li></ul> |
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## Markets and Applications

### Transportation and Logistics

- Field service
- Cross-docking
- Direct store delivery
- Proof of pickup and delivery and route accounting
- Bag reconciliation
- Post and parcel
- Passenger ticketing

### Manufacturing/Warehouse

- Field service
- Direct store delivery
- Pallet labeling
- Packing/staging/cross-docking labeling

### Government

- Energy and utility meter reading
- Parking violations
- E-citation

### Retail and Hospitality

- Click and collect receipt and label printing
- Shelf-edge labels
- Drive-through receipt printing
- Arenas/concert venues/theme parks receipt printing

## Printer Specifications

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| Power | 3250 mAh (nominal), removable, rechargeable PowerPrecision+ Li-Ion battery, with optional 6500 mAh extended battery |
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## Media Characteristics

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| Minimum/Maximum Media Width | ZQ511: 1.38 in./35 mm to 3.15 in./80 mm+1 mm<br>ZQ521: 2.0 in./50.8 mm to 4.45 in./113 mm+1 mm                                                                                                                             |
| Maximum Media Roll Size     | ZQ511: 2.0 in./51 mm<br>ZQ521: 2.24 in./57 mm                                                                                                                                                                              |
| Maximum Media Thickness     | 0.0063 in./0.1600 mm for labels and 0.0055 in./0.1397 mm for tag/receipt                                                                                                                                                   |
| Minimum Media Thickness     | 0.0023 in./0.05842 mm for all media (ZQ511 Linerless SKU is 0.0021 in./0.05334 mm)                                                                                                                                         |
| Media Types                 | Receipt, Gap/Black-mark Label, Tag, Linerless, RFID (Note: ZQ511R/ZQ521R require black mark RFID media and do not support gap sensing)<br>Note: ZQ511R/ZQ521R require black mark RFID media and do not support gap sensing |

## Operating Characteristics

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| Environment      | Operating Temperature: -4°F to 131°F/-20°C to 55°C<br>Operating Humidity: 10% to 90% non-condensing<br>Charging Temperature: 32°F to 104°F/0°C to 40°C<br>Cradle Temperature: 32°F to 122°F/0°C to 50°C<br>Storage Temperature: -22°F to 150°F/-30°C to 66°C<br>Storage Humidity: 10% to 90% non-condensing |
| Agency Approvals | Emissions: FCC Part 15, Subpart B, EN55022 Class-B, EN55024, ICES- 003, EN55032, and EN301489<br>ENERGY STAR™ certified                                                                                                                                                                                     |
| Security         | FIPS support is available at no cost as a printer OS download. Please contact your Zebra Sales Representative for further information                                                                                                                                                                       |

## Communication and Interface Capabilities

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| <ul style="list-style-type: none"><li>• USB 2.0 full-speed on-the-go interface (12 Mbps)</li><li>• Micro-AB Connector with optional strain relief</li></ul> |
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## Product Warranty

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| The ZQ511 and ZQ521 printers are warranted against defects in workmanship and materials for a period of 2 (two) years from the date of shipment. (Note: Batteries and Printheads are considered consumables. Zebra Batteries are warranted for one year from the date of shipment and printheads for 6 months from the date of shipment.) For a complete warranty statement, please visit the Product Warranty Exceptions list on <a href="http://www.zebra.com/warranty">www.zebra.com/warranty</a> |
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## Maintenance Plans

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| Your printers are crucial for smooth business operations. Unexpected failures can disrupt workflow. Zebra OneCare maintenance plans offer protection against such issues with certified repairs and timely support. Choose from a variety of plans based on printer type, contract length, coverage level and repair turnaround time. Protect your business from unexpected surprises. For more information go to <a href="http://www.zebra.com/zebraonecare">www.zebra.com/zebraonecare</a> (Note: Service availability may vary by region.) |
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## Zebra DNA for Printers

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| Zebra DNA is a suite of software tools that enable Zebra printers to deliver a full lifecycle of exceptional experiences for every kind of user through built-in applications, utilities and tools to get your printer up and running quickly and securely. For more information, please visit <a href="http://www.zebra.com/zebradna">www.zebra.com/zebradna</a> |
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## Footnotes

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| 1. Supports errata fixes for Version 5.2 only. Future upgrades and updates will not support additional functionality.              |
| For optimum print quality and printer performance, use genuine Zebra supplies.<br>Specifications subject to change without notice. |