

# Zebra® QL Plus™ Series



## Durable Mobile Printers to Meet Your Changing Business Needs.

Need a printing partner tough enough for the concrete jungle? The durable QL Plus series of direct thermal mobile printers can survive everything from warehouse floors to parking lots. Plus, these powerful printers with secure wireless connectivity process and print labels/receipts with complex graphics and fonts quickly.

The QL Plus series of direct thermal printers has been designed with the most advanced technology in rubberized over-molding to maintain robust construction and minimal weight. With center-loading media, battery monitoring and an LCD, these printers provide user-friendly options to keep your business moving.

QL Plus series mobile printers enabled with secure wireless options are easily integrated into your infrastructure. Just a glance at the LCD, and you can read your network settings, or check the communications status. In addition, each printer can be assigned a unique IP address for monitoring over the network, and messages can be sent to the printer using the POP3 functionality. All of these features make the QL Plus printer an integral part of your network environment.

The QL Plus series' wireless modules in Bluetooth® 2.0 or 802.11b/g offer the flexibility to adjust to a wide range of connectivity needs.

## QL Plus Series Thermal Printers

- For complex mobile printing applications requiring advanced wireless connectivity, complex graphics and tailored applications
- Print speeds up to 4 inches per second
- Vertical or horizontal printing
- RS-232, USB 2.0 or wireless connections



# Mobile A to Z from Accessories to Supplies



## Cases

Add dust and rain protection to your QL Plus mobile printer with an environmental case. By adding an extra layer of protection, your printer will be well prepared for the harshest conditions.



## Mobile Mounts

Using the standard QL 420 Plus mobile mounting kit, users can place a mount in their forklift or truck to provide convenient storage for their QL 420 Plus while on the move. For smaller mounting surfaces the flexible RAM mount style Handi-Mount can be ordered. A fanfold media bin can also be attached to this mount, to extend the media capacity of the QL 420 Plus.



## Mobile Media

Zebra provides both in-stock and custom-made receipt paper, labels, and tags specifically engineered to ensure maximum performance in Zebra printers. Custom options include watermarks, preprinted logos, and terms and conditions. Zebra also offers quality heat-, water-, and UV-resistant coatings for attractive, reliable printouts. For details, contact your authorized reseller, or call Zebra at +1 877 275 9327.



## QL Plus Stands

Users of the QL Plus series of mobile printers can purchase a resting spot for their printer while not in use. These convenient printer stands also are a useful spot to place the printer while toggling through options or programming the printer.

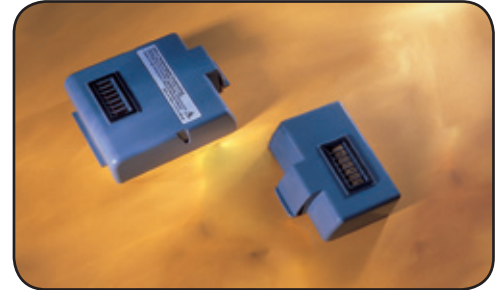
Users can also order a kickstand, as can be seen above on the QL 220 Plus, which props the printer on a flat surface. The kickstand can also be flipped upward for use as a carrying handle.



## QL Plus Series Lithium-Ion Chargers

**Fast Charger:** Charges a single QL Plus series Li-Ion battery at a time in approximately 2–5 hours.

**Quad Charger:** Charges up to 4 QL Plus series Li-Ion batteries at a time in approximately 2–5 hours.



## Lithium-Ion Batteries

Lithium-ion (Li-Ion) cells represent the latest in mobile battery technology. Keeping a spare on hand ensures you are charged and ready to go!

# Applications

## Meet the QL Plus Series!

**Connected today, connected tomorrow, constructed to last!**

**With the most feature-rich offering of any mobile printer in the market:**

### Durable, Lightweight Printer

- Rubber-infused plastic over-mold design for tough conditions
- Damage-resistant to multiple drops of up to 5 feet
- Weight of 2 pounds or less for effortless mobility

### Load and Go!

- Center-locking media loading
- Engage the easy-to-use peel and present function with the flip of a bar

### Flexible Software and Communications to Meet Your Needs Today and Grow in the Future

- Support for complex graphics, fonts, and tailored applications
- Faster cabled file transfers via USB
- Wireless now or upgradeable later
- Richest support of wireless protocols
- Simple integration with other Zebra lines of printers by using ZPL®, XML or EPL™ commands



**Extend the arm of your stationary printers by adding wireless mobile printers.**



## Law Enforcement

### Electronic Citations

Use electronic citation systems and QL Plus printers to replace handwritten tickets—and eliminate the cost, delay, and errors of manual data entry.

## Distribution

### Forklift-Mounted Printing

With the QL 420 Plus printer's mobile mount option, forklift operators can print product identification, bin, and shipping labels at the point of application—without needing to run back to the shipping office to pick up labels.

## Healthcare

### Specimen Labels

Healthcare facilities can print specimen labels at the point of collection, and also print a bar coded label for the patient's chart, reducing the risk for dangerous misinformation.

### Pharmacy Labels

Pharmacies can scan the prescribed medicine and print bar coded labels with patient information when using the QL Plus anywhere in the pharmacy, minimizing the risk for wrongly filled prescriptions.



## Retail

### Price Marking

By printing and applying markdown labels at the location of the product via wireless LAN, retailers can respond to sensitive market changes more frequently.

### Shelf Labeling

Use a QL Plus to print one or multiple shelf labels at the point of application as required—avoiding waste and improving efficiency.

## Route Accounting/ Field Service

Use a QL Plus printer where a label is needed such as a reship label or proof of service label attachment.

## Shipping and Receiving

### Receiving Verification/Inventory Updates

Apply QL Plus-printed bar code labels as deliveries are received to record product arrival, and scan these labels throughout the process for tracking purposes.

## Manufacturing

### Pallet Labeling

When breaking into a pallet to remove a partial order, employees can label the partial, and re-label the pallet in real-time to maintain inventory accuracy.

# Zebra QL Plus Series Printers

**QL 220 Plus™**



Take 2-inch label, ticket, and receipt printing where stationary and larger mobile printers dare not go—whether it's down store aisles, on hospital rounds, or onto retail pharmacy counters. Strap or clip on the sleek, 1.04-pound QL 220 Plus network-addressable label/receipt mobile printer and move with ease!

**Maximum Print Area**

- Width: 1.89"/48.0 mm
- Receipt length: Continuous
- Label length: 32"/813 mm

**Resolution**

203 dpi/8 dots per mm

**Maximum Print Speed**

3"/76.2 mm per second

**Memory**

16 MB RAM; 8 MB Flash

**Physical Characteristics**

- Width: 3.57"/90.7 mm
- Depth: 2.96"/75.2 mm
- Height: 7.15"(w/o belt clip)/181.6 mm
- Weight (with battery): 1.04 lbs./0.47 kg

**Media Specifications**

Label and liner width: .63"/16.0 mm to 2.18"/55.4 mm

**QL 320 Plus™**



Zebra's popular QL 320 Plus mobile printer, for print widths up to 3 inches, was the first to offer the flexibility of 802.11b/g radio modules to meet evolving needs and wireless standards. Count on its durable design to endure tough manufacturing or shipping/receiving environments.

**Maximum Print Area**

- Width: 2.9"/73.7 mm
- Receipt length: Continuous
- Label length: 32"/813 mm

**Resolution**

203 dpi/8 dots per mm

**Maximum Print Speed**

4"/101.6 mm per second

**Memory**

16 MB RAM; 8 MB Flash

**Physical Characteristics**

- Width: 4.6"/116.8 mm
- Depth: 3.1"/78.7 mm
- Height: 8.0"/203.2 mm
- Weight (with battery): 1.65 lbs./0.748 kg

**Media Specifications**

Label and liner width: 1.25"/31.75 mm to 3.12"/79.2 mm

**QL 420 Plus™**



Bring the flexibility of wireless printing to your 4-inch label or receipt applications with Zebra's QL 420 Plus mobile printer. Built to survive the rigors of warehousing, distribution, and route accounting, the QL 420 Plus offers a mobile mount option to allow printing in a forklift or vehicle.

**Maximum Print Area**

- Width: 4.09"/103.9 mm
- Receipt length: Continuous
- Label length: 32"/813 mm

**Resolution**

203 dpi/8 dots per mm

**Maximum Print Speed**

3"/76.2 mm per second

**Memory**

16 MB RAM; 8 MB Flash

**Physical Characteristics**

- Width: 6.0"/152.4 mm
- Depth: 3.0"/76.2 mm
- Height: 7.5"/190.5 mm
- Weight (with battery): 2 lbs./0.907 kg

**Media Specifications**

Label and liner width: 2.0"/50.8 mm to 4.12"/104.6 mm





**A ZebraCare Depot service agreement is a cost-effective means of planning and budgeting your annual maintenance expenditures. This back-to-factory service ensures that trained and certified Zebra technicians will bring your printer back to factory specifications every time. Zebra offers four plans to meet your specific needs.**

#### **ZebraCare Depot Standard**

The standard ZebraCare Depot package covers all labor and parts (excluding printheads, accessories, and batteries), cleaning and adjustment, preventative maintenance, and three- to five-day turnaround.

#### **ZebraCare Depot Advantage**

ZebraCare Depot Advantage includes all the standard features with the addition of two-day or better turnaround on all corrective maintenance and free firmware upgrades upon request.

#### **ZebraCare Depot Advantage Overnight**

ZebraCare Depot Advantage Overnight provides the features of the ZebraCare Advantage plan, plus includes free next-day return shipping.

#### **ZebraCare Depot Advantage Plus**

With the ZebraCare Depot Advantage Plus program, we will maintain a pool of up to 6 percent of your inventory at our facility for same-day exchange, provide free overnight shipping, and offer monthly activity reports.

**You may also extend any agreement's benefits by selecting one or both of the service options below:**

#### **Comprehensive Coverage**

Upgrades your service agreement's coverage to include printhead replacement and physical damage repair.

#### **Battery Coverage**

Zebra's Battery Refresh Program is designed to automatically send out new Zebra lithium ion batteries on an annual basis. Benefits include:

- 15% cost savings on battery expense
- Automatic replacement of batteries
- Environmentally safe disposal and recycling of used batteries
- Protection against price increases
- Improved safety

## **Wireless Connection**

**Choose the wireless connectivity that suits your needs:**

- 802.11b/g—the latest and greatest WLAN connectivity
- Bluetooth 2.0—low-power consumption short-range connectivity
- Cable-ready—connect to a wider variety of terminals than any other mobile printer
- Support for advanced wireless security standards such as 802.11i, VPN and WPA/WPA2
- Zebra can upgrade your QL Plus printers as application needs change

## **Advanced Printing**

- Communicates in printable ASCII characters
- Compatible with mainframe, mini and PC hosts
- Downloadable graphics, fonts label templates and formats
- Automatic serial number selection in defined fields
- Advanced utilities to manage Flash file systems, obtain information about firmware and applications, configure security and networking and set operating parameters
- Programmable label odometer
- Power management controls

# Specifications at a Glance\*

## Standard Features

- 16MB RAM/8MB Flash memory
- Print method: Direct thermal
- Rubber-infused plastic over-mold design for tough conditions
- Battery monitoring via a battery low indicator light or gauge on the LCD
- Lithium ion battery
- OpenACCESS™ design and center locking
- media loading
- Label Vista™ and Windows® printer drivers
- QuickFlip™ peel and present mode
- 32-bit processor

## Operating Characteristics

### Environment\*\*

- Operating Temp.: 5° F/-15° C to 122° F/50° C
- Storage Temp.: -13° F/-25° C to 158° F/70° C
- Operating Humidity: 10% to 80% non-condensing
- Storage Humidity: 10% to 90% non-condensing
- Water resistant to IP14 standards and IP54 rated with optional soft case

### Electrical

- 7.4 V Lithium ion battery (2.1 Ah QL 220 Plus, QL 320 Plus; 4.2 Ah QL 420 Plus)
- External charger options

### Communication Interface Capabilities

- Wireless security features (i.e. VPN or WPA/WPA2)
- 8 pin din (RS232C)
- Selectable baud rate: 9600 to 115.2 Kbps
- Xon/Xoff or Hardware flow control
- Bluetooth option
- Wireless LAN (802.11b/g)
- USB 2.0

### Agency Approvals

FCC and CE Class B compliance; design certified by CSA; CB Scheme report; NOM certified; C-Tick clearance

## ZebraLink™ Solutions

### Software

- ZebraDesigner™ Pro
- ZebraNet™ Bridge Enterprise
- Label Vista
- Zebra Mobile SDK

### Printer Languages & Firmware

- CPCL-Native
- ZPL II-x.8
- EPL2
- XML
- Wavelink Avalanche® Support
- Motorola® MSP Support
- File mirror via ftp or secure ftp

## Media Characteristics

### Labels/Receipts

- Max. Roll Size (O.D.):
  - QL 220 Plus: 2.2"/55.9 mm
  - QL 320 Plus/QL 420 Plus: 2.6"/66.7 mm
- Core Size (QL 220/320/420 Plus): Interchangeable 3/4"/19.1 mm or 1-3/8"/34.9 mm
- Tag Receipt Thickness: 2.5 mil to 6.0 mil
- Label Thickness: 2.5 mil to 6.5 mil
- Media Type: Roll-fed, die-cut, linerless, receipt, fan-fold (QL 420 Plus)

For optimum print quality and printer performance, use genuine Zebra™ supplies

## Fonts/Graphics/Symbologies

### Fonts and Character Sets

- Five resident scalable, rotatable fonts available from 12-48 pt.
- Downloadable soft fonts from Label Vista software
- Optional international character sets

### Graphic Features

Graphics, line and box drawing features; PCX supported

## Bar Code Symbologies

- Linear Bar Codes: Code 39, Code 93, Code 128; Codabar; Interleaved 2-of-5; FIM Postnet; UPC-A, UPC-E, 2 & 5 digit add-on; EAN-8, 13, 2 & 5 digit add-on; MSI/Plessey; UCC/EAN 128
- 2-Dimensional: Aztec, Data Matrix, GS1 DataBar™ (RSS) family (12 bar codes), MaxiCode, PDF417, QR Code

Contains UFST® from Monotype Imaging, Inc.

## Options and Accessories

- 802.11b/g wireless local area network (WLAN) or Bluetooth 2.0
- Media width auto-sensing feature
- Linerless printing
- Spare lithium ion battery packs
- Battery chargers (AC/DC)
- International character sets
- Fanfold media bin (QL 420 Plus only)
- Mobile mount (QL 420 Plus only)
- Battery eliminator
- Soft case
- Kickstand
- XML Support Applications and Documentation utility CD

\*Specifications subject to change without notice. \*\* Extremes in temperature and label image density may affect throughput and print image quality. Please contact Zebra for guidance to maximize the performance of your solution. ©2010 ZIH Corp. All product names and numbers are Zebra trademarks, and Zebra, the Zebra head graphic and ZPL are registered trademarks of ZIH Corp. All rights reserved. Bluetooth is a registered trademark of Bluetooth SIG, Inc. RAM is a registered trademark of National Products, Inc. ThingMagic is a registered trademark of ThingMagic, LLC. UFST is a trademark of Monotype Imaging, Inc. and may be registered in certain jurisdictions. GS1 DataBar is a trademark of GS1 US, Inc. All other trademarks are the property of their respective owners.



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