

Zebra® QL Plus™ Series

Mobile Printing for Businesses on the Go



Rugged mobile printers to meet your changing business needs.

Need a printing partner tough enough for the concrete jungle? From warehouse floors to parking lots, there are no printers more durable than the QL Plus series from Zebra.

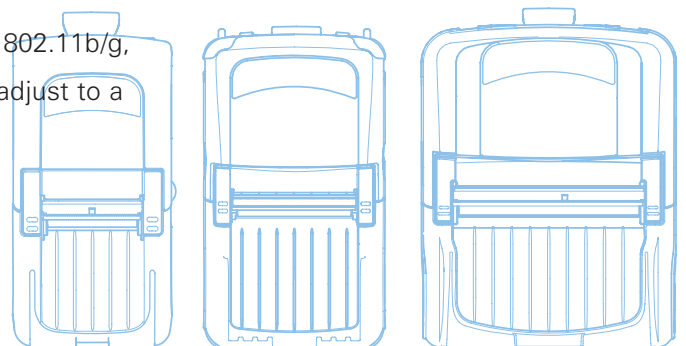
The QL Plus series of direct thermal printers has been designed with the most advanced technology in rubberized over-molding to maintain rugged construction and minimal weight. With center-loading media, smart battery monitoring and an LCD, these printers provide user-friendly options to keep your business 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 IrDA®, Bluetooth®, 802.11b/g, or dual radios (Bluetooth and WLAN) 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
- Lower charging time and longer operating time than most thermal portable printers



Zebra QL Plus series printers

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:

Rugged, 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.



→ Applications for the QL Plus series

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 APPLICATIONS

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 APPLICATIONS

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 APPLICATIONS

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 APPLICATIONS

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

SHIPPING AND RECEIVING APPLICATIONS

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 APPLICATIONS

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.

For More Information

Contact your Zebra representative for additional printer specifications. For information on Zebra's other printers, supplies, software, and accessories, ask your reseller, call +1 800 423 0442, or visit our Web site www.zebra.com.

Mobile Accessories

QL Plus Series Optional Accessories:

With Zebra mobile accessories, users enjoy the utmost benefit from their mobile printing solution. Whether using our chargers or cases, users find Zebra quality extends beyond printers and into everything we offer.

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.



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.

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.

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.

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.

Lithium-Ion Batteries



Lithium-ion (Li-Ion) cells represent the latest in mobile battery technology. They offer higher power-to-volume and power-to-weight than their nickel metal hydride and nickel cadmium counterparts.

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

Length (with standard memory): 32"/813 mm

RESOLUTION

203 dpi/8 dots per mm

MAXIMUM PRINT SPEED

3"/76.2 mm per second

MEMORY

8 MB DRAM; 4 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 rugged design to endure tough manufacturing or shipping/receiving environments.

MAXIMUM PRINT AREA

Width: 2.9"/73.7 mm

Length (with standard memory): 16"/406 mm

RESOLUTION

203 dpi/8 dots per mm

MAXIMUM PRINT SPEED

4"/101.6 mm per second

MEMORY

8 MB DRAM; 4 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. Ruggedly 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

Length (with standard memory): 20"/508 mm

RESOLUTION

203 dpi/8 dots per mm

MAXIMUM PRINT SPEED

3"/76.2 mm per second

MEMORY

8 MB DRAM; 4 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

Zebra QL Plus series printers

→ The Wireless Connection

Choose the wireless connectivity that suits your needs:

- 802.11b/g or 802.11b—the latest and greatest WLAN connectivity
- Bluetooth—low-power consumption short-range connectivity
- Dual radio support—for using Bluetooth and WLAN in the same printer (QL 420 Plus only)
- 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
- LCD control panel

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

→ ZebraCare™

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}™

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



Zebra QL Plus™ Series

QL Plus series mobile printers powerfully handle complex applications, securely transfer data, and meet advanced wireless needs today and tomorrow.

Specifications at a Glance*

STANDARD FEATURES

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
 Backward compatible with Encore® and Cameo® media and cables
 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
 Operating Temp. (w/LCD): 32° F/0° C to 122° F/50° C
 Storage Temp.: -13° F/-25° C to 158° F/70° C
 Storage Temp. (w/LCD): -4° F/-20° 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 or 802.11b/g)
 Dual radio option (QL 420 Plus only)
 USB 2.0
 IrDA
 Wavelink Avalanche® Support
 Motorola MSP Support

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

Firmware

CPCL-Native
 ZPL II-x.8
 EPL2
 XML

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 and bitmap 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/802.11b wireless local area network (WLAN) or Bluetooth
 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

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