QL Plus™ series

Mobile printing for businesses on the go

Rugged mobile printers to meet your changing business needs

The QL Plus series of direct thermal mobile printers has been designed with the most advanced technology in rubberised over-moulding to maintain both rugged construction and minimal weight.

With centre-loading media, smart battery monitoring and an LCD, they provide user-friendly options to keep your business moving.

High Performance Architecture

With a 32 bit processor coupled with 16MB DRAM and 8MB flash memory, the QL Plus series provides best in class performance and functionality. Print 2D barcodes and implement the latest wireless security standards with no impact to performance or print speed.

Vehicle mount for the QL 420 Plus

Using the QL 420 Plus mobile mounting kit, users can place a mount in their forklift or vehicle to provide convenient storage for their QL 420 Plus while on the move. A fanfold media bin can also be attached to this mount, to extend the media capacity of the printer.

Get the most out of your Zebra, put genuine Zebra supplies in!

Zebra offers a wide range of supplies for QL Plus printers, all made to a high standard and suitable for a variety of applications.

- Manufactured exclusively for Zebra printers
- Laboratory-tested for optimum performance
- Proven to minimise wear and tear on printheads

▶ **For more information, visit www.zebra.com**

QL Plus™ series and accessories

Meet the QL Plus series

Connected today, connected tomorrow, constructed to last! For complex mobile printing applications requiring the most feature-rich offering of any mobile printer in the market:

Rugged, lightweight printer
- Rubber infused plastic over-mould design for tough conditions
- Damage-resistant to multiple drops of up to 1.5m
- Weight of less than 1kg for effortless mobility

Load and go!
- Centre-locking media loading
- Engage the easy-to-use peel and present function with the flip of a bar

QuickLink™ connectivity
Choose the QuickLink connectivity module that suits your needs:

- 802.11g – the latest and greatest WLAN connectivity
- Bluetooth™ – add mobile printing to your workgroup or piconet (ad hoc network of up to seven Bluetooth devices)
- Cable-ready – connect to a wider variety of terminals than any other mobile printer with either a serial RS232 connection, or USB 2.0 for full speed connectivity

Retail applications

Price marking
Scan the product's bar code at the shelf. Any price change comes back over your wireless LAN to the QL Plus mobile printer to print a markdown label. By easily bringing markdowns directly to the product, you can respond to sensitive market changes more frequently.

Shelf labelling
Scan the product with a handheld terminal or scanner and use a QL Plus to print one or multiple shelf labels at the point of application as required – avoiding waste and improving efficiency.

Field Force applications

Meter-reading receipts
With each delivery, drivers can enter data from the utility meter into a handheld terminal and print a customer receipt using a QL Plus mobile printer. Data in the terminal can be uploaded upon return without any additional data entry, reducing the chance of error.

Delivery verification slips/invoices
Use a QL Plus printer to print delivery receipts/invoices at the point of transaction, confirming the actual quantities that transferred possession. When ordered items are not included in the delivery, update the invoice through a handheld terminal.

Fuel and utility inspection
Print labels for application on fuel pumps and utility meters on site to verify quality inspections are accurate and up-to-date.

Manufacturing applications

Pallet labelling
When breaking into a pallet to remove a partial order, label the partial, and re-label the pallet to show the stock debit. These real-time changes help maintain stock accuracy.

Product identification
Provide the customised labels required by different vendors. The QL Plus printers' high-resolution, thermal print-head guarantees consistently scannable bar codes and crisp graphics and text.

Distribution applications

Forklift-mounted printing
With the QL 420 Plus™ 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.

Customer pick-up
Wirelessly send customer orders from your shop floor to a QL Plus printer in the warehouse – and print a pick ticket for the item to be brought to the collection point for pick-up.

Shipping and receiving applications

Shipment labelling
Enhance delivery and tracking of parcels. Print 2-D bar code shipping labels with QL Plus printers for real-time tracking from one transfer hub to the next.

Receiving verification/stock updates
Apply bar codes as deliveries are received to record product arrival and provide standardised labelling for use with your business system.

QL 220 Plus™

For 50mm (2") label, ticket, and receipt printing, the QL 220 Plus is a light and compact mobile printer offering the same wireless and network-addressable capability as its bigger brothers. Ruggedly built yet light to carry, it is ideal for retail, postal and healthcare applications.

Technical specifications*

Maximum print area
Width: 48mm (1.89")
Length: 508mm (20")
(with standard memory)

Resolution
8 dots per mm (203dpi)

Maximum print speed
76.2mm (3") per second

Memory
16MB DRAM; 8MB flash (standard)

Physical characteristics
Width: 90.7mm (3.57")
Depth: 75.2mm (2.96")
Height: 181.6mm (7.15")
Weight (with battery): 0.59kg (1.3lb)

Media specifications
Label and liner width:
19.05mm (0.75") to 53.9mm (2.12")

QL 320 Plus™

Zebra's popular QL 320 Plus mobile printer, for widths up to 75mm (3"), is widely used in retail, distribution and hospitality applications for labels, receipts and ticket printing. Count on its rugged design to withstand accidental drops and endure tough shipping or receiving environments.

Technical specifications*

Maximum print area
Width: 73.7mm (2.9")
Length: 406.4mm (16")
(with standard memory)

Resolution
8 dots per mm (203dpi)

Maximum print speed
101.6mm (4") per second

Memory
16MB DRAM; 8MB flash (standard)

Physical characteristics
Width: 117mm (4.6")
Depth: 78.7mm (3.1")
Height: 203.2mm (8.0")
Weight (with battery): 0.75kg (1.65lb)

Media specifications
Label and liner width:
31.8mm (1.25") to 79.2mm (3.1")

QL 420 Plus™

Bring the flexibility of wireless printing to your 102mm (4") label or receipt applications with Zebra's QL 420 Plus mobile printer. Ruggedly built to survive the rigours of warehousing, distribution and field-force applications, the QL 420 Plus offers a mobile mount option to allow printing in a forklift or vehicle.

Technical specifications*

Maximum print area
Width: 103.9mm (4.09")
Length: 508mm (20")
(with standard memory)

Resolution
8 dots per mm (203dpi)

Maximum print speed
76.2mm (3") per second

Memory
16MB DRAM; 8MB flash (standard)

Physical characteristics
Width: 152.4mm (6.0")
Depth: 76.2mm (3.0")
Height: 190.5mm (7.5")
Weight (with battery): 0.91kg (2lb)

Media specifications
Label and liner width:
50.8mm (2.0") to 104.1mm (4.1")

Standard features

- Print method: direct thermal
- Rubber infused plastic over-mould design for tough conditions
- Large LCD screen for operator interaction and real-time status reporting
- Battery monitoring via a battery low indicator light or gauge on the LCD
- Lithium Ion battery
- "Clam-shell" design and centre-locking media loading
- Label Vista™ and Windows® printer drivers
- High speed 32 bit processor
- 16MB DRAM, 8MB flash memory

Media characteristics

Labels/Receipts

Max. roll size
- 66.7mm (2.6") O.D. on a 19mm (0.75") O.D. core

Tag receipt thickness
- 0.064mm (0.0025") to 0.152mm (0.006")

Label thickness
- 0.064mm (0.0025") to 0.165mm (0.0065")

Media types
- Roll-fed, die-cut, liner-free, receipt, fanfold (QL Plus 420)

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

Operating characteristics

Environment
- Operating Temperature -15ºC/5ºF to 50ºC/122ºF
- Operating Temperature (w/LCD) 0ºC/32ºF to 50ºC/122ºF
- Storage Temperature -25ºC/-13ºF to 70ºC/158ºF
- Storage Temperature (w/LCD) -20ºC/-4ºF to 70ºC/158ºF
- Operating Humidity 10% to 80% non-condensing
- Storage Humidity 10% to 90% non-condensing
- Water-resistant to IP14 standards

Electrical

- 7.2V Lithium Ion battery (QL 220 Plus™ and QL 320 Plus™: 2100 a.h.; QL 420 Plus™: 4200 a.h.)
- External charger options

Communication interface capabilities

- 8-pin DIN (RS232C)
- USB 2.0 full speed support 12 Mbits/second
- Selectable baud rate: 9600 to 115.2Kbits/second
- Xon/Xoff or hardware flow control
- Bluetooth™ option
- 802.11g wireless LAN option

Agency approvals

- Part 15 FCC Class B and CE compliance; built to UL, CUL, and TUV standards

Printer control languages

- Native CPCL with ZPL and XML support (standard)
- ZPL II and EPL II emulations (standard)

Options and accessories

- 802.11g wireless local area network (WLAN) or Bluetooth
- Peel and present mode
- Patent pending media width auto-sensing feature
- Liner-free printing
- Spare Lithium Ion battery packs
- Battery chargers
- International character sets
- Fanfold media tray (QL 420 Plus)
- Mobile mount (QL 420 Plus)
- Environmental case
- Stand to rest printer on when not being carried
- Handi Mount
- Cigarette-lighter charger (for in-vehicle charging)
- Wireless security standards including VPN, WPA, WPA 2 (802.11i) and 802.1x

Fonts and graphics

Fonts and character sets
- Standard fonts: 25 bitmapped, 1 smooth-scalable (CG Triumvirate™ Bold Condensed)**
- Optional Fonts: downloadable bitmapped and scalable fonts
- International character sets (optional): Chinese 16x16 (trad), 16x16 (simplified), 24x24 (simplified); Japanese 16x16, 24x24, Hebrew/Arabic

Graphic features
- Graphics, line and box drawing features; PCX bitmap supported
- Supports user-defined fonts and graphics - including custom logos

Bar Code Symbologies

- Linear base codes: Code 39, Code 93, UCC/EAN 128, Code 128, UPC-A, UPC-E, EAN-8, EAN-13, EAN 14, UPC and EAN 2 or 5 digital extensions, Plessey, FIM Postnet, Interleaved 2 of 5, MSI, Codabar
- 2-Dimensional: PDF-417, Datamatrix, Maxi Code, RSS, Composite Symbology, QR

ZebraLink Solutions

- ZebraLink™ Solutions:
- ZebraDesigner™ Pro
- ZebraNet™ Bridge Enterprise - centrally manage Zebra printers from a single PC Screen anywhere on your global network
- Label Vista™ software for native CPCL – easy to use software program for setup and label management

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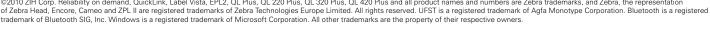
Thinking about mobilising your workforce?

The use of mobile printers in a warehouse or supply-chain environment improves productivity and provides a fast return on investment.

▶ **To find out how your business could benefit from a Zebra mobile-printing solution, please visit www.zebra.com, call +44 (0)1628 556000 or e-mail mseurope@zebra.com**