ZQ600/ZQ600 Plus Series Printers

Premium mobile label and receipt printers for maximum productivity

Want to improve inventory management and customer service in your store? With the ZQ600/ZQ600 Plus Series mobile printer, you can. The ZQ600/ZQ600 Plus Series takes Zebra's popular QLn platform and makes it even better—adding advanced technology and innovative design that drive productivity, ease-of-use and manageability to a new level. A large color display takes all the guesswork out of printer status. Advanced battery technology and more battery capacity, power every minute of the longest shift. The instant wake-up feature ensures the ZQ600/ZQ600 Plus Series never sleeps on the job. Your workers get the fastest, most dependable wireless connections inside the four walls and your IT department will find the ZQ600/ZQ600 Plus Series easier to integrate, manage, setup and secure. The ZQ600/ZQ600 Plus Series— the next evolution in the gold standard for mobile label and receipt printing. The ZQ600 Plus Series delivers the same features and specifications as the ZQ600 Series, using redesigned electronics for long-term product continuity and availability. The ZQ600 Plus printers require new, different firmware and drivers.

Premium Features for Maximum Productivity

The Latest Wireless Connections
The ZQ600/ZQ600 Plus Series offers the fastest, most dependable wireless connections inside the four walls. With support for 802.11ac Wi-Fi and its latest security protocols, plus Bluetooth® Classic and Low Energy (BLE), your workers can count on blazing fast and secure connections.

Industry-Standard 802.11r Fast Roaming for Seamless Access
With support for 802.11r fast roaming technology, your workers can depend on a connection while they are on the move.

Instant Wake-Up Over Wi-Fi
This intelligent printer enters sleep mode when it is idle, and automatically wakes up the moment the user sends a print job. And the ZQ600/ZQ600 Plus Series' instant wake-up works over both Wi-Fi and Bluetooth.

Large Color Display Makes Configuration and Operation a Snap
The ZQ600/ZQ600 Plus Series provides a large display, user-friendly interface and easily customized menu. The ZQ600/ZQ600 Plus Series is based on Zebra's Link-OS menu system to deliver a common user experience across other Zebra Link-OS mobile, desktop and industrial printers.

Business Tough—Built for All-Day Every Day Enterprise Use
While the ZQ600/ZQ600 Plus Series is lightweight and comfortable to wear all shift long, it is loaded with features that give it long-lasting durability, including over-molding, a tempered-glass display and seamless one-piece design. The high-grade resin is one of the toughest plastics available for greater impact resistance.

Unsurpassed Battery Power Management

Do More on a Single Charge
With the ZQ600/ZQ600 Plus Series' high-capacity 3250 mAH (ZQ610 and ZQ610 Plus / ZQ620 and ZQ620 Plus) and 6800 mAH (ZQ630 and ZQ630 Plus) battery, you can be sure that every worker has plenty of power for every shift. Plus Power Smart Print Technology™, Zebra's patented technology, maximizes efficiency by delivering the exact amount of power required for the highest quality printing, saving an estimated 20 to 30 percent of battery power.

Boost associate productivity with the next evolution in mobile printing. For more information about the ZQ600/ZQ600 Plus Series, please visit www.zebra.com/zq600

Extraordinary Battery Management Capabilities
The ZQ600/ZQ600 Plus Series' PowerPrecision+ battery delivers the ultimate in battery power and management. A wealth of easily accessible battery metrics makes it easy to identify aging batteries before they impact productivity.

An Advanced Platform that Grows with Your Business

Zebra Print DNA–Your Printers' Built-In Advantage
Print DNA's suite of software capabilities 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 your printers to work at their highest potential.

Robust Memory to Support Applications Today and Tomorrow
The ZQ600/ZQ600 Plus Series offers 256 MB RAM and 512 MB Flash—providing more than enough memory for all your fonts and graphics needs today, as well as all the firmware upgrades and new Print DNA tools for years to come.

Backward Compatible with QLn Accessories
With more than one million units sold, Zebra's QLn Series set the bar for retail mobile printing. Now, the ZQ600/ZQ600 Plus Series raises the bar again. And since the ZQ600/ZQ600 Plus Series is backward compatible with QLn accessories, you can upgrade to the latest platform and ingenuity without buying new accessories or rebuilding the settlement room.

Maximum Uptime with Comprehensive Remote Management Options

Resolve Problems Faster with the Ethernet Cradle
Remote management is easy with the ZQ600/ZQ600 Plus Series' Ethernet Cradle. By docking the printer in the cradle at the end of every shift, IT can remotely upgrade the firmware as needed to ensure that each printer is operating at peak performance. Should employees experience a problem, they can simply dock the printer into the cradle for a remote diagnosis—eliminating the downtime and costs associated with shipping a printer to the repair depot when nothing is physically wrong.

Easily Manage All Your Printers—All from a Single Location
With our comprehensive and flexible remote management tools, you can maintain, secure and troubleshoot printers simply and easily, from anywhere, anytime. Use the free Printer Setup Utilities to simplify setup and out-of-the-box configuration tasks. And with the optional Printer Profile Manager Enterprise, you can manage one printer, a group of specific printers or all printers anywhere in the world. This browser-based solution lets you instantly discover every Link-OS printer on your network—there's no need to manually track down, configure or troubleshoot printers.

Seamless Integration with Your Device Management System
Get the simplicity of a single-pane-of-glass to manage all your Zebra mobile devices and printers—including the ZQ600/ZQ600 Plus Series. With Print DNA's MDM Connectors, you can easily integrate networked ZQ600/ZQ600 Plus Series printers into your existing AirWatch or SOTI MobiControl device management system. And if you are using Ivanti Avalanche (powered by Wavelink), the ZQ600/ZQ600 Plus Series offers support for Avalanche right out of the box.

Ensure Continued Reliability with Printhead Diagnostics
With the ZQ600/ZQ600 Plus Series, you don't need to worry about downtime from a worn-out printhead. Our unique Printhead Diagnostics provide visibility into the health of printheads across your deployment, enabling you to take action before productivity is impacted.

Protect Sensitive Customer and Business Data with PrintSecure
This complimentary Print DNA utility makes it easy to configure over 30 settings to fine-tune printer security to protect your data and your infrastructure by creating secure printer connections and blocking unauthorized printer access.

Consistently Exceptional Zebra Certified Supplies
We design, produce and rigorously pre-test our own line of thermal printing supplies to ensure consistent, optimized performance in your Zebra printer. For industry-leading quality, service and thermal printing expertise, choose Zebra Certified Supplies.

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.

ZQ600/ZQ600 Plus Accessories

The ZQ600/ZQ600 Plus Series offers all the accessories you need, from power and charging to carrying and protection options, cables and more. Please refer to the Mobile Printer Accessory Guide, found on Zebra.com, for all the accessories available for the ZQ600/ZQ600 Plus Series.

Lithium-Ion Charging Accessories

Ethernet Cradle

Connect ZQ600/ZQ600 Plus Series printers to your wired Ethernet network via the ZQ600 Series Ethernet cradle to enable easy remote management by your IT or operations staff—helping to ensure each printer is operating optimally and ready for use. The Ethernet cradle can communicate over 10 Mbps or 100 Mbps networks using auto-sense.

The single-bay ZQ600 Series Ethernet cradle also charges the battery while it is in the printer, while the 4-bay version (with optional wall mount kit) charges four printers at a time. The 4-bay version includes an internal Ethernet switch and second Ethernet port, so you can link and manage four 4-bay Ethernet cradles (a total of 16 printers) from one port.

The printer remains fully functional so you can print while it is in either cradle. The cradle's LED lights indicate DC power and Ethernet-link status.

Remote printer management over your Ethernet allows:

- Battery management for monitoring battery health.
- Firmware management for updating printer firmware.
- Print management for updating templates, fonts and graphics.
- Device management for updating startup (e.g., config. sys), WML (front panel) or HTML (browser) files.
- Network management for updating encryption keys or certificate files.
- Problem resolution and troubleshooting local printer issues that may otherwise require the printer to be sent in for repair.
- Ability to manage Bluetooth printers, which traditionally have been off-network.

AC Adapter

Connect the AC adapter to your ZQ600/ZQ600 Plus Series printer and wall outlet to charge the printer's PowerPrecision+ battery while in the printer. The printer can print labels and perform other functions during charging. Shown with printer for reference purposes; printer is not included.

Cradle

Dock and charge a single ZQ600/ZQ600 Plus Series printer in a vehicle or on a forklift. Includes 15-60V DC power supply.
Can be optionally used with a RAM Arm mount.[1]

Battery Chargers

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

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

Dual 3-Slot Battery Charger with Y Cable Connection: Dock and charge up to six PowerPrecision+ Li-Ion printer batteries at a time. The dual 3-slot battery charger ships with a power supply, Y-Cable and country specific power cord. Requires the appropriate line cord for your region.

Continued on following page

ZQ600/ZQ600 Plus Accessories (continued)

Lithium-Ion Charging Accessories (continued)

Extended Capacity PowerPrecision+ Battery

Only available on ZQ610 & ZQ620

The Extended Capacity PowerPrecision+ battery option provides enhanced battery capacity over the standard PowerPrecision+ battery, providing more power for increased uptime. No need to upgrade your ZQ600/ZQ600 Plus Series printer to accommodate the extended battery—just purchase as a standalone accessory to use with your current ZQ600/ZQ600 Plus Series printer or, order it as a configurable printer option so your printer ships ready to go with this powerful accessory. The choice is yours.

Carrying Straps/Cases

Hand Strap: Allows the printer to be carried by hand.

Shoulder Strap: Allows the printer to be carried over the shoulder.

Soft Case: Add an extra layer of protection for harsh environments with a soft case. While in the case, the printer is IP54-rated for resistance to windblown water and dust. Case provides openings for changing the media and batteries and all connectors are accessible. Includes shoulder strap.

Hard Case: Add an extra layer of protection from abrasion in harsh environments with a hard case. Includes metal belt clip.[1]

Specifications

Standard Features

- Apple® iOS, Android™ and Windows® Mobile connectivity
- Direct thermal printing of barcodes, text and graphics
- CPCL, EPL™ and ZPL® programming languages
- 512 MB Flash supports downloadable programs, receipt formats, fonts and graphics (128 MB available for user storage)
- ZQ620/ZQ620 Plus & ZQ610/ZQ610 Plus: 3250 mAh (nominal) 23.4 Wh removable, rechargeable PowerPrecision+ Li-Ion battery
  ZQ630/ZQ630 Plus: 6800 mAh (nominal) 49.4 Wh removable, rechargeable PowerPrecision + Li-Ion battery
- Built-in battery charger
- Belt clip for unobtrusive and convenient printing (not compatible with extended capacity battery)
- Black mark and gap media sensing using fixed center position sensors
- Easy-to-use peel and present mode
- Label present sensor for issuing labels one at a time
- Tear bar for easy media dispensing
- Center-loading media locking for variable roll widths
- "Clamshell" design for easy media loading
- Management: Mirror, SNMP, Web server, Profile Manager, AirWatch®, SOTI® MobiControl™ and Ivanti Avalanche® (powered by Wavelink)
- Large, easy-to-read color display (288 x 240 pixels)
- Color display can be customized using WML (text and icons)
- 5-way navigation buttons, two software defined keys
- Printer color alerts on the display
- Tolerance of multiple drops from 5 ft./1.52 m (ZQ620/ZQ620 Plus & ZQ610/ZQ610 Plus) and 6 ft./1.83 m (ZQ630/ZQ630 Plus) to concrete[2]
- IP54 dust and water resistance rating
- 400 MHz 32-bit ARM processor
- XML support
- Supports vertical and horizontal printing
- Printers can be used in any orientation
- QR barcode links to web-based help pages
- Zebra Print Touch simplifies Bluetooth pairing and launches web-based help pages with Near Field Communication (NFC) enabled devices
- Label odometer
- NTP (Network Time Protocol) support via Wi-Fi or Ethernet
- Supports Zebra Network Connect manufacturing plant floor solution when used with the Ethernet cradle
- RFID is available on the ZQ630/ZQ630 Plus as a separate product (please see the ZQ630/ZQ630 Plus RFID Spec Sheet for more information)

Physical Characteristics

Dimensions	ZQ610/ZQ610 Plus: 6.73 in. L x 3.6 in. W x 2.85 in. H 170.9 mm L x 91.4 mm W x 72.4 mm H ZQ620/ZQ620 Plus: 6.84 in. L x 4.64 in. W x 3.03 in. H 173.7 mm L x 117.9 mm W x 76.9 mm H ZQ630/ZQ630 Plus: 7.35 in. L x 6.5 in. W x 3.25 in. H 186.7 mm L x 165.1 mm W x 82.5 mm H Note: The Extended Capacity Li-Ion smart battery option adds 0.6 in./16 mm to the height of either ZQ600/ZQ600 Plus Series printer.
Weight with battery	ZQ610/ZQ610 Plus: 1.33 lbs/0.6 kg ZQ620/ZQ620 Plus: 1.6 lbs/0.73 kg ZQ630/ZQ630 Plus: 2.45 lbs/1.1 kg

Printer Specifications

Operating System	Link-OS®
Resolution	203 dpi/8 dots per mm
Memory	256 MB RAM; 512 MB Flash (standard)
Maximum Print Width	ZQ610/ZQ610 Plus: 1.9 in./48 mm ZQ620/ZQ620 Plus: 2.8 in./72 mm ZQ630/ZQ630 Plus: 4.1 in./104 mm
Maximum Print Speed	Up to 4.5 in./115 mm per second
Media Sensors	Black mark and gap media sensing using fixed center position sensors; label present sensor for issuing batch labels one at a time
Print Length	Minimum: 0.5 in./12.7 mm Maximum: 32 in./813 mm
Power	ZQ610/ZQ610 Plus & ZQ620/ZQ620 Plus: 3250 mAh (nominal) 23.4 Wh removable, rechargeable PowerPrecision+ Li-Ion battery ZQ630/ZQ630 Plus: 6800 mAh (nominal) 49.4 Wh removable PowerPrecision+ Li-Ion battery

Media Characteristics

Label and Liner Length	0.5 in./12.7 mm to 32 in./813 mm or continuous
Media Width	ZQ610/ZQ610 Plus: 1.0 in./25 mm to 2.18 in./55.4 mm ZQ620/ZQ620 Plus: 1.0 in./25 mm to 3.125 in./79 mm ZQ630/ZQ630 Plus: 2.0 in./51 mm to 4.4 in./112 mm (linered) 2.0 in./51 mm to 4.1 in./104 mm (linerless)
Maximum Media Roll Size	ZQ610/ZQ610 Plus: 2.2 in./55.9 mm OD on a 0.75 in./19 mm or 1.375 in./34.9 mm inner core ZQ620/ZQ620 Plus: 2.6 in./66 mm OD on a 0.75 in./19 mm or 1.375 in./34.9 mm inner core ZQ630/ZQ630 Plus: 2.6 in./66 mm O.D. on a 0.75 in./19 mm or 1.375 in./34.9 mm inner core
Thickness	2.3 mil to 5.5 mil tag stock or 6.5 mil label stock
Media Types	Die-cut labels and tags, linerless labels, receipt paper, RFID (ZQ630/ZQ630 Plus RFID compatible), black bar and gap

Operating Characteristics

Environment	Operating Temp.: -4°F to 122°F/-20°C to 50°C Operating Humidity: 10% to 90% non-condensing Storage/Transportation Temp.: -13°F to 149°F/-25°C to 65°C[1] Storage Humidity: 10% to 90% non-condensing
Agency Approvals	Emissions: FCC Part 15, Subpart B, EN55022 Class-B, EN60950, EN55024 and VCCI class B Susceptibility: EN55024, EN61000-4-2, EN61000-4-3, EN61000-4-4, and EN61000-4-5 Safety: CE, TUV, CSA
Security	FIPS support is available at no cost as a printer OS download. Please contact your Zebra Sales Representative for further information.

Firmware

CPCL, EPL and ZPL programming languages

ZBI 2.x™—powerful programming language that lets printers run standalone applications, connect to peripherals, and much more

Markets and Applications

Retail

- Shelf Edge Labels
- Mark Down Labels
- Replacement Tags
- Mobile Point of Sale Receipts
- Return Labels

Manufacturing/ Warehouse

- Pick and Pack Labels /Lists
- Raw Materials
- Finished Goods
- RFID Case/Pallet Labels[1]

Transportation & Logistics

- Receiving
- Put Away
- Reverse Logistics Inventory Management
- Cycle Count
- Cross-Docking
- Picking
- Staging
- Packing
- Shipping

Barcode Symbologies

Barcode Ratios: 1.5:1, 2:1, 2.5:1, 3:1, 3.5:1

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

2D Barcodes: PDF417, MicroPDF417, MaxiCode, QR Code, GS1/DataBar™ (RSS) family, Aztec, MSI/ Plessey, FIM Postnet, Data Matrix, TLC39

Fonts and Graphics

Standard Fonts: 25 bitmapped, 1 smooth, scalable (CG Triumvirate Bold Condensed[1])
Optional Fonts: downloadable bitmapped/scalable fonts
International Character Sets (optional): Chinese (traditional/simplified); Japanese; Korean; Thai, Vietnamese
[1]Contains UFST® from Agfa Monotype Corporation

Communication and Interface Capabilities

ZebraNet® 802.11ac radio with support for:
- TKIP and AES encryption
- WPA and WPA2
- 802.1x (with WPA or WPA2)
- EAP-FAST, EAP-TTLS, EAP-TLS, PEAP, LEAP
- 802.11d and 802.11i
- Simultaneous Bluetooth 4.2 dual radio
- Wi-Fi Certification
- Fast roaming using Pairwise Master Key (PMK) caching, Opportunistic Key Caching (OKC), EAP Fast Session resumption or 802.11r

Bluetooth 4.2 (Classic and BLE) radio
- Security modes 1–4
- "Made for iPod/iPhone/iPad" certified
- Key Bonding

10/100 Ethernet support (via charging cradle)

Cabled Communications Specifications
- USB 2.0 full-speed interface (12 Mbps)
- Mini-B connector with optional strain relief
- Serial interface: 14-pin RS-232C port for communication to terminal or other host up to 115.2 Kbps

Print DNA Software

Durable printers are essential, but it's the software inside that will keep them in action. That's why we built Zebra Print DNA into our printers. It's a suite of software capabilities that give you the ability to optimize printer performance over their entire lifecycle even as your business needs evolve. For more information, please visit www.zebra.com/printdna

Product Warranty

The ZQ600 and ZQ600 Plus Series printers are warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For the complete warranty statement, please visit www.zebra.com/warranty

Recommended Services

Zebra OneCare Essential and Select Services maximize the availability and productivity of your devices. Key features include 24/7 technical support, comprehensive coverage, advance replacement and software updates. Optional Visibility Services are available. For more information go to www.zebra.com/zebraonecare (Note: Service availability may vary by region.)

Footnotes

1. Only available on the ZQ630/ZQ630 Plus
2. Tested per MIL-STD-810G

Features are subject to availability. Specifications are subject to change without notice.

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