ZQ110 Mobile Printer

Specifications are provided for reference and are based on printer tests using genuine Zebra® supplies. Results may vary in actual application settings or when using other-than-recommended Zebra supplies. Zebra recommends always qualifying any application with thorough testing.

STANDARD FEATURES

- Apple® iOS, Android™ and Windows® Mobile connectivity
- Direct thermal printing of barcodes, text and graphics
- 203 dpi resolution (8 dots per mm)
- Print speed per second up to 3.5" (90 mm per second)
- ESC / POS programming language
- Resident fonts
- 100 MHz 32-bit
- 256 KB Flash supports downloadable programs, receipt formats, fonts and graphics; 128 KB Receive Buffer
- USB port
- 1200 mAh battery
- Optical out of media sensing using fixed center position sensor
- Belt clip for unobtrusive and convenient printing
- Tear bar for easy receipt dispensing
- Supports vertical and horizontal printing
- Printer can be used in any orientation
- Fixed media roll width
- "Clamshell" design for easy media loading
- Six LEDs as User Interface indicators
- Tolerance of multiple drops from 4' (1.2 m) to concrete
- Bluetooth® 3.0 + EDR
  - Security modes 1-4
  - Key bonding
  - "Made for iPod® / iPhone® / iPad®" (MFi) certified
  - Bluetooth printing from Apple devices

PRODUCT AVAILABLILITY

ZQ110™ is available in the following versions:

- Bluetooth only
- Bluetooth + Magnetic Stripe Reader*
- Wi-Fi® (802.11b/g/n) only
- Wi-Fi (802.11b/g/n) + Magnetic Stripe Reader*

*Magnetic Stripe Reader (3 track): data encrypted by printer F/W; triple DES

CHARGING OPTIONS

Inside the Printer

- AC adapter (included)
- Lighter adapter
- Single docking cradle**
- Quad docking cradle**

Outside the Printer

- Single battery charger
- Quad battery charger

**Requires battery with outer contacts

ACCESSORIES

Included with ZQ110

- AC adapter
- Belt clip
- Power cord
- (1) Standard Battery
- (1) Roll of receipt media

Charging

- 12-24V DC power supply:
  - Charges printer via vehicle lighter power adapter
  - Connects to barrel jack on printer
- Spare batteries:
  - Standard battery used with printer and single / quad battery charger
  - Battery with outer contacts used with single bay charging cradle / 4-bay power station
- Single battery charger:
  - Docks and charges a single ZQ110 battery
  - AC adapter / line cord ships in printer box
- Quad battery charger:
  - Docks and charges up to four ZQ110 Li-Ion batteries at a time
  - Batteries with and without external charging contacts can be charged
  - Power supply ships with the quad charger
  - Select the part number with the appropriate line cord option for your region
- Single bay charging cradle:
  - Requires battery with outer contacts
  - Compatible with ZQ110 AC adapter and power cord
- 4-bay printer power station:
  - Docks and charges up to four ZQ110 Series printers simultaneously
  - Power supply ships with the 4-bay power station
  - Only batteries with external charging contacts can be charged
  - Select the part number with the appropriate line cord option for your region

Carrying

- Spare belt clip (quantity 1)
  - Replacement belt clip
- Velcro belt strap
  - Alternative to standard belt clip which uses hook and loop clasp
- Shoulder strap (to be used with the durability enhancing case)

Additional Options

- Durability Enhancing 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
  - Shoulder strap ordered separately
- USB cable
  - Connect ZQ110 to a laptop for setup / configuration via this USB cable
- Vehicle holder

OPTIONAL FEATURES

- Bluetooth 3.0 radio + EDR (standard):
  - Security modes 1-4
  - Key bonding
  - MFi certified
  - Bluetooth printing from Apple devices
- 802.11b/g/n WLAN; 2.4 GHz:
  - Wi-Fi Direct, Infrastructure, Ad Hoc
  - WEP 64 / 128 bits
  - AES, TKIP, AES +TKIP
  - WPA1 / WPA2 PSK
  - 802.1X WPA1 / WPA2 (EAP-PEAP, EAP-LEAP, EAP-TTLS, EAP-FAST, EAP-TLS)

SOFTWARE

- Windows® SDK: XP, Vista, 7, 8
- Windows CE SDK: Windows CE 5.0 / 6.0, Windows Mobile 5.0 / 6.x
- Windows Driver: XP, WEPOS, Vista, Server 2003, Server 2008, Server 2008R2, 7, 8, Sever 2012
- OPOS Driver: XP, WEPOS, Vista, Server 2003, Server 2008, Server 2008R2, 7, 8, Sever 2012
- Android SDK and Utility (Android 2.2 and later)
- iOS SDK and Utility: iOS 5.1.1 / iPod Touch® 2G and later
- Win PDA Utility: Windows CE 5.0 / 6.0, Windows Mobile 5.0 / 6.x
- Unified Mobile Utility: XP, WEPOS, Vista, Server 2003, 7, 8
- Net Configuration Tool: XP, WEPOS, Vista, Server 2003, Server 2008, 7, 8

PHYSICAL SPECIFICATIONS

Attribute	ZD500R
Height	1.48" (37.7 mm)
Width	3.15" (80.1 mm)
Length	4.68" (118.8 mm)
Weight*	0.50 lbs. (0.23 kg)

*Weight reflects standard Bluetooth ZQ110 with battery. Optional ZQ110 models (MSR, Wi-Fi) may vary in weight.

PROGRAMMING LANGUAGE: ESC / POS FONT SPECIFICATIONS 203 DPI (8 DOTS / MM)

Font	Matrix (in dots) (H × W)	Number of Columns (characters per line)
Font A	12 x 24	32
Font B	9 x 17	42
Font C	9 x 24	42
Korean	24 x 24	16
Chinese	24 x 24	16

CHARACTER SET

• Alpha Numeric Characters: 95

• Extended Graphic Pages: Standard (ENG): 128 x 33

• International Characters: 32

BARCODE SYMBOLOGIES

Linear Barcodes		2D Barcodes
EAN-8	ITF	PDF417
EAN-13	Coda Bar	Data Matrix
Code39	UPC-A	AZTEC
Code93	UPC	QR Code
Code128		

MEDIA SPECIFICATIONS

NOTE: For optimum print quality and printer performance, use of genuine Zebra supplies is recommended.

Attribute	ZQ110
Media Width	2.25" +/- 0.05"; (57 mm +/- 1 mm)
Maximum Print Width	1.89" (48 mm)
Maximum Print Length	Continuous
Maximum Media Roll OD	1.18" (30 mm)
Maximum Media Thickness	0.10 mm (0.06~0.10 mm)
Media Types	Direct-thermal receipt paper or liner-less paper

CABLED COMMUNICATION SPECIFICATIONS

USB 2.0 Full Speed Interface (12 Mbps)

ZEBRA-VALIDATED SOLUTIONS

Zebra Independent Software Vendor (ISV) Partners create industry-leading software solutions to solve business problems, and Zebra works closely with these ISVs to develop a testing protocol for incorporating Zebra devices into the applications they develop. Zebra-validated program information can be found at zebra.com/validation.

APPLICATION FLEXIBILITY

ZQ110 printers are designed to support a wide variety of applications. Please consult the programming manuals for configuration details. Zebra recommends qualifying any application with thorough testing.

ENVIRONMENTAL SPECIFICATIONS

- Operating Temperature: 5°F (-15°C) to 122°F (50°C)
- Charging Temperature: 32°F (0°C) to 104°F (40°C)
- Storage Temperature: -22°F (-30°C) to 158°F (70°C)
- Relative Humidity:
  - Operation: 10% to 80% non-condensing
  - Storage: 10% to 90% non-condensing
- IP Rating: IP54 with durability enhancing case
- Drop Spec: 4' (1.2m) drop to concrete

ELECTRICAL SPECIFICATIONS

- Battery: 7.4 V, 1.2 AH (nominal), rechargeable Li-Ion
  - Life: 300 Cycles (full charge and discharge) recommended, 500 cycles maximum
  - Charge time: 2.5 hours

AGENCY APPROVALS

- Emissions: FCC Part 15, Subpart B, EN55022 Class-B, EN55024
- Susceptibility: EN55024, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5
- Safety: CE, UL, CB
- International Marks: CE, FCC, NOM, CCC, RCM, Anatel, BIS, NTC, KCC, BSMI, iDA

PREVENTATIVE MAINTENANCE

Zebra recommends cleaning ZQ110 printers on a regular basis using standard Zebra printer parts and cleaning supplies. Consult your User's Guide for further details.

- **Cleaning** — The exterior is cleaned with a lint-free cloth and, if necessary, a mild detergent solution or desktop cleaner. Interior components are cleaned with 70% isopropyl alcohol (IPA) or blown air to remove any particles.
- **Battery** — It is recommended that the battery be fully discharged several times by cycling it to maximize performance.

For more information, visit www.zebra.com/zq110

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