Zebra® ZT410

ZT410 printing a 4" Full Face blood bank label

ZT410 rear view showing Ethernet connectivity

Factory or field installable UHF RFID encoder enables greater tracking abilities, and deeper visibility
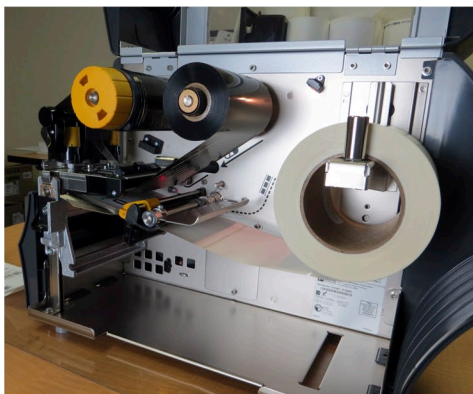
The Zebra® ZT410 printer, with proprietary Digi-Trax® firmware, is a critical component of our HemaTrax® ISBT 128 blood bank labeling system.

The printer is the latest in a series of Zebra models that incorporates advancements in print speed, print quality and connectivity options such as standard USB, serial, Ethernet and Bluetooth capabilities.

Constructed using an all metal frame and bi-fold door, this printer fits well in small spaces.

Featuring Zebra's Link-OS® environment, an innovative operating system, it integrates seamlessly with HemaTrax to print clear, legible and durable ISBT 128 labels for all your blood bank processes. Our label adhesive conforms to FDA CFR 21, Sec. 175.105. and FDA CFR 21, Sec. 177.172 for the label facestock.

Digi-Trax® offers the Zebra ZT410 at a competitive price along with complete technical support, repair services and operator training. Look to us for all of your ISBT 128 blood bank labeling needs.

Labels & ribbon load easily in the ZT410

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DIGI-TRAX®
identify your future

Specifications at a glance
Zebra ZT series

Printer Name

ZT410
ZT420

RFID

- Integrated RFID system is user-upgradable in the field
- Prints and encodes tags with a minimum pitch of 0.6"/16 mm
- Supports tags compatible with UHF EPC Gen 2 V1.2/ISO 18000-6C
- Compliant with Global RFID radio to support multinational deployments
- Automatically eliminate complex RFID placement guidelines with adaptive encoding technology
- Variable inlay placement supports a range of inlay positions for maximum media flexibility
- Track performance with RFID job-monitoring tools
- Support for industry standard multi-vendor chip-based serialization (MCS)
- Supports block permalocking of user memory compatible with ATA Spec 2000
- Integrated ThingMagic® RFID reader/encoder

Standard Features

- Print Methods: Thermal transfer and direct thermal
- Construction: Metal frame and bi-fold metal media cover with enlarged clear viewing window
- Side-loading supplies path for simplified media and ribbon loading
- Element Energy Equalizer™ (E³™) for superior print quality
- Communications: USB 2.0, high-speed, RS-232 Serial, 10/100 Ethernet, Bluetooth 2.1, USB Host
- Back-lit, multiline graphic LCD display with intuitive menu and easy-to-use keypad for quick operation
- Bi-colored status LEDs for quick printer status
- ENERGY STAR® qualified

Printer Specifications

Resolution

- 203 dpi/8 dots per mm
- 300 dpi/12 dots per mm (optional)
- 600 dpi/24 dots per mm (optional for ZT410 only)

Memory

- 256 MB RAM memory (4 MB user available)
- 512 MB Flash memory (64 MB user available)

Maximum Print Width

4.09"/104 mm (ZT410)
6.6"/168 mm (ZT420)

Maximum Print Speed

14 ips/356 mm per second (ZT410)
12 ips/305 mm per second (ZT420)

Media Sensors

Dual media sensors: transmissive and reflective

Media Characteristics

Media web width (label and liner):
- ZT410
  - 1.00"/25.4 mm to 4.5"/114 mm tear/cutter
  - 1.00"/25.4 mm to 4.25"/108 mm peel/rewind
- ZT420
  - 2.00"/51 mm to 7.0"/178 mm tear/cutter
  - 2.00"/51 mm to 6.75"/171 mm peel/rewind

Maximum non-continuous label length: 39"/991 mm

Print Length

- 203 dpi: 157"/3988 mm
- 300 dpi: 73"/1854 mm
- 600 dpi: 39"/991 mm

Maximum Media Roll Size

8.0"/203 mm O.D. on a 3"/76 mm I.D. core

Media Thickness

0.0023"/0.058 mm to 0.010"/0.25 mm

Media Types

Continuous, die-cut, notch, black-mark

Ribbon Characteristics

(Thermal-transfer option only)

Outside Diameter

450 m: 3.2"/81.3 mm O.D. on a 1.0"/25.4 mm I.D. core

Standard Length

1476'/450 m

Width

2.00"/51 mm to 4.33"/110 mm

Ribbon Setup

Ribbon wound ink-side out; ribbon wound ink-side in can be used with the optional ribbon spindle

Operating Characteristics

Environmental

- Operating Environment:
  - Thermal transfer: 40º to 104ºF/5º to 40ºC
  - Thermal direct: 32º to 104ºF/0º to 40ºC
  - 20% to 85% non-condensing R.H.
- Storage/Transportation Environment:
  - -40º to 140ºF/-40º to 60ºC
  - 5% to 85% non-condensing R.H.

Electrical

- Auto-detectable (PFC Compliant) 100-240VAC, 50-60Hz, rated at 100 Watts
- ENERGY STAR qualified

Agency Approvals

- IEC 60950, EN 55022 Class B, EN 55024, EN 61000-3-2, EN 61000-3-3
- cTUVus, CE Marking, FCC-B, ICES-003, VCCI, C-Tick, NOM, S-Mark (Arg), CCC, CU, BSMI, KCC, SABS, IN-Metro

Physical Characteristics

	ZT410 closed	ZT420 closed
Width:	10.6"/269 mm	13.25"/336.55 mm
Height:	12.75"/324 mm	12.75"/324 mm
Depth:	19.50"/495 mm	19.50"/495 mm
Weight:	36 lb./16.33 Kg	40 lb./18.14 Kg

Options and Accessories

Communication

- Parallel (Bi-directional interface)
- Wireless: ZebraNet® Printer Server – supports 802.11 a/b/g/n networks via an internally integrated option that enables the use of Webview and Alert features

Media Handling

- Rewind: Internally rewinds a full roll of printed labels on 3" core, or peels and rewinds liner (Factory installed only)
- Peel: Front-mount, passive peel option

- Peel: Liner take-up option – additional full-roll liner take-up spindle accommodates standard printer base
- Cutter: Front-mount guillotine cutter and catch tray
- 1" I.D. Core media supply hanger
- Ink-side in ribbon supply spindle

Keyboard Display Unit

Supports KDU Plus™ and ZKDU: Enter variable data and retrieve stored forms for standalone applications

Link-OS Solutions

Software Tools

- Document Design: Quickly design a customized print solution using your business data and Zebra's intuitive, plug-and-print design tools.
- Device Integration: Zebra offers apps and products designed to help you integrate Zebra devices into your existing systems.
- Device Management: Manage your print operations locally and globally with Zebra's suite of device management tools.
- Developer Tools: Provides you the tools you need to create your own apps, including documentation, source code, programming languages, templates and more.

Firmware

- Resident ZPL, ZPL II® and EPL programming languages, selectable through software or front panel.
- XML-enabled Printing — allows XML communications for barcode label printing.

Barcode Symbologies

- Linear Barcodes: Code 11, Code 39, Code 93, Code 128 with subsets A/B/C and UCC Case Codes, ISBT-128, UPC-A, UPC-E, EAN-8, EAN-13, UPC and EAN 2- or 5-digit extensions, Plessey, Postnet, Standard 2-of-5, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Codabar, Planet Code
- 2-Dimensional Barcodes: Codablock, PDF417, Code 49, DataMatrix, MaxiCode, QR Code, TLC 39, MicroPDF, RSS-14 (and composite), Aztec

Fonts and Graphics

- 16 resident expandable ZPL II bitmap and two resident scalable ZPL fonts
- Asian and other international scalable and smooth bitmapped fonts
- Unicode: For multi-language printing
- Downloadable objects include graphics, scalable and bitmap fonts, label templates and formats
- IBM Code Page 850 international character sets are available in the fonts A, B, C, D, E, F, G and 0 through software control
- Code Page 1250, 1252, 1253, 1254, 1255 Support with font 0

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