



# Zebra® ZT400™ Series



SEE MORE. DO MORE.



Keep your critical operations running efficiently with Zebra's durable ZT400 Series printers, designed for years of performance in a wide array of applications.

The ZT400 Series builds on the field-proven reliability of the Z Series™ with advancements in print speed, print quality and connectivity options. Designed for ease of use, the ZT400 Series printers offer an intuitive icon-based LCD graphical user interface and easy-loaded supplies. And, they also include standard USB, Serial, Ethernet and Bluetooth® capabilities. Expanded RFID capacities deliver greater tracking abilities, deeper visibility and enterprise insights.

The ZT400 Series is offered in both 104mm (4") and 168mm (6") models and comes standard with an extensive set of advanced features that ensure your printer investment will always meet your needs, now and in the future. Constructed using an all-metal frame and bi-fold door, this printer is designed to fit well in space-constrained environments.

Featuring Zebra's Link-OS® environment – an innovative operating system combining a powerful Multiplatform Software Development Kit (SDK) and software applications – ZT400 Series printers are easy to integrate, manage and maintain from any location around the globe.

## Ideal for These Applications

**Manufacturing:** work-in-process, product ID/serial numbers, packaging labels, receiving/put-away labelling

**Transportation & Logistics:** order picking/packing, shipping/receiving, cross-docking, compliance labelling

**Retail:** distribution centers, back-of-store operations

**Healthcare:** laboratory labels, blood-bank labels, asset tracking, pharmacy labelling

**Link-OS®**

# SPECIFICATIONS AT A GLANCE\*

## Printer Name

ZT410  
ZT420

## Standard Features

- Print Methods: Thermal transfer and direct thermal printing
- 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-coloured 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

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

### Maximum Print Speed

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

### Media Sensors

Dual media sensors: transmissive and reflective

### Media Characteristics

Media width (label and liner):

- ZT410
  - 25.4mm/1.00" to 114mm/4.5" tear/cutter
  - 25.4mm/1.00" to 108mm/4.25" peel/rewind
- ZT420
  - 51mm/2.00" to 178mm/7.0" tear/cutter
  - 51mm/2.00" to 171mm/6.75" peel/rewind

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

### Print Length

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

### Maximum Media Roll Size

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

### Media Thickness

0.058mm/0.0023" to 0.25mm/0.010"

### Media Types

Continuous, die-cut, notch, black-mark

## Ribbon Characteristics

(Thermal-transfer option only)

### Outside Diameter

81.3mm/3.2" O.D. on a 25.4mm/1.0" core

### Standard Length

450 m/1476'

### Width

51mm/2.00" to 110mm/4.33"

### 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: 5° to 40°C/40° to 104°F
  - Thermal direct: 0° to 40°C/32° to 104°F
  - 20% to 85% non-condensing R.H.
- Storage/Transportation Environment:
  - -40° to 60°C/-40° to 140°F/
  - 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, EN55024, 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:	269mm/10.6"	336.55mm/13.25"
Height:	324mm/12.75"	324mm/12.75"
Depth:	495mm/19.50"	495mm/19.50"
Weight:	16.33 kg/36 lb.	18.14 kg/40 lb.

## 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 76mm (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
- 25.4mm (1") I.D. Core media supply hanger
- Ink-side in ribbon supply spindle

## RFID

- Supports tags compatible with UHF EPC Gen 2 V1.2/ISO 18000-6C
- Integrated RFID system is user-upgradable in the field and available on both 104mm and 168mm models
- Adaptive Encoding Technology automatically selects optimum encode settings

## 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 Symbolologies

- 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 O through software control
- Code Page 1250, 1252, 1253, 1254, 1255 Support with font O



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