

# Zebra<sup>®</sup> ZT400<sup>®</sup> 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<sup>®</sup> 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 supplies loading. And, they include standard USB, Serial, Ethernet and Bluetooth<sup>®</sup> capabilities. Expanded RFID capacities deliver greater tracking abilities, deeper visibility and enterprise insights.

The ZT400 Series is offered in both 4<sup>in</sup> and 6<sup>in</sup> 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<sup>®</sup> environment<sup>™</sup> an innovative operating system combining a powerful Multiplatform Software Development Kit (SDK) and software applications<sup>™</sup> 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 labeling

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

Retail: distribution centers, back-of-store operations

Healthcare: laboratory labels, blood-bank labels, asset tracking, pharmacy labeling

**Link-OS<sup>®</sup>**

# ADVANCED INDUSTRIAL PRINTING. RUGGED DURABILITY. LOADED WITH FEATURES.

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Designed to grow with your evolving business needs. The ZT400 features increased processing capabilities and an open operating architecture providing flexibility to support your ever-growing and changing application requirements.

## Application Flexibility

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- Expand your printing readiness through an exceptional range of media capabilities and media delivery options.
- Customize your printer to match your current and future business needs with end-user-installable media handling options.
- Standard Serial, USB, Ethernet and Bluetooth features□ as well as two open media slots□ allow you to utilize non-standard connectivity options.
- Expanded RFID capabilities are easy to install and simple to use.
- Ensure quality output for small-label applications with high-resolution printing capabilities.

## Effortless to Integrate

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- USB host port enables simple printer configuration by easily transferring data from a USB flash drive via mirroring and expanded mapped-drive memory capabilities.
- Virtual Devices apps enable Link-OS printers to support well-known legacy and competitor printer languages□ in addition to ZPL□ and EPL□□ for a future-proofed investment.

## Easy to Operate

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- Dynamic QR codes provide on-demand, web-based support to resolve printer errors quickly.
- Print Touch-enabled Link-OS printers offer web page launching features using Near Field Communication (NFC), making it easy to access Zebra's extensive knowledge base of how-to videos and product support.
- Lighted media and ribbon paths make it easy to see inside the printer, even in poorly lit environments.

## Simple to Manage



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- Zebra's Link-OS environment delivers enhanced capabilities to monitor, manage and maintain your printer from any location.
- Cloud Connect allows Link-OS printers to securely and directly interact with the Cloud for printing and device management.
- Profile Manager enables you to edit and manage one printer, batches of printers or all Link-OS printers across your network anywhere in the world.



# COMPARING THE ZT410<sup>□</sup> AND ZT420<sup>□</sup>

The ZT400 Series offers two models: the ZT410 and the ZT420. Compare the features to see which printer best suits your needs.

	ZT410	ZT420
		
Maximum print width	4 <sup>□</sup>	6 <sup>□</sup>
Maximum ribbon length	450 m	450 m
Maximum print speed	14 ips	12 ips
User Interface	LCD	LCD
Print resolution	203, 300, 600 dpi	203 and 300 dpi
Printer control language	ZPL, EPL, others	ZPL, EPL, others

## ZebraCare™ Services

Increase printer uptime and reduce lost productivity and unbudgeted repair costs by selecting a ZebraCare service agreement. A cost-effective means of planning and budgeting for your annual maintenance expenditures, your agreement ensures that trained Zebra technicians will bring your printer back to factory specifications. Zebra offers a variety of plans to <sup>□</sup> your budget and business needs.

## Genuine Zebra™ Supplies

As one of the largest thermal supplies manufacturers in North America, Zebra provides convenient shipping throughout the region via our four manufacturing locations.

Zebra provides high-quality supplies solutions for virtually any application:

- <sup>□</sup> The largest selection of pre-tested, labels, tags and ribbons for your ZT400 printer.
- <sup>□</sup> Ability to create custom labels in any size with pre-printed text, graphics and logos.
- <sup>□</sup> Supplies extensively tested to ensure print quality, chemical resistance and adhesive strength.
- <sup>□</sup> ISO 9001:2008 certified





# 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-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: 40° to 104°F/5° to 40°C
  - Thermal direct: 32° to 104°F/0° to 40°C
  - 20% to 85% non-condensing R.H.
- Storage/Transportation Environment:
  - -40° to 140°F/-40° to 60°C
  - 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

## 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 4" and 6" 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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\*Specifications subject to change without notice.

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P1071709 (3/14)