



ZEBRA

# ZT400 Series Industrial Printers

## KEEP YOUR CRITICAL OPERATIONS RUNNING EFFICIENTLY

Zebra's durable ZT400™ Series printers are designed for years of performance in a wide array of applications. Building on the field-proven reliability of the Z Series™, ZT400 Series printers feature advancements in print speed, print quality and connectivity options.



ZT410™



ZT420™

### Zebra OneCare Services

Increase printer uptime, and reduce lost productivity and unbudgeted repair costs, by selecting a Zebra® OneCare service agreement. A cost-effective means of planning and budgeting 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 fit your budget and business needs.

### Genuine Zebra Supplies

Ensure consistent print quality, reduce downtime and increase productivity in your printing process with genuine Zebra supplies. We manufacture each supplies product with the exact same materials every time so you always get crisp, readable and scannable output without needing to adjust the printer darkness setting between rolls.

## Rugged. Loaded with Features. Simple to Operate.

Designed for ease of use, 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® connectivity. Expanded RFID capacities deliver greater tracking abilities, deeper visibility and enterprise insights.

The ZT400 Series is offered in both 4" and 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, these printers are designed to easily fit in space-constrained environments. ENERGY STAR® qualified, they save you money throughout their lifecycle.

### Easy to Integrate and Manage

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.

### Designed to Grow With Your Evolving Business Needs

ZT400 Series printers feature increased processing capabilities and an open operating architecture providing flexibility to support your ever-growing and changing application requirements.

### Cloud Technology

Featuring the Link-OS Cloud Connect application, these printers can connect to the Cloud directly and securely, forwarding data from any port.

### Access Information at a Touch

With the Link-OS Print Touch™ app, you can pair ZT400 Series printers to NFC-enabled devices with a simple tap, giving you immediate access to the data you need, including Zebra how-to videos and product support.



For more information about ZT400 Series Industrial Printers, visit [www.zebra.com/zt400](http://www.zebra.com/zt400) or access our global contact directory at [www.zebra.com/contact](http://www.zebra.com/contact)

## Designed to grow with your evolving business needs.

### Application Flexibility

- 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

- 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

- Dynamic QR codes provide on-demand, web-based support to resolve printer errors quickly.
- “Made for iPod®/iPhone®/iPad®” certified, these printers also support Android™ and Windows® devices via Multiplatform SDK apps.
- 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

- 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.

\* EPL available on 203 dpi models only.

## 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"	6"
Maximum Ribbon Length	450 m	450 m
Maximum Print Speed	14 ips	14 ips
User Interface	LCD	LCD
Print Resolution	203, 300, 600 dpi	203 and 300 dpi
Printer Control Language	ZPL, EPL, others	ZPL, EPL, others

# ZT400 Series Specifications

## 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
- Thin film printhead with E3™ Element Energy™ Equalizer 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

<b>Resolution</b>	203 dpi/8 dots per mm 300 dpi/12 dots per mm (optional) 600 dpi/24 dots per mm (optional for ZT410 only)
<b>Memory</b>	256 MB SDRAM memory 512 MB on-board linear Flash memory
<b>Maximum Print Width</b>	ZT410: 4.09"/104 mm ZT420: 6.6"/168 mm
<b>Maximum Print Speed</b>	ZT410: 14 ips/356 mm per second ZT420: 14 ips/305 mm per second
<b>Media Sensors</b>	Dual media sensors: transmissive and reflective
<b>Print Length</b>	ZT410 • 203 dpi: 157"/3988 mm • 300 dpi: 73"/1854 mm • 600 dpi: 39"/991 mm  ZT420 • 203 dpi: 102"/2591 mm • 300 dpi: 45"/1143 mm

## MEDIA CHARACTERISTICS

<b>Maximum Media Width</b>	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
<b>Maximum Media Roll Size</b>	8.0"/203 mm O.D. on a 3"/76 mm I.D. core
<b>Thickness</b>	0.0023"/0.058 mm to 0.010"/0.25 mm
<b>Media Types</b>	Continuous, die-cut, notch, black-mark

## RIBBON CHARACTERISTICS (Thermal-transfer option only)

<b>Standard Length</b>	1476"/450 m
<b>Width</b>	ZT410: 2.00"/51 mm to 4.33"/110 mm ZT420: 2.00"/51 mm to 6.85"/174 mm
<b>Core</b>	1.0"/25.4 mm I.D.

## OPERATING CHARACTERISTICS

<b>Environmental</b>	Operating Temperature: • Thermal transfer = 40°F to 104°F/5°C to 40°C • Direct thermal = 32°F to 104°F/0°C to 40°C Operating Humidity: 20% to 85% non-condensing Storage/Transportation Temperature: -40°F to 140°F/ -40°C to 60°C Storage Humidity: 5% to 85% non-condensing
<b>Electrical</b>	Auto-detectable (PFC Compliant) 100-240VAC, 50-60Hz, rated at 100 Watts ENERGY STAR qualified
<b>Agency Approvals</b>	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
<b>Length</b>	19.50"/495 mm	19.50"/495 mm
<b>Width</b>	10.6"/269 mm	13.25"/336.55 mm
<b>Height</b>	12.75"/324 mm	12.75"/324 mm
<b>Weight</b>	36 lbs./16.33kg	40 lbs./18.14 kg

## SOFTWARE TOOLS

### Link-OS Solutions

**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.

### Web View

Connect and control Zebra barcode printers using ZPL II via the printer's web interface using common web browsers.

### Alert

Printers equipped with ZebraNet print servers will notify you via any email enabled, wired, or wireless device to minimize downtime.

## FIRMWARE

**ZBI 2.0™** — Optional powerful programming language that lets printers run stand-alone applications, connect to peripherals, and much more.

**ZPL and ZPL II®** — Zebra Programming Language provides sophisticated label formatting and printer control and is compatible with all Zebra printers.

**EPL and EPL2™** — Eltron® Programming Language with Line Mode simplifies label formatting and enables format compatibility with legacy applications. (EPL with Line Mode available on direct thermal models only.) (EPL available on 203 dpi models only.)

## 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

2D 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

64 MB user available non-volatile memory storage for downloadable objects

4 MB user-available SDRAM

## 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 Web View 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 V2, ISO/IEC 18000-63 and RAIN RFID protocols
- 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

ZKDU™ keyboard display units for stand-alone printing applications

## Ideal for These Applications

### Manufacturing

- Work-in-process
- Product ID / serial numbers
- Package labeling
- Receiving / put-away labeling

### Transportation and Logistics

- Order picking / packing
- Shipping / receiving
- Cross-docking
- Compliance labeling

### Retail

- Distribution centers
- Back-of-store operations

### Healthcare

- Laboratory labeling
- Blood bank labeling
- Asset tracking
- Pharmacy labeling

**PRODUCT SPEC SHEET**

ZT400 SERIES INDUSTRIAL PRINTERS



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