



alerts from a distance when the printer is paused or in an error state, so you instantly know what the printer needs to stay up and running.

#### **Easy Media and Ribbon Loading**

The side-loading supplies path makes loading simpler, faster, and more intuitive. The color-coded media path guides you on how to thread the media and ribbon through the printer, while lighted paths make it easy to see, even in poorly lit environments.

#### **Space-Saving Design For an Easier Fit**

Constructed using a bi-fold door, these printers are designed to easily fit in space-constrained environments. ENERGY STAR® qualified, they save you money throughout their lifecycle.

#### **Direct Connection to Your Industrial Ethernet Network**

With the Network Connect option, you can connect ZT400 printers directly to your Industrial Ethernet network without any additional equipment. This eliminates vulnerability points, improves security and saves man-hours in setup, management and troubleshooting.

#### **Pair Devices and Access Information at a Touch**

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

### **Easy to Manage**

#### **Zebra Print DNA—Transforming Printers From the Inside**

The printer hardware is just the start of what you need to maximize the value of your printers. The ZT400 is powered by Link-OS, Zebra's robust printer operating system, and Print DNA, a combination of productivity, management, development and visibility tools. The result is a superior printing experience through better performance, simplified remote manageability and easier integration.

#### **Easily Manage All Your Printers—All From a Single Location**

With our comprehensive and flexible remote management tools, you can maintain, secure and troubleshoot printers simply and easily, from anywhere, at anytime. With Printer Profile Manager Enterprise, a Print DNA option, you can manage one printer, a group of specific printers or all your printers anywhere in the world. This browser-based solution lets you instantly discover every Link-OS printer on your network—there's no need to manually track down, configure, or troubleshoot printers. In addition to optional enterprise remote management tools, we offer a full suite of complimentary deployment utilities to simplify initial setup and configuration.

#### **Seamless Integration With Your Device Management System**

Get the simplicity of a single pane of glass to manage all of your Zebra devices and printers—including the ZT400 Series. With Print DNA's MDM Connectors, you can easily integrate networked ZT400 Series printers into your existing AirWatch or SOTI MobiControl device management system.

### **Performance You Can Count On**

#### **Maximum Throughput and Productivity**

Avoid slowdowns to your operations and processes while waiting for a label to print. Best-in-class performance provides fast first label out and high throughput to make sure the label is ready when you need it.

#### **Rugged Durability For Demanding Applications**

You can count on the ZT400 Series to serve your business for years. Its durable metal frame holds up in the most demanding environments, while a long life coating protects the printheads when printing in direct thermal mode, reducing the need to replace printheads. Ensure optimal print quality with the printhead element out detection feature. Every detail has been carefully designed and tested to deliver maximum uptime over the printer's life—from the carbon fiber reinforcing the gears to a high retention USB cable.

#### **Consistently Exceptional Zebra Certified Supplies**

Printing supplies can impact everything from printhead lifespan to operational efficiency. That's why we design, produce, and rigorously pretest our own line of thermal printing supplies to ensure consistent, optimized performance in your Zebra printer—and peace of mind for you. For industry-leading quality, service and thermal printing expertise, choose Zebra Certified Supplies.

#### **Maximize Uptime, Business Operations and Printer Visibility With Services**

You invest in Zebra printers to boost the efficiency of your critical operations. Now, you can ensure predictable performance and eliminate unbudgeted repair expenses with Zebra OneCare. You get unmatched technical support direct from Zebra, as well as comprehensive repair services, including accidental damage and defined repair turn-around times. And, Zebra's Support and Visibility Services provide the real-time insight into printer operational information you need to increase printer availability and optimize utilization within your workflows.

# 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 4.1, Dual USB Host
- 4.3-inch color touch display with intuitive menu for quick operation and settings management
- Bi-colored status LEDs for quick printer status
- ENERGY STAR qualified
- Zebra Designer Essentials: easy label design tool free at [www.zebra.com/zebradesigner](http://www.zebra.com/zebradesigner)

## Physical Characteristics

<b>Dimensions (closed)</b>	ZT411: 19.5 in. L x 10.6 in. W x 12.75 in. H 495 mm L x 269 mm W x 324 mm H
	ZT421: 19.5 in. L x 13.25 in. W x 12.75 in. H 495 mm L x 336 mm W x 324 mm H
	Note: Dimensions are for the base model printer. Consult your sales representative for specifics regarding other configurations.
<b>Weight</b>	ZT411: 36 lbs./16.33 kg ZT421: 40 lbs./18.14 kg

## 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 ZT411 only)
<b>Memory</b>	256 MB SDRAM memory 512 MB on-board linear Flash memory
<b>Maximum Print Width</b>	ZT411: 4.09 in./104 mm ZT421: 6.6 in./168 mm
<b>Maximum Print Speed</b>	ZT411: 14 ips/356 mm per second ZT421: 12 ips/305 mm per second
<b>Media Sensors</b>	Adjustable dual media sensors: transmissive and reflective
<b>Print Length</b>	ZT411 • 203 dpi: 157 in./3988 mm • 300 dpi: 73 in./1854 mm • 600 dpi: 39 in./991 mm ZT421 • 203 dpi: 102 in./2591 mm • 300 dpi: 45 in./1143 mm

## Media Characteristics

<b>Maximum Media Width</b>	ZT411 • 1.00 in./25.4 mm to 4.5 in./114 mm tear/cutter • 1.00 in./25.4 mm to 4.25 in./108 mm peel/rewind ZT421 • 2.00 in./51 mm to 7.0 in./178 mm tear/cutter • 2.00 in./51 mm to 6.75 in./171 mm peel/rewind
<b>Maximum Media Roll Size</b>	8.0 in./203 mm O.D. on a 3 in./76 mm I.D. core
<b>Thickness</b>	0.0023 in./0.058 mm to 0.010 in./0.25 mm
<b>Media Types</b>	Continuous, die-cut, notch, black-mark

## Ribbon Characteristics

<b>Standard Length</b>	1476 ft./450 M
<b>Width</b>	ZT411: 2.00 in./51 mm to 4.33 in./110 mm ZT421: 2.00 in./51 mm to 6.85 in./174 mm
<b>Core</b>	1.0 in./25 mm I.D.

## Environmental

<b>Operating Temperature</b>	Thermal transfer: 40° F to 104° F/5° C to 40° C Direct thermal: 32° F to 104° F/0° C to 40° C
<b>Storage/Transportation Temperature</b>	-40° F to 140° F/-40° C to 60° C
<b>Operating Humidity</b>	20% to 85% non-condensing
<b>Storage Humidity</b>	5% to 85% non-condensing

## 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 available on 203 dpi models only.)

## Electrical

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

## Options and Accessories

<b>Communication</b>	Two open communication slots to add internal cards for: <ul style="list-style-type: none"> <li>• Dual band 802.11ac Wi-Fi and Bluetooth</li> <li>• Parallel (bi-directional interface)</li> <li>• 10/100 Ethernet</li> <li>• Applicator interface</li> </ul>
<b>Media Handling</b>	<ul style="list-style-type: none"> <li>• Rewind: Internally rewinds a full roll of printed labels on 3 in. core, or peels and rewinds liner (factory installed only)</li> <li>• Peel: Front-mount, passive peel option</li> <li>• Peel: Liner take-up—additional full-roll liner take-up spindle accommodates standard printer base</li> <li>• Cutter: Front-mount guillotine cutter and catch tray</li> <li>• 1 in. I.D. Core media supply hanger (ZT411 only)</li> <li>• Ink-side in ribbon supply (ZT411 only)</li> </ul>
<b>RFID</b>	<ul style="list-style-type: none"> <li>• Supports tags compatible with: UHF EPC Gen 2 V2.1, ISO/IEC 18000-63 and RAIN RFID protocols</li> <li>• Integrated RFID system is user-upgradable in the field and available on both 4 in. and 6 in. models</li> <li>• Adaptive Encoding Technology automatically selects optimum encode settings</li> <li>• Field installable on-metal RFID kit available*</li> </ul> <p>*ZT411 only (not available on the 600 dpi model)</p>
<b>Keyboard Display Unit</b>	ZKDU™ keyboard display units for stand-alone printing applications

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

## Markets and 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

# Specifications

## Barcode Symbologies

<b>Linear Barcodes</b>	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
<b>Two Dimensional Barcodes</b>	Codablock, PDF417, Code 49, DataMatrix, MaxiCode, QR Code, TLC 39, MicroPDF, RSS-14 (and composite), Aztec

## Agency Approvals

<b>Safety and EMC</b>	IEC 62368, Class B, EN 55032, EN 55035, EN 61000-3-2, EN 61000-3-3
<b>Product Markings</b>	Including, not limited to, cTUVus, CE, FCC, ICES-003(B), VCCI, RCM, NOM, S-Mark, CCC, EAC, BSMI, KCC, SABS, In-Metro, BIS.

## Print DNA Software Solutions

<b>Development Tools</b>	With faster, easier and smarter integration of Zebra printers with your devices and applications, your Zebra printing solutions are up and running in less time, with less cost.
<b>Management Tools</b>	Minimize IT effort and maximize IT control with Print DNA management tools—the easy way to add and manage any number of printers, anywhere—from a handful of printers to thousands of printers all around the world.
<b>Productivity Tools</b>	Reach new levels of productivity with innovations that streamline tasks and workflows, optimize device performance and solve tomorrow's printing problems today.
<b>Visibility Tools</b>	Regardless of whether or not you have an existing Mobile Device Management solution in place, robust visibility tools provide unparalleled insight into printer health, usage and performance.

## Recommended Services

Zebra OneCare Essential and Select Services maximize the availability and productivity of your devices. Key features include 24/7 technical support, comprehensive coverage, advance replacement and software updates. Optional Support and Visibility Services are available. For more information go to [www.zebra.com/zebraonecare](http://www.zebra.com/zebraonecare). (Note: Service availability may vary by region.)

## Print DNA Software

This printer is supported by our powerful Print DNA suite of applications, utilities and developer tools that give our printers better performance, simplified remote manageability, and easier integration. Print DNA features may vary by model and a Support Contract may be required. For more information, please visit: [www.zebra.com/printdna](http://www.zebra.com/printdna)

Features are subject to availability. Specifications are subject to change without notice.



**NA and Corporate Headquarters**  
+1 800 423 0442  
inquiry4@zebra.com

**Asia-Pacific Headquarters**  
+65 6858 0722  
contact.apac@zebra.com

**EMEA Headquarters**  
zebra.com/locations  
contact.emea@zebra.com

**Latin America Headquarters**  
zebra.com/locations  
la.contactme@zebra.com