

ZEBRA ZT400 SERIES

INDUSTRIAL PRINTERS

Zebra's ZT400 Series was designed to keep your critical operations running. A broad array of applications can find value in this series with high performance technology, durability and efficiency features to address a range of needs.

A large color touch display provides an intuitive interaction experience and at-a-glance status updates. Variable print width and resolution options allow you to tailor your solution to better fit your needs. The option to introduce UHF RFID into your labeling strategy is also available with the ZT400, so your printer can evolve with your facility.



- Versatile
- Ease-of-use
- Application Flexibility
- High Performance
- Customizable

MODELS

The ZT400 series offers two models: the ZT421 and the ZT411. Compare the features to see which printer best suits your needs.



	ZT421	ZT411
Maximum Print Width	6 in.	4 in.
Maximum Print Speed	12 ips (203 dpi)	14 ips (203 dpi)
Print Resolution	203, 300 dpi	203, 300, 600 dpi
Print Mode	Direct Thermal or Thermal Transfer	Direct Thermal or Thermal Transfer
User Interface	4.3 inch full-color touch display	4.3 inch full-color touch display
Standard Connectivity	Serial, USB, Ethernet, Bluetooth	Serial, USB, Ethernet, Bluetooth
Optional RFID Encoding	Factory- or field-installable RFID	Factory-or field-installable RFID; on-metal version available*

Zebra ZT400 Series

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

Physical Characteristics

	ZT411	ZT421
Length	19.5"/495 mm	19.5"/495 mm
Width	10.6"/269 mm	13.25"/336 mm
Height	12.75"/324 mm	12.75"/324 mm
Weight	36 lbs./16.33 kg	40 lbs./18.14 kg

Printer Specifications

Resolution	203 dpi/8 dots per mm 300 dpi/12 dots per mm (optional) 600 dpi/24 dots per mm (optional for ZT411 only)	
Memory	256 MB SDRAM 512 MB on-board linear Flash memory	
Maximum Print Width	ZT411: 4.09"/104 mm ZT421: 6.6"/168 mm	
Maximum Print Speed	ZT411: 14 ips/ 356 mm per second ZT421: 12 ips/305 mm per second	
Media Sensors	Adjustable dual media sensors: transmissive and reflective	
Print Length	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

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Media Characteristics

	ZT411	ZT421
Maximum Media Width	1"/25.4 mm to 4.5"/114 mm tear/cutter 1"/25.4 mm to 4.25"/108 mm peel/rewind	2"/51 mm to 7"/178 mm tear/cutter 2"/51 mm to 6.75"/171 mm peel/rewind
Maximum Media Roll Size	8"/203 mm O.D. on a 3"/76 mm I.D. core	
Thickness	0.0023"/0.058 mm to 0.010"/0.25 mm	
Media Types	Continuous, die-cut, notch, black-mark	

Ribbon Characteristics

Standard Length	1476 ft./450 M
Width	ZT411: 2"/51 mm to 4.33"/110 mm ZT421: 2"/51 mm to 6.85"/174 mm
Core	1"/25 mm I.D.

Environmental

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
Storage/Transportation Temperature	-40°F to 104°F/-40°C to 60°C
Operating Humidity	20% to 85% non-condensing
Storage Humidity	5% to 85% non-condensing

Firmware

ZBI 2.0™ - Optional powerful programming language that lets printers run standalone 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

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Options and Accessories

Communication	<p>Two open communication slots to add internal cards for:</p> <ul style="list-style-type: none"> - Dual band 802.11ac Wi-Fi and Bluetooth - Parallel (bi-directional interface) - 10/100 Ethernet - Applicator interface
Media Handling	<ul style="list-style-type: none"> - 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 – additional full-roll liner take-up spindle accommodates standard printer base - Cutter: Front-mount guillotine cutter and catch tray - 1 in. I.D. Core media supply hanger (ZT411 only) - Ink-side in ribbon supply (ZT411 only)
RFID	<ul style="list-style-type: none"> - 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 in. and 6 in. models - Adaptive Encoding Technology automatically selects optimum encode settings - Field installable on-metal RFID kit available*
Keyboard Display Unit	ZKDU™ keyboard display units for stand-alone printing applications
Fonts and Graphics	
<p>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 8 MB user-available SDRAM</p>	
Barcode Symbologies	
Linear Barcodes	<p>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-digital extensions, Plessey, Postnet, Standard 2-of-5, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Codabar, Planet Code</p>
Two Dimensional Barcodes	<p>Codablock, PDF417, Code 49, DataMatrix, MaxiCode, QR Code, TLC 39, MicroPDF, RSS-14 (and composite), Aztec</p>

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Agency Approvals

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

Print DNA Software Solutions

Development Tools	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
Management Tools	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.
Productivity Tools	Reach new levels of productivity with innovations that streamline tasks and workflows, optimize device performance and solve tomorrow’s printing problems today.
Visibility Tools	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.

Product Warranty

ZT400 Series printers are warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For the complete warranty statement visit: www.zebra.com/warranty

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 (Note: Service availability may vary by region.)