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ZT400 SERIES RFID INDUSTRIAL PRINTERS/ENCODERS

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PROVEN DURABILITY AND VERSATILITY WITH UHF RFID ENCODING

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Pairing rugged quality with UHF RFID capabilities, the ZT400 Series RFID printers/encoders help keep your critical operations running efficiently. Known as priceperformance leaders in RFID labeling, the ZT400 Series offers a factory- or field-installable UHF RFID encoder to support a broad range of applications across several industries. See printer status at a glance and manage settings quickly-including RFID-using the large color touch display. Featuring Zebra's Print DNA suite of applications, utilities and developer tools—all powered by Link-OS®—these printers are easy to integrate, manage and maintain from any location around the globe. Optimized to accurately and efficiently print and encode labels for today's item-level tracking applications, the ZT400 Series RFID printers give you greater tracking abilities, deeper visibility and enterprise insights in an ever-competitive business environment. **Dual USB Host ports for added flexibility**



Configure your way with multiple connectivity options The ZT400 comes standard with Ethernet, Serial, USB, dual USB Host and

Bluetooth 4.1. Add the optional dual-band wireless card with 802.11ac Wi-Fi and Bluetooth for blazing fast and reliable wireless connections. Built to handle a wide range of applications including high-resolution

You can count on the ZT400 Series to print a variety of different label formats on a variety of different media types. When RFID-enabled, the 4-inch ZT411 and 6-inch

ZT421 can print and encode labels as small as 0.6 in./16 mm. And, the ZT411 can print up to 600 dpi for extremely crisp resolution. The ZT411 RFID, available in an on-metal version, is the only dedicated option for printing and encoding on-metal tags and labels.

Dual USB Host ports allow you to directly connect a wide range of USB device

types. Use a memory stick to replicate firmware, files and configurations, or easily print and transfer formats. Simplify data entry by simultaneously connecting a scanner and keyboard — with two host ports, there's no need to plug and unplug peripherals. Designed to evolve with your needs

You can customize the ZT400 Series with a range of media handling options that

communication options. And, the open architecture, robust processing power and memory can support firmware upgrades and new Print DNA tools for years to come.

can be easily installed in minutes. Two open media slots accommodate additional

It's easy to set up and use the ZT400 with its intuitive icon-based interface, including managing RFID settings. The 4.3-inch full-color touch display allows you

Large color touch display makes operation a snap

EFFORTLESS TO INTEGRATE AND OPERATE

to quickly navigate printer settings and create frequently used shortcuts. See colorcoded 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. Backward compatible with virtually any existing printer

Whether you are currently using a Zebra RZ Series printer/encoder or competitive printer, you can use the same label formats and applications with the ZT400. Support for both EPL and ZPL makes it easy to migrate from another Zebra desktop printer. With Virtual Devices, part of Zebra's Print DNA, the ZT400 can use languages normally associated with other printer brands.

Get the simplicity of a single pane of glass to manage all your Zebra devices and

printers — including the ZT400 Series RFID. With Print DNA's MDM Connectors, you

can easily integrate networked ZT400 printers into your existing AirWatch or SOTI

Zebra offers an optional version of the ZT411 for on-metal RFID tagging. This

that are designed to work on a variety of surfaces including IT assets, tools,

simple-to-install, field-upgradeable technology and 300 dpi print quality.

solution enables users to print and encode on-metal RFID labels such as Silverline

equipment, returnable containers and other challenging surfaces. The ZT411 RFID

On-metal Solution gives you greater flexibility that is globally available-including

You can count on the ZT400 to serve your business for years. Its durable metal

protects the printheads when printing in direct thermal mode, reducing the need to

frame holds up in the most demanding environments, while a long life coating

replace printheads. Ensure optimal print quality with the printhead element out

Printing supplies can impact everything from printhead lifespan to operational

thermal printing supplies to ensure consistent, optimized performance in your

Zebra printer. We offer the widest selection of in-stock RFID labels and tags for

general purpose, advanced and specialty use applications, in a variety of sizes and

materials, using inlays from leading manufacturers. For our On-metal RFID Tagging

You invest in Zebra printers to boost the efficiency of your critical operations. Now,

Solution, we offer four types of Confidex Silverline labels to support any size and

Maximize uptime, business operations and printer visibility with services

you can ensure predictable performance and eliminate unbudgeted repair

defined repair turn-around times. And Zebra's Support and Visibility Services

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

efficiency. That's why we design, produce and rigorously pretest our own line of

detection feature. Every detail has been carefully designed and tested to deliver

MobiControl device management system.

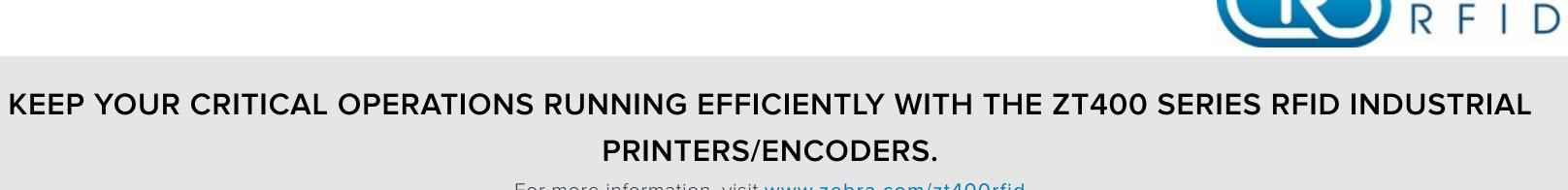
PERFORMANCE YOU CAN COUNT ON

On-metal RFID option enables metal asset tagging

Rugged durability for demanding applications

maximum uptime over the printer's life.

Consistently exceptional Zebra Certified Supplies



For more information, visit www.zebra.com/zt400rfid Print and encode with ease Seamless integration with your device management system

PRINTERS/ENCODERS.

Adaptive encoding technology allows for excellent media flexibility and simple RFID calibration, eliminating complex placement guidelines. And, Zebra has

globally certified its RFID technology on six continents to support deployments across complex, multinational supply chains. Easy media and ribbon loading The side-loading supplies path makes loading simpler, faster and more intuitive —

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-

even for new users. The color-coded media path guides you on how to thread the

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

With the Print Touch™ app, you can pair ZT400 Series printers to NFC-enabled

Pair devices and access information at a touch

EASY TO MANAGE

The printer hardware is just the start of what you need to maximize the value of

your printers. The ZT400 Series is powered by Link-OS, Zebra's robust printer

devices with a simple tap. Dynamic QR codes give you immediate access to the

data you need, including Zebra how-to video sand product support.

operating system, and Print DNA, a combination of productivity, management, development and visibility tools. The result is a superior printing experience

integration.

and troubleshooting.

through better performance, simplified remote manageability and easier

Zebra Print DNA — transforming printers from the inside

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. **ZT400 SERIES RFID SPECIFICATIONS RFID** • Integrated RFID system is user-upgradable in the field Optional field-upgradeable on-metal version available (ZT411 only)

Supports tags compatible with: UHF EPC Gen 2 V2, ISO/IEC 18000-63

deployments

• Compliant with Global RFID radio to support multinational

and RAIN RFID protocols

 Automatically eliminate complex RFID placement guidelines with adaptive encoding technology Variable inlay placement supports a range of inlay positions for maximum media flexibility

Prints and encodes tags with a minimum pitch of 0.6 in./16 mm

 Track performance with RFID job-monitoring tools Support for industry standard multi-vendor chip-based serialization (MCS)

Supports block permalocking of user memory compatible with ATA

• Integrated ThingMagic® RFID reader/encoder **Standard Features**

• Construction: Metal frame and bi-fold metal media cover with enlarged

Print Methods: Thermal transfer and direct thermal printing

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

Spec 2000

- 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**

203 dpi/8 dots per mm

only)

300 dpi/12 dots per mm (optional)

600 dpi/24 dots per mm (optional for ZT411

ZT411: 19.5 in. L x 10.6 in. W x 12.75 in. H

ZT421: 19.5 in. L x 13.25 in. W x 12.75 H

495 mm L x 269 mm W x 324 mm H

495 mm L x 336 mm W x 324 mm H

ZT411: 36 lbs./16.33 kg Weight ZT421: 40 lbs./18.14 kg

Printer Specifications

Resolution

Dimensions (closed)

Memory	256 MB SDRAM memory 512 MB on-board linear Flash memory	
Maximum Print Width	ZT411: 4.09 in./104 mm ZT421: 6.6 in./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	 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		

ZT411

ZT421

tear/cutter

peel/rewind

tear/cutter

• 1.00 in./25.4 mm to 4.5 in./114 mm

• 1.00 in./25.4 mm to 4.25 in./108 mm

• 2.00 in./51 mm to 7.0 in./178 mm • 2.00 in./51 mm to 6.75 in./171 mm

Maximum Media

Width

	peel/rewind
Maximum Media Ro Size	8.0 in./203 mm O.D. on a 3 in./76 mm I.D. core
Thickness	0.0023 in./0.058 mm to 0.010 in./0.25 mm On-metal option: up to 0.059 in./1.5 mm
Media Types	Continuous, die-cut, notch, black-mark
Media Types bbon Character	
bbon Character	ristics

Operating Temperature

Environmental

	to 40° C
Storage/Transportation Temperature	-40° F to 140° F/-40° C to 60° C
Operating Humidity	20% to 85% non-condensing
Storage Humidity	5% to 85% non-condensing

C to 40° C

Thermal transfer: 40° F to 104° F/5°

Direct thermal: 32° F to 104° F/0° C

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.)

expenses with Zebra OneCare. You get unmatched technical support direct from Zebra, as well as comprehensive repair services, including accidental damage and

application.

provide the real-time insight into printer operational information you need to increase printer availability and optimize utilization within your workflows.

Options and Accessories

RFID

Connectivity

Keyboard

fonts

Two

Dimensional

Agency Approvals

Barcodes

Safety

ENERGY STAR qualified

Electrical

only, not available on the 600 dpi model) Two open communication slots to add internal cards for:

Dual band 802.11ac Wi-Fi and Bluetooth

• Field-installable on-metal RFID kit available (ZT411

Cutter: Front-mount guillotine cutter and catch tray

ZKDU[™] keyboard display units for stand-alone

Parallel (bi-directional interface) • 10/100 Ethernet Applicator interface • 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 Media • Peel: Liner take-up — additional full-roll liner take-Handling up spindle accommodates standard printer base

Display Unit printing applications **Fonts and Graphics**

16 resident expandable ZPL II bitmap and two resident scalable ZPL

Asian and other international scalable and smooth bitmapped fonts

Downloadable objects include graphics, scalable and bitmap fonts,

64 MB user-available non-volatile memory storage for

MaxiCode, QR

Aztec

• 1 in. I.D. Core media supply hanger

• Ink-side in ribbon supply spindle

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

downloadable objects

Unicode™: For multi-language printing

8 MB user-available SDRAM **Barcode Symbologies** 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 Linear extensions, Plessey, Postnet, Standard 2-of-5, **Barcodes** Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Codabar, Planet Code Codablock, PDF417, Code 49, DataMatrix,

Code, TLC 39, MicroPDF, RSS-14 (and composite),

IEC 60950, EN 55022 Class B, EN 55024, EN 61000-

NOM, S-Mark (Arg), CCC, CU, BSMI, KCC, SABS, IN-**Emissions** Metro

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.

problems today.

Regardless of whether or not you have an existing Visibility Mobile Device Management solution in place, robust visibility tools provide unparalleled insight Tools into printer health, usage and performance.

Productivity

Tools

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, please visit: www.zebra.com/warranty **Recommended Services**

Reach new levels of productivity with innovations

device performance and solve tomorrow's printing

that streamline tasks and workflows, optimize

Services are available. For more information go to www.zebra.com/zebraonecare. (Note: Service availability may vary by region.)

change without notice.

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.

Zebra OneCare Essential and Select Services maximize the

24/7 technical support, comprehensive coverage, advance

availability and productivity of your devices. Key features include

replacement and software updates. Optional Support and Visibility

Features are subject to availability. Specifications are subject to

Print DNA features may vary by model and a Support Contract may be

required. For more information, please visit: www.zebra.com/printdna

Back-of-store operations

Item-level tagging

Security tagging

• Distribution centers





Healthcare

Asset management/tagging

 Laboratory labeling Specimen labeling Pharmacy labeling

Packaging labels

The ZT400 Series RFID is ideal in:

 Cross-docking Work-in-process Compliance labeling Product iD/serial numbers Pallet/asset tagging Receiving/put-away labeling

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Manufacturing

Item-level tagging

Asset tagging

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NA and Corporate Headquarters

Transportation and Logistics

Order picking/packing

Shipping/Receiving

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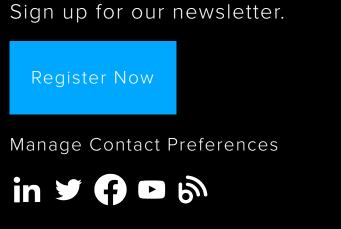
Events

Discover

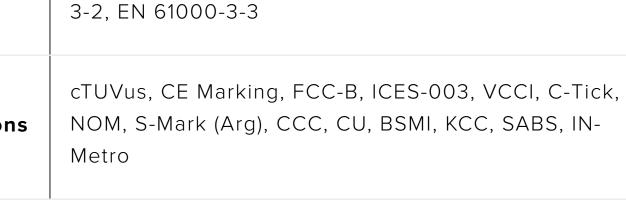
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• Chat with Sales



Print DNA Software Solutions