



Zebra® ZD500R™ UHF RFID Printer



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Advanced features in a compact, easy-to-use device

The ZD500R extends Zebra's broad range of RFID printers by adding UHF RFID printing and encoding to Zebra's line of industry-leading thermal desktop printers. Designed for applications where space is at a premium, the compact ZD500R offers simple, one-touch printing and encoding, straightforward loading, and automatic RFID calibration, making it ideal for applications where technical support staff is not available, such as retail in-store exception tagging.

The printer supports both direct thermal and thermal transfer printing and is compatible with inlays from all leading suppliers. The ZD500R can be used with a variety of RFID labels and tags from small, item-level hang tags to large case and pallet labels. By encoding RFID inlays that are spaced closer together, the ZD500R enables lower media costs, less media waste and fewer roll changes.

The printer can handle the most demanding applications with standard

features that include Parallel, Serial, USB and Ethernet connectivity; large memory; and Zebra programming language. Options include cutter and peeler, Bluetooth® and Wi-Fi®-certified communications, and high-resolution printing.

The ZD500R leverages Zebra's new Link-OS™ environment—Zebra's innovative software platform with powerful applications that enhance the capabilities of the printer, making it significantly easier to integrate into global operations and manage from any location.

Featuring the Link-OS Cloud Connect application, the ZD500R can connect to the Cloud directly and securely, forwarding data from any port.

The Link-OS Print Touch™ app allows users to pair the ZD500R to NFC-enabled devices with a simple tap, giving them immediate access to the data they need, including Zebra how-to videos and product support.

Ideal for these applications

Retail:

item-level exception tagging; in-store tagging of returned goods and display, promotional and other items

Healthcare:

specimen tracking, patient identification, asset tracking

Manufacturing:

WIP, case/pallet tracking, parts tagging, asset tracking



Government/DOD Compliance:

document tracking, MIL STD 129 compliance, evidence tracking

Hospitality & Leisure:

RFID wristbands, ticketing, mustering, queue management

SPECIFICATIONS AT A GLANCE*

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|---|---|--|
| Printer Name <ul style="list-style-type: none">ZD500R | Label and Liner Width <p>0.75"/19 mm - 4.25"/108 mm</p> | Firmware <ul style="list-style-type: none">ZPL II®Web ViewAlertZBI™ |
| RFID Features <ul style="list-style-type: none">Supports tags compatible with UHF EPC Gen 2 V1.2/ISO 18000-6CPrints and encodes tags with a minimum pitch of 0.6"/16 mmAdaptive Encoding Technology simplifies RFID setup and eliminates complex RFID placement guidelinesRFID job monitoring tools track RFID performanceRFID ZPL® commands provide compatibility with existing Zebra RFID printersSupport for industry standard multi-vendor chip-based serialization (MCS)Supports block permalocking of user memory compatible with ATA Spec 2000Integrated ThingMagic® RFID Reader/Encoder | Media Roll Size <ul style="list-style-type: none">Maximum outside diameter: 5"/127 mmCore inner diameter: 0.5"/12.7 mm, 1.0"/25 mm, 1.375"/35 mm, 1.5"/37.1 mm, 3"/76 mm | Communication and Interface Capabilities <ul style="list-style-type: none">RS-232 auto-sensing Serial interface, DB-9 (standard)USB V2.0, bi-directional (standard)Centronics® Parallel (standard)Ethernet—10/100 internal (standard)Wireless—802.11 a/b/g/n and Bluetooth 3.0 (optional) |
| Printer Features <ul style="list-style-type: none">Thermal transfer or Direct Thermal print methodsZPL programming languageDual-wall frame constructionToo-less printhead and platen replacementOpenACCESS™ for easy media loadingQuick and easy ribbon loadingSimplified calibration of mediaQuad connectivity: USB, Parallel, Serial, and EthernetReal time clockLCD User InterfaceENERGY STAR® qualifiedLink-OS-enabledPrint Touch app3" core adapter | Media Thickness <p>.003"/0.08 mm to .012"/0.305 mm</p> | Fonts/Graphics/Symbologies |
| Printer Specifications | Media Types <p>Roll-fed or fan-fed, die-cut or continuous direct thermal labels with or without black line, tag stock, continuous receipt paper, wristbands</p> | Fonts and Character Sets <ul style="list-style-type: none">16 resident expandable ZPL II bitmap fontsTwo resident scalable ZPL fontsNative open type font supportUnicode® Standard compliant for multi-language, on-demand thermal printing |
| Resolution <ul style="list-style-type: none">203 dpi/8 dots per mm300 dpi/12 dots per mm (optional) | Ribbon Characteristics <ul style="list-style-type: none">Outside diameter: 1.36"/35 mmStandard length: 244"/74 MRatio: 1:1 media to roll to ribbonWidth: 1.33"/33.8 mm to 4.3"/109.2 mmCore inner diameter: 0.5"/12.7 mm | Graphic Features <ul style="list-style-type: none">Supports user-defined fonts and graphics—including custom logosZPL II drawing commands—for boxes and lines |
| Memory <ul style="list-style-type: none">128 MB Std SDRAM memory (4 MB available to user)256 MB Std Flash memory (56 MB available to user) | Operating Characteristics | Barcode Symbologies <ul style="list-style-type: none">Barcode Ratios: 2:1 (non-rotated) and 3:1Linear Bar Codes: Code 11, Code 39, Code 93, Code 128, UPC-A, UPC-E, EAN-8, EAN-13, EAN-14, UPC-A and UPC-E with EAN 2 or 5 digit extensions, Plessey, POSTNET, Standard 2 of 5, Industrial 2 of 5, Interleaved 2 of 5, LOGMARS, MSI, Codabar, and GS1 DataBar (formerly RSS)2-Dimensional: PDF417, MicroPDF417, Code 49, Maxicode, Codablock, Data Matrix, QR code, Aztec |
| Maximum Print Width <ul style="list-style-type: none">4.09"/104 mm | Environmental <ul style="list-style-type: none">Operating temperature: 40° F/4.4° C to 105° F/41° CStorage temperature: -40° F/-40° C to 140° F/60° COperating humidity: 5% to 95% non-condensingStorage humidity: 5% to 95% non-condensing | Options and Accessories <ul style="list-style-type: none">300 dpi print resolution printing for fine detail and crisp imagesWireless—802.11 a/b/g/n and Bluetooth 3.0Dispenser—label peel and present with present sensorCutter for various media typesZKDU, KDU Plus™ and KDU™ keyboard display units for stand-alone printing solutions |
| Maximum Print Length <ul style="list-style-type: none">39.0"/990 mm | Electrical <ul style="list-style-type: none">Auto-detectable (PFC Compliant) 100-240VAV, 50-60Hz | |
| Maximum Print Speed <ul style="list-style-type: none">6"/152 mm per second (200 dpi)4"/102 mm per second (300 dpi) | Agency Approvals <ul style="list-style-type: none">Emissions: FCC Part 15, Subpart B, VCCI, C-TickEmissions and Susceptibility: (CE): EN55022Class-B, EN61000-3-2, EN61000-3-0 and EN55024, CCC, CCX, Wi-Fi-certified Safety: IEC 60950-1:2005 + A1:2009, EN 60950-1:2006 + A11:2009 + A12:2011 + A1:2010 + AC:2011, UL 60950-1:2007 R12.11, CAN/CSA-C22.2 No. 60950-1-07 + A1:2011 and TUV NRTL | |
| Media Sensors <ul style="list-style-type: none">Multi-position gap and moveable black-line media sensors | Physical Characteristics <p>Width: 7.6"/193 mm Height: 7.5"/191 mm Depth: 10.0"/254 mm Weight: 4.9 lbs/2.2 kg</p> | |
| Media Characteristics | Link-OS Solutions | |
| Label and Liner Length <ul style="list-style-type: none">Maximum non-continuous: 39"/990 mmUsing tear off mode: 0.25"/6.35 mmMinimum with label present sensor used: 0.5"/12.7 mmMinimum with cutter: 1.0"/25.4 mm | Software Tools <ul style="list-style-type: none">Printer Integration: Zebra offers apps and products designed to help you integrate Zebra devices into your existing systemsPrinter Management: Manage your print operations locally and globally with Zebra's suite of device management toolsDeveloper Tools: Provides you with the tools you need to create your own apps, including documentation, source code, programming languages, templates and more |  |



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

Asia-Pacific Headquarters
+65 6858 0722
apacchannelmarketing@zebra.com

EMEA Headquarters
+44 (0)1628 556000
mseurope@zebra.com

Latin America Headquarters
+1 847 955 2283
inquiry4@zebra.com

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*Specifications subject to change
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