Zebra® ZD500R™
UHF RFID Printer

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
### Printer Name
- ZD500R

### RFID Features
- Supports tags compatible with UHF EPC Gen 2 V1.2/ISO 18000-6C
- Prints and encodes tags with a minimum pitch of 0.6/16 mm
- Adaptive Encoding Technology simplifies RFID setup and eliminates complex RFID placement guidelines
- RFID job monitoring tools track RFID performance
- RFID ZPL® commands provide compatibility with existing Zebra RFID printers
- Support for industry standard multi-vendor chip-based serialization (MCS)
- Supports block-pemrinking of user memory compatible with ATAPI 2000
- Integrated ThingMagic® RFID Reader/Encoder

### Printer Features
- Thermal transfer or Direct Thermal print methods
- ZPL programming language
- Dual-wall frame construction
- Tool-less printhead and platen replacement
- OpenACCESS™ for easy media loading
- Quick and easy ribbon loading
- Simplified calibration of media
- Quad connectivity: USB, Parallel, Serial, and Ethernet
- Real time clock
- LCD User Interface
- ENERGY STAR® qualified
- Link-OS-enabled
- Print Touch app
- 3rd core adapter

### Printer Specifications

<table>
<thead>
<tr>
<th>Spec</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td><strong>Resolution</strong></td>
<td>203 dpi/8 dots per mm</td>
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<tr>
<td></td>
<td>300 dpi/12 dots per mm (optional)</td>
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<tr>
<td><strong>Memory</strong></td>
<td>128 MB Std SDRAM memory (4 MB available to user)</td>
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<tr>
<td></td>
<td>256 MB Std Flash memory (6 MB available to user)</td>
</tr>
<tr>
<td><strong>Maximum Print Width</strong></td>
<td>4.09&quot;/104 mm</td>
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<tr>
<td><strong>Maximum Print Length</strong></td>
<td>39.0&quot;/990 mm</td>
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<tr>
<td><strong>Maximum Print Speed</strong></td>
<td>6/1/52 mm per second (200 dpi)</td>
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<tr>
<td></td>
<td>4/1/102 mm per second (300 dpi)</td>
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<tr>
<td><strong>Media Sensors</strong></td>
<td>Multi-position gap and moveable black-line media sensors</td>
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<tr>
<td><strong>Media Characteristics</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Label and Liner Width</strong></td>
<td>0.75/19 mm - 4.28/108 mm</td>
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<tr>
<td><strong>Media Roll Size</strong></td>
<td>Maximum outside diameter: 6/127 mm</td>
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<tr>
<td></td>
<td>Core inner diameter: 0.5/12.7 mm, 1.0/25 mm, 1.37/35 mm, 1.5/37.1 mm, 3/76 mm</td>
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<tr>
<td><strong>Media Thickness</strong></td>
<td>.003/0.08 mm to .012/0.305 mm</td>
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<tr>
<td><strong>Media Types</strong></td>
<td>Roll-fed or fan-fed, die-cut or continuous direct thermal labels with or without black line, tag stock, continuous receipt paper, wristbands</td>
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### Operating Characteristics
- **Environmental**
  - Operating temperature: 40°F/4.4°C to 105°F/41°C
  - Storage temperature: 40°F/4°C to 140°F/60°C
  - Operating humidity: 5% to 95% non-condensing
  - Storage humidity: 5% to 95% non-condensing
- **Electrical**
  - Auto-detectable (PFC Compliant) 100-240VAC/50-60Hz

### Agency Approvals
- Emissions: FCC Part 15, Subpart B, VCO, C-Tick
- Emissions and Susceptibility: (CE): EN55022
- Class-B, EN61000-3-2, EN61000-3-3 and EN65024, CCC, CCX, Wi-Fi-certified

### Physical Characteristics
- **Width** 7.87/193 mm
- **Height** 7.5/191 mm
- **Depth** 10.0/254 mm
- **Weight** 4.9 lbs/2.2 kg

### Link-OS Solutions

<table>
<thead>
<tr>
<th>Software Tools</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td><strong>Printer Integration</strong></td>
<td>Zebra offers apps and products designed to help you integrate Zebra devices into your existing systems</td>
</tr>
<tr>
<td><strong>Printer Management</strong></td>
<td>Manage your print operations locally and globally with Zebra’s suite of device management tools</td>
</tr>
<tr>
<td><strong>Developer Tools</strong></td>
<td>Provides you with the tools you need to create your own apps, including document, source code, programming languages, templates and more</td>
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### Contact Information
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About BarcodesInc

Who We Are
BarcodesInc is North America's leading provider of specialized digital data hardware and software solutions. Our products include barcode scanners, mobile computing devices, identification card equipment, point-of-sale systems, barcode label and receipt printers, and consumables, all of which help customers improve productivity and profitability. Our product and solution experts have been serving both small businesses and large enterprises since 1994.

We Owe Our Success To You
It's true that data tracking is our expertise - but customer satisfaction is our true passion. We have one overriding objective: focus on you, the customer. We understand that each customer's need is unique. That's why we listen carefully and tailor our solutions to meet your needs. We appreciate the opportunity to serve you and strive to exceed your expectations!

Why Choose BarcodesInc?

Dedicated Account Manager
Our Account Managers will not compromise when it comes to providing you top-notch service. Your Account Manager is the primary point of contact for your business and makes it a priority to get to know you, your company and all your needs.

Highly-Trained Technical Support
Our technical staff has the broadest knowledge and every significant certification in the industry. One of our friendly experts is always available to suggest products and solutions for any situation.

Incredible Value
Our purchasing power means big savings for you. Whatever your project, our team will work hard to deliver a solution that fits your budget.

Largest Inventory in the Industry and Same-Day Shipping
Whatever your barcoding, mobile computing, or printing needs, we will fill your order and ship it the same day.

Premier Access to Top Manufacturers
BarcodesInc maintains strong strategic partnerships with the leading manufacturers in barcoding, mobile computing, printing and RFID.

Responsive Customer Service
Every phone call and email is responded to promptly, completely and accurately by our customer service team.

Easy Returns
Damaged, defective or incorrectly ordered goods may be returned without hassle.