

## Zebra® ZD500R<sup>™</sup> UHF RFID Printer



SEE MORE. DO MORE.



## 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 instore 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<sup>®</sup> and Wi-Fi<sup>®</sup>-certified communications, and high-resolution printing.

The ZD500R leverages Zebra's new Link-OS<sup>™</sup> 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<sup>™</sup> app allows users to pair the ZD500R to NFCenabled 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

## **Printer Name**

ZD500B

#### **RFID Features**

- Supports tags compatible with UHF EPC Gen 2 V1.2/ ISO 18000-6C
- Prints and encodes tags with a minimum pitch of 16 mm (0.6")
- Adaptive Encoding Technology simplifies RFID setup and eliminates complex RFID placement guidelines
- RFID job monitoring tools track RFID performance RFID ZPL<sup>®</sup> commands provide compatibility with existing Zebra RFID printers
- · Support for industry standard multi-vendor chip-based serialisation (MCS)
- Supports block permalocking of user memory compatible with ATA Spec 2000
- Integrated ThingMagic<sup>®</sup> 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<sup>™</sup> 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
- FNFRGY STAR<sup>®</sup> gualified
- · Link-OS-enabled
- Print Touch app 3" core adapter

## **Printer Specifications**

#### Resolution

- 8 dots per mm (203 dpi)
- 12 dots per mm (300 dpi) -optional

#### Memory

- 128 MB Std SDRAM memory (4 MB available to user)
- · 256 MB Std Flash memory (56 MB available to user)

#### Maximum Print Width

- 104 mm (4.09")
- **Maximum Print Length**

990 mm (39.0")

#### **Maximum Print Speed**

- 152 mm (6") per second (200 dpi)
- 102 mm (4") per second (300 dpi)

## **Media Sensors**

Multi-position gap and moveable black-line media sensors

#### **Media Characteristics**

#### Label and Liner Length

\*Specifications subject to change

- Maximum non-continuous: 990 mm (39")
- Using tear off mode: 6.35mm (0.25")
- · Minimum with label present sensor used: 12.7 mm (0.5")

**Other EMEA Locations** 

Middle East & Africa: Dubai, South Africa

Zebra Technologies – EMEA Headquarters & Sales Office

Europe: France, Germany, Italy, the Netherlands, Poland, Russia, Spain, Sweden, Turkey

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Minimum with cutter: 25.4 mm (1.0")



## Label and Liner Width

19 mm - 108 mm (0.75" - 4.25")

## Media Boll Size

 Maximum outside diameter: 127 mm (5") Core inner diameter: 12.7 mm (0.5"), 25 mm (1.0"). 35 mm (1.375"), 37.1 mm (1.5"), 76 mm (3")

#### Media Thickness

#### 0.08 mm to 0.305 mm (0.003" to 0.012")

### Media Types

Roll-fed or fan-fed, die-cut or continuous direct thermal labels with or without black line, tag stock, continuous receipt paper, wristbands

#### **Ribbon Characteristics**

- Outside diameter: 35 mm (1.36")
- Standard length: 74 M (244') Ratio: 1:1 media to roll to ribbon
- Width: 33.8 mm to 109.2 mm (1.33" to 4.3") Core inner diameter: 12.7 mm (0.5")

## **Operating Characteristics**

## Environmental

- Operating temperature: 4.4° C to 41° C (40° F to 105° F) Storage temperature: -40° C to 60° C (-40° F to 140° F)
- Operating humidity: 5% to 95% non-condensing
- Storage humidity: 5% to 95% non-condensing

## Electrical

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

#### Agency Approvals

- Emissions: FCC Part 15, Subpart B, VCCI, C-Tick
- Emissions and Susceptibility: (CE): EN55022
- Class-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 **Physical Characteristics**

Width:	193 mm (7.6")

- Height: 191 mm (7.5")
- Depth: 254 mm (10.0")
- Weight: 2.2 kg (4.9 lbs)

## Link-OS Solutions

#### Software Tools

- Printer Integration: Zebra offers apps and products designed to help you integrate Zebra devices into your existing systems
- Printer Management: Manage your print operations locally and globally with Zebra's suite of device management tools
- Developer Tools: Provides you with the tools you need to create your own apps, including documentation, source code, programming languages, templates and more

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#### Firmware

- 7PL 11
- Web View
- Alert

## ZBI™

## **Communication and Interface Capabilities**

- RS-232 auto-sensing Serial interface, DB-9 (standard)
- USB V2.0, bi-directional (standard)
- Centronics<sup>®</sup> Parallel (standard)
- Ethernet—10/100 internal (standard)
- Wireless—802.11 a/b/g/n and Bluetooth 3.0 (optional)

#### Fonts/Graphics/Symbologies

#### Fonts and Character Sets

• 16 resident expandable ZPL II bitmap fonts

Unicode® Standard compliant for multi-language,

Supports user-defined fonts and graphics-including

Linear 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,

2 of 5, LOGMARS, MSI, Codabar, and GS1 DataBar

2-Dimensional: PDF417, MicroPDF-417, Code 49,

· 300 dpi print resolution printing for fine detail and

• Dispenser-label peel and present with present sensor

ZKDU, KDU Plus<sup>™</sup> and KDU<sup>™</sup> keyboard display units

• Wireless—802.11 a/b/g/n and Bluetooth 3.0

Maxicode, Codablock, Data Matrix, QR code, Aztec

POSTNET, Standard 2 of 5, Industrial 2 of 5, Interleaved

ZPL II drawing commands—for boxes and lines

· Barcode Ratios: 2:1 (non-rotated) and 3:1

- Two resident scalable ZPL fonts
- Native open type font support on-demand thermal printing

Graphic Features

custom logos

(formerly RSS)

crisp images

**Options and Accessories** 

· Cutter for various media types

for stand-alone printing solutions

Please recycle after use

12645L (10/13)

Barcode Symbologies