

Zebra[®] ZD500R[™] 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[®] 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 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; instore 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

• 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
- Support for industry standard multi-vendor chip-based serialization (MCS)
- Supports block permalocking of user memory compatible with ATA Spec 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
- 3" core adapter

Printer Specifications

Resolution

- 203 dpi/8 dots per mm
- · 300 dpi/12 dots per mm (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

• 4.09"/104 mm

Maximum Print Length

• 39.0"/990 mm

Maximum Print Speed

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

Media Sensors

 Multi-position gap and moveable black-line media sensors

Media Characteristics

ZEBRA

Label and Liner Length

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

Corporate Headquarters

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• Minimum with cutter: 1.0"/25.4 mm

Label and Liner Width

0.75"/19 mm - 4.25"/108 mm

Media Roll Size

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

Media Thickness

.003"/0.08 mm to .012"/0.305 mm

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

Operating Characteristics

Environmental

- Operating temperature: 40° F/4.4° C to 105° F/41° C
- Storage temperature: -40° F/-40° 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) 100-240VAV, 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 WiFi
- 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: 7.6"/193 mm
- Height: 7.5"/191 mm
- Depth: 10.0"/254 mm
- Weight: 4.9 lbs/2.2 kg

Link-OS Solutions

Software Tools

Asia-Pacific Headquarters

apacchannelmarketing@zebra.com

Latin America: Argentina, Brazil, Colombia, Florida (LA Headquarters in USA), Mexico Africa/Middle East: Dubai, South Africa

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- 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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United Kingdom Asia Pacific: Australia, China, Hong Kong, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, Vietnam

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Firmware

- ZPL II®
- Web View
- Alert
- ZBI™

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Communication and Interface Capabilities

- RS-232 auto-sensing Serial interface, DB-9 (standard)
- USB V2.0, bi-directional (standard)
- Centronics[®] Parallel (standard)
- Ethernet—10/100 internal (standard)

16 resident expandable ZPL II bitmap fonts

Unicode[®] Standard compliant for multi-language,

· Supports user-defined fonts and graphics-including

· ZPL II drawing commands-for boxes and lines

· 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, POSTNET, Standard 2 of 5, Industrial 2 of 5,

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

· 300 dpi print resolution printing for fine detail and

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

· Dispenser-label peel and present with present

ZKDU, KDU Plus[™] and KDU[™] keyboard display units

Latin America Headquarters

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Maxicode, Codablock, Data Matrix, QR code, Aztec

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

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

• Wireless-802.11 a/b/g/n and Bluetooth 3.0 (optional)

Fonts/Graphics/Symbologies

Two resident scalable ZPL fonts

· Native open type font support

on-demand thermal printing

Graphic Features

custom logos

Barcode Symbologies

DataBar (formerly RSS)

Options and Accessories

Cutter for various media types

for stand-alone printing solutions

crisp images

sensor

Fonts and Character Sets