ZD621R 4-inch Desktop Printers

Premium features, maximum performance, RFID capabilities
and unmatched security for years of use

You need a premium, quality RFID printer that's built to perform flawlessly—day in and day out. Rely on Zebra's ZD621R desktop printer, including RFID printing/encoding, advancing the proven and popular ZD500R. Get it all: an innovative new architecture to power our ever-expanding printer capabilities and software. RFID printing and encoding capabilities in a compact desktop printer. Unmatched security that's constantly evolving to safeguard your sensitive data and shield you from cyberattacks. A new standard 4.3-inch, full-color LCD touch display with intuitive menu. Enhanced features, communication and field-installable media-handling options. And, increased remote-management capabilities. Together, these give you outstanding print performance and industry-leading reliability for years of optimal use, and unparalleled intelligence and security to keep you moving forward.

Elevating a Proven Winner

Extending the ZD500R Legacy
Zebra's ZD500R printer/encoder is known for quality, premium performance. You can be confident the next-generation ZD621R includes everything you loved in the legacy printer, and builds on this heritage to deliver best-in-class features and RFID technology for this new era of intelligence.

Zebra RFID: More Transformation, No Complication

Print and Encode with Ease
The ZD621R utilizes Zebra's own RE40 RFID module to support a broad range of applications across several industries. Adaptive encoding technology allows for excellent media flexibility and simple RFID calibration, eliminating complex placement guidelines. Optimized to efficiently print and encode labels, the ZD621R gives you greater tracking abilities, deeper visibility and enterprise insights in an ever-competitive business environment.

RFID Backed by the Broadest, Field-Proven Portfolio
Zebra leverages decades of expertise, design thinking and software development to help you deliver maximum RFID gains, while minimizing the pains that can come with multi-vendor solutions. Zebra gives you the industry's broadest, field-proven RFID portfolio for unmatched accuracy and interoperability. Look to Zebra's consistent, fully scaled platform that anticipates real-world challenges and elevates the performance of every system, device, tag and worker.

Expect the Best

Premier Printing Performance
From outstanding print quality to RFID printing/encoding, portability for application flexibility to emerging technology, and field-installable options, the ZD621R is a thermal transfer RFID printer that supports a wide variety of use cases and requirements.

**The ZD621R — Premium print quality, features, RFID capabilities and reliability.
Ready for today and tomorrow.
For more information, please visit www.zebra.com/zd621r.**

Operate with Ease

Intuitive User Interface
Interact at a touch with the ZD621R's 4.3-inch, full-color LCD touch display. The easy-to-use menu features step-by-step setup wizards, troubleshooting animations, media-loading and calibration guidance, and supports standalone printing applications. The display also changes color to show printer status at a glance. And, color-coded touch points guide users through media handling tasks for speedy media changes. Zebra touchscreens are designed and tested for toughness and reliability, including robust tolerance to temperature, humidity, dust and other environmental challenges.

Backwards Compatible with Virtually Any Existing Thermal Printer
Use the same label formats and applications you're using today. It supports both EPL and ZPL printer languages, and can emulate languages normally associated with other printer brands using Zebra's Print DNA tool Virtual Devices.

Connect Your Way with Comprehensive Communication
Integrate your ZD621R onto your existing wired and wireless networks or connect it directly to any PC. Every ZD621R comes with Ethernet, Serial, USB 2.0 and USB Host, or add an optional dual wireless radio with fast 802.11ac Wi-Fi and Bluetooth 4.1. Print from any Windows®, Android™ or iOS device, and utilize Zebra's printer setup mobile app using Bluetooth Low Energy (BLE).

Put it to Work for Years

Designed to Perform Today and Tomorrow
Featuring an innovative architecture, the ZD621R is nearly 32% more powerful than the ZD500R. Perform more operations simultaneously, maintain security and be ready for what's next.

Engineered for Outstanding Print Quality
Like Zebra's industrial printers, the ZD621R includes a media dancer to ensure maximum quality on every label regardless of print speed. Further boost print quality with the optional 300 dpi print resolution.

Print DNA Software Suite, Your Built-In Advantage

Print Securely and Confidently, Without Hassles
Print DNA suite of software, powered by our Link-OS operating system, will get your printer up and running quickly and securely. Print consistently, and uninterrupted with a solution that enables your printer to evolve with your business needs.

Update, Troubleshoot and Monitor – All From a Single Location
With Zebra's Printer Profile Manager Enterprise, part of Print DNA, manage all printers anywhere in the world remotely from one location.

Unparalleled, Peace-of-Mind Printer Security
Shield yourself from cyberattacks with Zebra's PrintSecure, part of Print DNA. Easily configure your printers via secure connections, identify vulnerabilities, block unauthorized access and more.

Explore Managed Print Services (MPS) with Assurance

Zebra's Thermal Printers with Print DNA Make MPS Easy
Our printers are engineered for durability, and offer innovative management, analytics and security, making them ideal for MPS. With the Print DNA software suite, your Zebra MPS provider can remotely manage your printers, track and automate supplies, and ensure security. This lowers your operating costs and IT workload.

Get the Features you Need, When you Need Them

Turn Your ZD621R Into a Portable Printer
Easily transport your ZD621R printer on a cart or with Zebra's optional carrying case, using the battery option.

Movable Sensor for Comprehensive Media Compatibility
The ZD621R's movable media sensor lets you use virtually any media for greater flexibility across a variety of use cases.

Supplies, Service and Support

Zebra Certified Supplies
Printing supplies provide a digital voice for assets across your supply chain. If something goes wrong with your printing supplies, operations are interrupted, productivity suffers and costs rise. That's why we design, produce and rigorously pretest our own line of labels, tags and receipt paper to ensure consistent, optimized performance in your Zebra printer. For industry-leading quality, service and thermal printing expertise, choose Zebra Certified Supplies.

Service When You Need it
Zebra OneCare offers unmatched technical support direct from Zebra, as well as comprehensive repair services. And Zebra's Visibility Services provide real-time insights into printer operations to help optimize printer availability. Get increased protection with the ZD621R's standard two-year warranty.

Specifications

RFID Features

- Supports tags compatible with UHF EPC Gen 2 V2, ISO/IEC 18000-63 and RAIN RFID protocols
- 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
- Globally certified in more than 70 countries for RFID to support multinational deployments
- RFID log records all RFID data with timestamps, ensuring complete traceability
- RFID ZPL commands provide compatibility with existing Zebra RFID printers
- Support for industry-standard, multi-vendor chip-based serialization (MCS)
- Integrated Zebra RE40 RFID Reader/Encoder

Standard Features

- Print methods: Thermal Transfer or Direct Thermal
- ZPL programming languages
- 4.3" full color touch LCD (resolution: 480 wide x 272 high) with 3-button user interface
- 5 status icons interface
- Ethernet, Serial, USB 2.0, USB Host
- Printer setup mobile app for Android & iOS via BLE Bluetooth Low Energy 5) connection
  *BLE is provided for using with Zebra printer setup mobile app only
- Real Time Clock (RTC)
- Media dancer for excellent print quality
- OpenACCESS™ for easy media loading
- Dual-wall frame construction
- ENERGY STAR® certified
- PDF Direct
- ZebraDesigner Essentials – easy label design tool free at www.zebra.com/zebradesigner
- Two-year standard warranty

Physical Characteristics

Dimension	10.5 in. L x 8.0 in. W x 7.5 in. H 267 mm L x 202 mm W x 192 mm H
Weight	5.5 lbs./2.5 kg

Printer Specifications

Operating System	Link-OS®
Resolution	203 dpi/8 dots per mm 300 dpi/12 dots per mm (optional)
Memory	512 MB Flash; 256 MB SDRAM 64 MB user available non-volatile memory 8 MB user available SDRAM
Maximum Print Width	4.09 in./104 mm for 203 dpi 4.27 in./108 mm for 300 dpi
Maximum Print Speed	8 in./203 mm per second (203 dpi) 6 in./152 mm per second (300 dpi)
Media Sensors	Full-width, moveable reflective/black mark sensor; multi-position transmissive/gap sensor
Firmware	ZPL II; EPL 2; XML; ZBI; PDF Direct

Media and Ribbon Characteristics

Label Length	Maximum: 39.0 in./991 mm Minimum: 0.25 in/6.4 mm
Media Width	0.585 in./15 mm to 4.65 in./118 mm
Media Roll Size	Maximum outer diameter: 5.0 in./127 mm Core inner diameter: 0.5 in. (12.7 mm), 1.0 in. (25.4 mm) and 3.0 in. (76.2 mm) standard, 1.5 in. (38.1), 2.0 in., (50.8 mm) and using optional adapters
Media Thickness	0.003 in. (0.08 mm) min.; 0.0075 in. (0.19 mm) max. (tear-off mode only)
Media Types	Roll-fed or fan-fold, die-cut or continuous with or without black mark, label or tag stock, continuous receipt paper, wristbands
Ribbon Outside Diameter	2.6 in./66 mm (300 m); 1.34 in./34 mm (74 m)
Ribbon Standard Length	984 ft. (300 m); 243 ft. (74 m)
Ribbon Ratio	1:4 ribbon to media (300 m) 1:1 ribbon to media (74 m)
Ribbon Width	1.33 in./33.8 mm — 4.3 in./109.2 mm
Ribbon Core I.D.	300 meter ribbon 1 in./25.4 mm 74 meter ribbon 0.5 in./12.7 mm

Operating Characteristics

Operating Temp.	40° to 105° F/4.4° to 41° C
Storage Temp.	-40° to 140° F/-40° to 60° C
Operating Humidity	10% to 90% non-condensing
Storage Humidity	5% to 95% non-condensing
Electrical	Auto-detectable (PFC Compliant) 100-240VAC, 50-60Hz ENERGY STAR certified Energy Efficiency Level VI certified Optional 2750 mAh battery

Options and Accessories

Media Handling	Dispenser/Peeler: label peel and present with label present sensor (factory installed or field installable) Cutter (factory installed or field installable)
Communications	802.11ac Wi-Fi and Bluetooth 4.1 (dual radio), (factory installed or field installable)
Battery	Provides power to the printer to support a full shift of printing at maximum print speed; supports all connectivity and media handling options
Carry Case	Carrying case with shoulder strap and handles makes it easy to bring your desktop printer and battery to the point of application
Keyboard Display Unit	Zebra Keyboard Display Unit (ZKDU) for stand-alone printing solutions
Mounting Plate	Secure ZD Series printers to countertops or shelves
Enclosed Power Supply	Attached power supply accessory for cord-free installation

Markets and Applications

Retail
- In-store exception tagging
- Apparel and merchandise tracking
- Cannabis in-store tagging
- Retail pharmacy totes

Food and Beverage
- Expiration date tracking
- Food safety recall management

Healthcare
- Specimen and laboratory samples
- Patient identification
- In-hospital pharmacy
- Asset tracking

Manufacturing
- Work in progress
- Case/pallet tote tracking
- Parts and asset tagging

Government/DOD Compliance
- Document tracking
- Evidence tracking

Hospitality
- RFID wristbands
- Ticketing

Fonts/Graphics/Symbologies

Bar Code Ratios	2:1 and 3:1
1D Bar Codes	Code 11, Code 39, Code 93, Code 128, ISBT-128, UPC-A, UPC-E, EAN-8, EAN-13, UPC and EAN 2-or 5-digit extensions, Plessey, Postnet, Standard 2-of-5, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Codabar and Planet Code
2D Bar Codes	Codablock, PDF417, Code 49, DataMatrix, MaxiCode, QR Code, MicroPDF, Aztec
Fonts and Graphics	16 resident expandable ZPL II bitmap fonts, two resident scalable ZPL fonts, five resident expandable EPL2 fonts, native open-type font support, Unicode compliant. China units include SimSun simplified Chinese font

Printers Supplies

For industry-leading quality, service and thermal printing expertise, choose Zebra Certified Supplies to ensure consistent, optimized performance for your Zebra printer.

Regulatory

IEC 60950-1, IEC 62368-1, EN55022 Class B, EN55024, EN55035, EN61000-3-2, EN61000-3-3, FCC Class B, ICES-003, FCC 15.209; 15.247(d), IC RSS 247, EN 300 328, EN 301 893, EN 62311, cTUVus CE Marking, VCCI, C-Tick, S-Mark, CCC, CU, BSMI, KCC, SABS, IN-Metro, BIS, NOM

Environmental Compliance

Environment
• RoHS Directive 2011/65/EU; Amendment 2015/863
A complete list of product and materials compliance, please visit:
www.zebra.com/environment.

Print DNA Software

This printer is supported by our Print DNA suite of software capabilities to get your printer up and running quickly and securely, and enable your printer to evolve with your business needs. Print DNA features may vary by model, and some features may require a license. For more information, please visit www.zebra.com/printdna.

Included In The Box

Printer, empty ribbon take-up cores (1 in. and 0.5 in.), 3 in. media core adapters, 300 m ribbon core adapters for non-Zebra ribbon (2)*, AC power supply, power cord(s), USB cable, Quick Start Guide, Regulatory Guide

Recommended Services

Zebra OneCare™ maintenance plans provide peak performance and device uptime while protecting your critical operations and your printers with defined service levels. For more information go to www.zebra.com/zebraonecare.

Zebra OneCare Select	Comprehensive Coverage, including printheads, normal wear and accidental breakage Priority access 24x7 live technical support and software updates Advance Replacement and Express Shipping (Next Day Device Replacement) Standard Commissioning Online Return Material Authorization (RMA) support
Zebra OneCare Essential	Comprehensive Coverage, including printheads, normal wear and accidental breakage Priority access 8x5 live technical support and software updates Three-day depot repair turnaround time plus free return ground shipping Online Return Material Authorization (RMA) support

Note: Service availability may vary by region.

Product Warranty

ZD621R printers are warranted against defects in workmanship and materials for a period of 2 (two) years from the date of shipment. For the complete warranty statement, please visit www.zebra.com/warranty.