

# ZD421-HC 4-inch Desktop Printers

Elevate your expectations with Zebra's advanced healthcare desktop printers

You need a reliable printer built for healthcare that delivers quality performance, now and for years to come. It needs key features, and be easy to setup, operate, manage and maintain—onsite or remotely. It needs to be secure to protect patient information, whether integrated onto your network or not, to prevent downtime and costly cyberattacks. You need it, and Zebra delivers it, for more than 50 years. We've engineered our healthcare printers to match your workflows for hassle-free performance. Building on the legacy of Zebra's GK Series and ZD420 healthcare printers, the ZD421 delivers the flexibility and reliability you need, with even more capabilities and security, to set you up for years of use.



## It's Time to Advance

### Migrate from G to Z

The ZD421 builds on the legacy of Zebra's GK Series and ZD420 Series printers, offering you the functions and capabilities of its predecessor—and much more. The next-generation ZD421 leverages this heritage to deliver advanced features for a new era of intelligence and forward flexibility, packaged in a ready-to-work healthcare model.

## Advance Your Healthcare Workflows

### Easy to Clean, Sanitize and Safely Power

Disinfectant-ready plastics, UV-resistant housing and a sealed-button interface make the ZD421 healthcare printer easy to clean and sanitize, helping prevent the spread of infections in hospitals and clinics. And, the power supply is IEC 60601-1 compliant for use in healthcare facilities.

### Simple to Use

### Intuitive and Powerful Operation

The ZD421 offers new, advanced features that make it stand apart. It includes a new, more intuitive user interface, powerful architecture and field-upgradeable wireless kit. It also has new media guide and media handling designs that make daily operation even easier.

## Supports Nearly Every Use Case

### Multiple Models to Match Your Needs

Available in direct thermal, thermal transfer and ribbon cartridge models, all specifically for healthcare, the ZD421 healthcare printer meets a wide variety of healthcare-specific use cases and requirements.



The ZD421—Easy to operate. Flexible features. Ready for tomorrow's healthcare needs.  
For more information, please visit [www.zebra.com/zd421-healthcare](http://www.zebra.com/zd421-healthcare)

## Ready for Now and What's Next

### Get Years of Printing Performance

Featuring an innovative architecture, the ZD421 is engineered to power future printing. It's 30% more powerful than the ZD420 Series and 700% more than the GK Series. Perform more operations simultaneously, maintain security and be ready for what's next.

### Backwards Compatible with Virtually Any Existing Thermal Printer

Integrate your ZD421 into your existing printer fleets with confidence. 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 it Your Way

Integrate your ZD421 onto your existing wired and wireless networks, or connect it directly to any PC. Every ZD421 comes standard with USB and USB Host, and offers optional Ethernet, Serial and dual wireless radio with fast 802.11ac Wi-Fi™ and Bluetooth® 4.1. Print from any Windows®, Android™ or iOS® device. Get your ZD421 up and running with Zebra's printer setup mobile app using Bluetooth Low Energy (BLE). Use the included Print Touch tag (NFC) to simply tap to pair and print.

## Advanced Flexibility and Features

### Operate with Ease and See Status At-A-Glance

The ZD421's five LED icons allow you to instantly see what's needed to keep your printers up and running, from replenishing media to resolving printer issues. The advanced three-button user interface replaces the typical single-button/single-light interface common in desktop printers. And, color-coded touch points guide you through media-handling tasks for speedy media changes.

### Groundbreaking Cartridge for Instant Ribbon Changes

The ZD421 is the only thermal printer to offer a ribbon cartridge that takes just a few seconds to load with fool-proof, one-way, first-time and every-time instant loading. The smart chip in the ribbon lets you know when the ribbon needs replacing.

### Turn Your ZD421 Into a Portable Printer

Easily transport your ZD421 printer on a cart or with Zebra's optional carrying case<sup>1</sup>, using the battery option. Print on the spot to reduce steps and increase productivity. Power through a full shift with the high-capacity battery.

### Movable Sensor for Comprehensive Media Compatibility

The ZD421 movable media sensor lets you use virtually any media for greater flexibility across a variety of use cases.

## 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's fully integrated and interoperable, and will enable 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, you have the ability to easily manage, secure and troubleshoot your networked printers from one remote location anywhere in the world.

### 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

Looking to gain control and visibility of your printer fleets with MPS? With the Print DNA software suite, your Zebra MPS provider can remotely manage and optimize your printers, track and automate supplies replenishment and ensure security.

## Supplies, Service and Support

### Zebra Certified Supplies

Printing supplies provide a digital voice for assets across your supply chain. You rely on them to disseminate critical data throughout your organization. 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 expertise, choose Zebra Certified Supplies.

### Backed by Zebra's Worldwide Service and Support

Access repair support services anywhere around the globe through Zebra and its trusted network of more than 10,000 partners. Zebra OneCare™ provides enhanced coverage that exceeds standard warranty.

# Specifications

## Healthcare Features

- Healthcare preferred white color scheme
- Healthcare-compliant power supply, IEC 60601-1 certified
- Disinfectant-ready, easy-to-clean plastics with sealed button interface
- UV-resistant housing supports UV cleaning protocols

## Standard Features

- Print methods: Thermal Transfer or Direct Thermal
- ZPL and EPL programming languages
- 5 status icon, 3 button user interface
- USB 2.0, USB Host
- Printer setup mobile app for Android and iOS via BLE (Bluetooth Low Energy 5) connection\*
- \* BLE is intended for use with Zebra printer setup mobile app only
- Real Time Clock (RTC)
- OpenACCESS™ for easy media loading
- Dual-wall frame construction
- ENERGY STAR® certified
- ZebraDesigner Essentials—easy label design tool free at [www.zebra.com/zebradesigner](http://www.zebra.com/zebradesigner)

## Physical Characteristics

<b>Dimensions</b>	<b>Direct Thermal:</b> 8.69 in. L x 6.98 in. W x 5.93 in. H 220.8 mm L x 177.5 mm W x 150.7 mm H <b>Thermal Transfer Roll:</b> 10.5 in. L x 8.0 in. W x 7.44 in. H 267 mm L x 202 mm W x 189 mm H <b>Thermal Transfer Cartridge:</b> 10.0 in. L x 8.0 in. W x 7.0 in. H 254 mm L x 202 mm W x 177 mm H
<b>Weight</b>	<b>Direct Thermal:</b> 2.98 lbs./1.35 kg <b>Thermal Transfer Roll:</b> 4.52 lbs./2.05 kg <b>Thermal Transfer Cartridge:</b> 5.0 lbs/2.3 kg

## Printer Specifications

<b>Operating System</b>	Link-OS
<b>Resolution</b>	203 dpi/8 dots per mm 300 dpi/12 dots per mm (optional)
<b>Memory</b>	512 MB Flash; 256MB SDRAM 64 MB user available non-volatile memory 8 MB user available SDRAM
<b>Maximum Print Width</b>	4.09 in./104 mm for 203 dpi 4.27 in./108 mm for 300 dpi Cartridge: 4.09 in./104 mm for 203 and 300 dpi
<b>Maximum Print Speed</b>	6 in./152 mm per second (203 dpi) 4 in./102 mm per second (300 dpi)
<b>Media Sensors</b>	Full width, moveable reflective/black mark sensor; multi-position transmissive/gap sensor
<b>Firmware</b>	ZPL II; EPL 2; XML; ZBI; PDF Direct

## Media, Ribbon and Cartridge Characteristics

<b>Label Length</b>	Minimum: 0.25 in./6.4 mm Maximum: 39.0 in./991 mm
<b>Media Width</b>	<b>Direct Thermal:</b> 0.585 in./15 mm to 4.25 in./108 mm <b>Thermal Transfer Roll:</b> 0.585 in./15 mm to 4.41 in./112 mm <b>Thermal Transfer Cartridge:</b> 0.585 in./15 mm to 4.65 in./118 mm
<b>Media Roll Size</b>	Maximum outer diameter: 5.00 in./127 mm Core inner diameter: 0.5 in. (12.7 mm) and 1.0 in. (25.4 mm) standard, 1.5 in. (38.1), 2.0 in., (50.8 mm) and 3.0 in. (76.2 mm) using optional adapters

<b>Media Thickness</b>	0.003 in. (0.08 mm) min.; 0.0075 in. (0.19 mm) max.
<b>Media Types</b>	Roll-fed or fan-fold, die cut or continuous with or without black mark, tag stock, continuous receipt paper, and wristbands
<b>Ribbon Outside Diameter</b>	2.6 in./66 mm (300 m); 1.34 in./34 mm (74 m)
<b>Ribbon Standard Length</b>	Roll: 984 ft./300 m; 243 ft./74 m Cartridge: 243 ft./74 m
<b>Ribbon Ratio</b>	1:4 ribbon to media (300 m) 1:1 ribbon to media (74 m)
<b>Ribbon Width</b>	Roll: 1.33 in./33.8 mm—4.3 in./109.2 mm Ribbon cartridge: 4.3 in./109.2 mm
<b>Ribbon Core I.D.</b>	300 meter ribbon 1 in./25.4 mm 74 meter ribbon 0.5 in./12.7 mm

## Operating Characteristics

<b>Operating Temp.</b>	40° to 105° F/4.4° to 41° C
<b>Storage Temp.</b>	-40° to 140° F/-40° to 60° C
<b>Operating Humidity</b>	10% to 90% non-condensing
<b>Storage Humidity</b>	5% to 95% non-condensing
<b>Electrical</b>	Auto-detectable (PFC Compliant) 100-240VAC, 50-60Hz; ENERGY STAR certified; Energy Efficiency Level VI certified; optional 2750 mAh battery; Healthcare models include IEC60601-1 certified power supply

## Options

<b>Media Handling</b>	Dispenser/Peeler: label peel and present with label present sensor (field installable) Cutter (field installable)
<b>Communications</b>	Field installable: Ethernet 10/100, 802.11ac Wi-Fi and Bluetooth 4.1 (dual radio); Serial RS-232 auto-sensing, DB-9 Factory installed: Ethernet 10/100, 802.11ac Wi-Fi and Bluetooth 4.1 (dual radio)

## Accessories

<b>Battery</b>	Provides power to the printer to support a full shift of printing at maximum print speed; supports all connectivity and media handling options
<b>Carrying Case<sup>1</sup></b>	Carrying case with shoulder strap and handles makes it easy to bring your desktop printer and battery to the point of application
<b>Keyboard Display Unit</b>	Zebra Keyboard Display Unit (ZKDU) for stand-alone printing solutions
<b>Enclosed Power Supply</b>	Attached power supply accessory for cord-free installation

## Fonts/Graphics/Symbologies

<b>Bar Code Ratios</b>	2:1 and 3:1
<b>1D Bar Codes</b>	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
<b>2D Bar Codes</b>	Codablock, PDF417, Code 49, DataMatrix, MaxiCode, QR Code, MicroPDF, Aztec
<b>Fonts and Graphics</b>	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

## Markets and Applications

### Healthcare

- Prescription labels
- Lab and specimen labels
- Patient ID wristbands
- Blood and IV bag labels
- Patient record labels
- Asset labels

**PRODUCT SPEC SHEET**

**ZD421 HEALTHCARE 4-INCH DESKTOP PRINTERS**

**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](http://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](http://www.zebra.com/printdna)

**Included In The Box**

Printer, empty ribbon take-up cores (1 in. and 0.5 in.)\*, 300 m ribbon core adapters for non-Zebra ribbon (2)\*, AC power supply, power cord(s), USB cable, Quick Start Guide, Regulatory Guide  
\* Empty ribbon take-up cores and ribbon core adapters included with ZD421 models only

**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](http://www.zebra.com/zebraonecare)

<b>Zebra OneCare Select</b>	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
<b>Zebra OneCare Essential</b>	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**

ZD400 Series printers are warranted against defects in workmanship and materials for a minimum period of 2 (two) years from the date of shipment. Warranty varies by region. For complete warranty details, please visit [www.zebra.com/warranty](http://www.zebra.com/warranty)

**Footnotes**

1. Does not fit when cutter or peeler attached



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