



ZEBRA

# ZD420 4-Inch Thermal Transfer Printer

## A NEW LEVEL OF EASE OF USE, APPLICATION FLEXIBILITY, MANAGEMENT SIMPLICITY AND TCO

The ZD420 delivers features and functionality that take deployment and management simplicity, ease-of-use, application flexibility and total cost of ownership (TCO) to a new level in this printer class. As the next generation in Zebra's thermal transfer desktop line, the ZD420 replaces Zebra's popular GK420t. You get Zebra's easy to use clamshell design combined with an intuitive interface. Field-installable connectivity and media handling options allow you to purchase what you need today, yet easily add new features on site to meet tomorrow's needs. The ZD420 runs Link-OS® and is supported by our powerful Print DNA suite of applications, utilities and developer tools that deliver a superior printing experience through better performance, simplified remote manageability and easier integration. The ZD420 — when ease of use, flexibility and management simplicity matter.



### EASY TO USE — PRACTICALLY NO TRAINING REQUIRED

#### New at-a-glance five LED icons take the guesswork out of printer status

A three-button user interface with five LED status icons replaces the typical single button/single light interface common in desktop printers. There's no guesswork involved — users can instantly see what's needed to keep printers up and running, from replenishing media to resolving printer issues.

### DEPLOYMENT AND APPLICATION FLEXIBILITY

#### Backwards compatibility with virtually any existing printer

With the ZD420, whether you are currently using a Zebra or competitive printer, you'll be able to use the same label formats and applications you're using today. The ZD420 supports both EPL and ZPL printer languages. And with on printer Virtual Devices, part of Zebra's Print DNA suite of tools and utilities, the ZD420 can use languages normally associated with other printer brands.

#### Multiple connectivity options

With multiple connection options, you can connect the ZD420 to your existing wired and wireless networks, or directly to any PC. The ZD420 comes standard with USB and USB Host. You can also choose optional Ethernet or serial and a dual wireless radio that offers the very latest wireless options, Wi-Fi 802.11ac and MFi certified Bluetooth 4.1, which enables printing from any iOS device. And using the included Print Touch tag (NFC), users can simply tap a compatible mobile device on the ZD420 to pair and print — as well as instantly access Zebra's extensive knowledge base of how-to videos.

#### Sharp 300 dpi printing

With 300 dpi printing, you can support more applications. The high image quality enables printing of small 2D labels or labels that require graphics, such as a logo or icon. And if you don't need 300 dpi printing today, you can easily change in the field using an accessory kit as your application needs evolve.

#### Movable sensor for comprehensive media compatibility

While Zebra Certified Printer Supplies provide optimal printer performance, the ZD420's movable media sensor lets you use virtually any media from any manufacturer, giving you the flexibility to utilize supplies you may have on hand or continue to utilize any existing supplies provider.

### EASY TO MANAGE

#### Easily manage all your printers — all from a single location

The ZD420 supports Zebra Link-OS, a one-of-a-kind enterprise printer operating system that makes it easier than ever to manage and troubleshoot your networked printers from one remote location. With optional Printer Profile Manager Enterprise, you can manage one printer, a group of specific printers or all printers anywhere in the world. Instantly discover every ZD420 printer on your network — there's no need to walk through the facility to locate, configure or troubleshoot printers. And an intuitive browser-based interface lets you see printer status at a glance, complete with information that allows you to quickly triage printer issues to prevent or minimize downtime.

## SPECIFICATION SHEET

ZD420 DESKTOP THERMAL TRANSFER PRINTER

### Seamless integration with your device management system

With our MDM Connectors, you can easily integrate networked ZD420 printers into your AirWatch or SOTI MobiControl device management system.

### Easily configure non-networked printers

The USB Host port makes it easy to connect to all your external devices, including keyboards and scanners, and can also be utilized to upgrade printer firmware automatically and set up new printer configurations.

### Maximize uptime with Zebra Visibility Services

If you're still tracking your printers manually, then you are likely missing out on information that could save you money. With Zebra, you can choose powerful visibility service options that deliver critical insight into the information you need to prevent printer downtime. Our Asset Visibility Service (AVS) provides the basic health information and proactive steps required to keep your ZD420 printers up and running — all for just pennies a day. The full-featured Operational Visibility Service (OVS) allows you to monitor just about any aspect of your Zebra printer, as well service and repair status. See the current status and disposition of all of your printers, printers at a specific site, specific printer models or a specific printer — and much more.

## INNOVATIVE FEATURES FOR THE LOWEST TCO

### Zebra Print DNA – transforming printers from the inside

Print DNA is the genetic code that injects business-catalytic capabilities into our Link-OS printers through its unique combination of innovative applications, utilities and developer tools. The result is a superior printing experience through better performance, simplified remote manageability and easier integration.

### Add new features right on site for superior future-proofing

If you need new communication or media handling options in the future, no problem — the printer you buy today can support tomorrow's needs. The modular, field upgradable design allows you to add serial or Ethernet connectivity, 300 dpi support, plus a peeler or a cutter, right on site — no need to send the ZD420 to a service depot.

### Lower your costs with a high capacity ribbon

Intelligent dual-ribbon handling allows the ZD420 to accept either 74 m/244 ft. or high capacity 300 m/984 ft. ribbons. The 300 m ribbon reduces ribbon changes by 75 percent for fewer workflow disruptions. And since the high capacity ribbon costs less per meter than the standard ribbon, you'll also save on the cost of supplies.

### Tidier and safer installations

When you choose the optional power supply accessory, the power supply and all but one power cord are hidden from view, improving aesthetics as well as worker and customer safety.

### Consistently exceptional Zebra Certified Supplies

Printing supplies can impact everything from printhead lifespan to operational efficiency. That's why we design, produce and rigorously pretest our own line of thermal printing supplies to ensure consistent, optimized performance in your Zebra printer — and peace of mind for you. For industry-leading quality, service and thermal printing expertise, choose Zebra Certified Supplies.

### Protect your investment with an affordable service plan

Without a service plan, a single repair can cost more than the printer and can take weeks to complete — but comprehensive service plans are too costly, offering excessive coverage your desktop printers simply don't need. Now, Zebra OneCare SV provides the right level of service at the right price, providing two years of coverage for normal wear and tear, double the standard warranty coverage, priority turnaround times at the depot and more — all for a tiny fraction of the cost of a single repair.

**THE ZD420 — WHEN EASE OF USE, FLEXIBILITY AND MANAGEMENT SIMPLICITY MATTER.**

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# ZD420 Specifications Chart

## STANDARD FEATURES

Thermal Transfer print method  
ZPL and EPL programming languages  
5 status icon, 3 button user interface  
USB 2.0, USB Host  
OpenACCESS™ for easy media loading  
Dual-wall frame construction  
ENERGY STAR qualified

## PHYSICAL CHARACTERISTICS

**Dimensions** 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** 5.3 lb./2.4 kg

## PRINTER SPECIFICATIONS

**Operating System**  Link-OS®

**Resolution** 203 dpi/8 dots per mm  
Optional 300 dpi/12 dots per mm  
Resolution can be factory installed or changed on site via accessory kits. Resolution can be changed from 300 dpi to 203 dpi, as well as from 203 dpi to 300 dpi

**Memory** 512 MB Flash; 256 MB SDRAM for factory Installed network connectivity options  
256 MB Flash; 128 MB SDRAM for printers without factory installed network connectivity options

**Maximum Print Width** 4.09 in./104 mm for 203 dpi  
4.27 in./108 mm for 300 dpi

**Maximum Print Speed** 6 in./152 mm per second (203 dpi)  
4 in./102 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

## MEDIA AND RIBBON CHARACTERISTICS

**Maximum Label Length** 39.0 in./991 mm

**Media Width** 0.585 in./15 mm to 4.65 in./118 mm

**Media Roll Size** 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

**Media Thickness** 0.003 in. (0.08 mm) min.; 0.0075 in. (0.1905 mm) max.

**Media Types** Roll-fed or fan-fold, die cut or continuous with or without black mark, tag stock, continuous receipt paper, and 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); 244 ft. (74 m)

**Ribbon Ratio** • 1:4 media to ribbon (300 m)  
• 1:1 media to ribbon (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 qualified

## OPTIONS AND ACCESSORIES

**Media Handling** Field installable dispenser – label peel and present with label present sensor; field installable cutter

**Communications** Field installable RS-232 auto-sensing Serial, DB-9; Ethernet – 10/100 internal; factory installed wireless dual radio: 802.11ac Wi-Fi and Bluetooth 4.1; Bluetooth Low Energy included as standard on network connected models

**Real Time Clock** Real time clock included as standard on network connected models

**Keyboard Display Unit** ZKDU keyboard display units for stand-alone printing solutions

**Mounting Plate** Optional accessory to secure ZD Series printers to countertops or shelves.

## 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 for multi-language, on demand thermal printing  
China units include SimSun simplified Chinese font  
64 MB user available non-volatile memory, 8 MB user available SDRAM

## PRINTER 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, EN55022 Class B, EN55024, 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

## The ZD420 is ideal in:

### Light Manufacturing

- Agency labels/nameplates
- Product labels
- Apparel tags
- Work-in-Process (WIP)
- Inventory labels
- Agency labels
- Shipping labels

### Transportation & Logistics

- Asset labels
- Shipping labels
- Receiving labels
- Packing slips

### Healthcare

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

### Retail

- Return tags
- Asset labels
- Shelf labels
- Price markdowns
- Information labels

### Government

- Asset labels
- Record labels

### Services







- Service reminder labels
- Ticketing
- Purchase transactions

# ZD420 Specifications (continued)




## PRINT DNA SOFTWARE SOLUTIONS

The ZD420 is supported by our powerful Print DNA suite of applications, utilities and developer tools that give our printers better performance, simplified remote manageability, and easier integration.

### Productivity Tools

- |   |   |
|---|---|
|  Enterprise Printing Solutions |  Print Station   |
|  Pairing Solutions             |  Virtual Devices |
|  PDF Direct                    |  Zebra Designer  |

### Management Tools

- |  |   |
|--|---|
|  Bluetooth Printer Management     |  Printer Setup Utility |
|  Print Profile Manager Enterprise |   |

### Development Tools

- |   |   |
|---|---|
|  Browser Print       |  Network Connect |
|  Cloud Connect      |  PrintConnect   |
|  MultiPlatform SDK |   |

## PRINT DNA SOFTWARE SOLUTIONS (CONTINUED)

### Visibility Tools

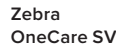

- |  |   |
|--|---|
|  MDM Connectors |  Visibility Services |
|--|---|

Print DNA features may vary by model and a Support Contract may be required. 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

### RECOMMENDED SERVICES

- |  |   |
|--|---|
|  Zebra OneCare SV | Normal wear and tear and functional failure, including extended coverage against Manufacturer's Defects |
|                   | Priority access 8x5 live technical support and software updates   |
|  | 5-day depot repair turnaround time plus free return ground shipping                                     |
|  | Online Return Material Authorization (RMA) support  |



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# ZD420 4-Inch Thermal Transfer Printer

## UNIQUE AND INTELLIGENT TIME-SAVING RIBBON CARTRIDGE FOR FOOL-PROOF INSTANT LOADING

If you need a fast 4-inch printer that is easy to use, easy to deploy and easy to manage, choose the leader of the class — the ZD420. A new ribbon cartridge and more status icons maximize uptime by making using the printer easier than ever to use. With virtually every modern wired and wireless connectivity option and support for many printer languages, deployment is always fast and easy — just unplug your existing printer, plug in the ZD420 and you're back up and running. Add new connectivity and media handling options whenever you need them, right on site. Monitor and manage all your ZD420 printers from the cloud, for unsurpassed management simplicity. And our optional Zebra OneCare service will help you maximize the availability and productivity of your ZD420 printers with unmatched from-the-manufacturer support that covers everything — from worn out printheads to normal wear and tear. The ZD420 — when ease of use, flexibility and management simplicity matter.



### Groundbreaking ease of use

The ZD420 is loaded with features that make it the easiest printer to use in its class. The ZD420 is the only thermal printer to offer a ribbon cartridge, which takes just a few seconds to load, with fool-proof installation — the ribbon cartridge can only be loaded one way for first-time every-time instant loading. The crypto chip in the ribbon lets you know when the ribbon needs replacing. And with five intuitive status icons — status, pause, data, supplies and network — your workers can see at a glance what is needed to keep your Zebra printer up, running and available.

### Get all the features you need today — and easily add the features you need tomorrow

The movable media sensor gives you more media options, including media with off-center black marks, die-cut notches or multiple labels across the width.

With virtually every modern connectivity option, the ZD420 fits into your technology environment now and in the future. Choose from USB, auto-sensing serial or 10/100 Ethernet, as

well as the very latest wireless options: Wi-Fi certified 802.11ac WLAN and Bluetooth 4.1. And you can support wired and wireless users simultaneously.

If you need new communication or media handling options in the future, no problem. Add serial or Ethernet connectivity, plus a peeler or a cutter, right on site — without taking the ZD420 out of service. The result? Maximum functionality and uptime.

The ZD420 offers backwards compatibility with existing applications and formats, plus support for Zebra ZPL and EPL printer languages and many non-Zebra languages, making it easy to upgrade your aging Zebra or competitive printers — just plug in the ZD420 and you're back up and running.

### Easy to clean and sanitize healthcare model

The ZD420 is available in a healthcare model with disinfectant-ready plastics and a sealed button interface that makes it easy to clean and disinfect— crucial in hospitals and clinics. The ZD420 fits easily in space constrained pharmacies, labs and nurses stations. And with its 300 dpi printing option, even the small labels on specimen containers and prescriptions are highly legible.

### Link-OS for unparalleled ease of management

The ZD420 supports Zebra's Link-OS, a unique software platform that makes it easier than ever to integrate, manage and maintain your printers, from any location. With this innovative highly flexible solution, you can manage one printer, a group of specific printers or all printers anywhere in the world via the cloud. And with a quick tap of an NFC-enabled mobile device on the ZD420, you can access Zebra's extensive knowledge base of how-to videos and more, making it easy to obtain the information needed to quickly resolve everyday printer issues.



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# ZD420 Specifications Chart

STANDARD FEATURES		OPTIONS AND ACCESSORIES	
Thermal Transfer print method ZPL and EPL programming languages 5 status icon, 3 button user interface USB 2.0, USB Host Bluetooth low energy OpenACCESS™ for easy media loading Dual-wall frame construction ENERGY STAR qualified Real Time Clock		<b>Media Handling</b> Field installable dispenser – label peel and present with label present sensor; field installable cutter	
<b>PHYSICAL CHARACTERISTICS</b>		<b>Communications</b> Field installable RS-232 auto-sensing Serial, DB-9; Ethernet – 10/100 internal; factory installed wireless dual radio: 802.11ac Wi-Fi and Bluetooth 4.1	
<b>Dimensions</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>Healthcare Model</b> Healthcare model with IEC 60601-1 compliant power supply and healthcare wipeable plastics	
<b>Weight</b> 5.0 lbs./2.3 kg		<b>Keyboard Display Unit</b> ZKDU keyboard display units for stand-alone printing solutions	
<b>PRINTER SPECIFICATIONS</b>		<b>FONTS/GRAPHICS/SYMBOLOGIES</b>	
<b>Resolution*</b> 203 dpi/8 dots per mm Optional 300 dpi/12 dots per mm Resolution can be factory installed or changed on site via accessory kits. Resolution can be changed from 300 dpi to 203 dpi, as well as from 203 dpi to 300 dpi.		<b>Bar Code Ratios</b> 2:1 and 3:1	
<b>Memory</b> 512 MB Flash; 256 MB SDRAM		<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>Maximum Print Width</b> 4.09 in./104 mm for 203 dpi and 300 dpi		<b>2D Bar Codes</b> Codablock, PDF417, Code 49, DataMatrix, MaxiCode, QR Code, MicroPDF, Aztec	
<b>Maximum Print Speed</b> 6 in./152 mm per second (203 dpi) 4 in./102 mm per second (300 dpi)		<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 for multi-language, on demand thermal printing China units include SimSun simplified Chinese font 64 MB user available non-volatile memory, 8 MB user available SDRAM	
<b>Media Sensors</b> Full width, moveable reflective/black mark sensor; multi-position transmissive/gap sensor		<b>PRINTER SUPPLIES</b>	
<b>Firmware</b> ZPL II; EPL 2; XML; ZBI		Keep your Zebra printer up and running with genuine Zebra printer supplies, available directly from Zebra.	
<b>MEDIA CHARACTERISTICS</b>		<b>REGULATORY</b>	
<b>Maximum Label Length</b> 39.0 in./991 mm		<ul style="list-style-type: none"> <li>IEC 60950-1, EN55022 Class B, EN55024, 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</li> <li>CE Marking, VCCI, C-Tick, S-Mark, CCC, CU, BSMI, KCC, SABS, IN-Metro, BIS, NOM</li> </ul>	
<b>Maximum Label and Media Width</b> 4.65 in./118 mm		<b>SOFTWARE TOOLS</b>	
<b>Media Roll Size</b> 5.00 in./127 mm outer diameter 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		<ul style="list-style-type: none"> <li><b>Link-OS: Document Design:</b> Quickly design a customized print solution using your business data and Zebra's intuitive, plug-and-print design tools.</li> <li><b>Device Integration:</b> Zebra offers apps and products designed to help you integrate Zebra devices into your existing systems.</li> <li><b>Device Management:</b> Manage your print operations locally and globally with Zebra's suite of device management tools.</li> <li><b>Developer Tools:</b> Provides you the tools you need to create your own apps, including documentation, source code, programming languages, templates and more.</li> </ul>	
<b>Thickness</b> 0.003" (0.08mm) min.; 0.0075 (.1905mm) max. (tear-off mode only)		<b>RECOMMENDED SERVICES</b>	
<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		Zebra OneCare Select	
<b>OPERATING CHARACTERISTICS</b>			
<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 qualified			

## The ZD420 is ideal in:

### Light Manufacturing

- Agency labels/ nameplates
- Product labels
- Apparel tags

### Transportation & Logistics

- Asset labels

### Healthcare

- Lab and specimen labels
- Asset labels
- Blood and IV bag labels
- Sterile services

### Retail

- Asset labels
- Shelf labels
- Record labels

### Government

- Asset labels
- Record labels

### Services

- Service reminder labels



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