

# ZD420 Healthcare Desktop Printers

A new level of ease of use, application flexibility, management simplicity and TCO

Zebra's ZD420-HC printers deliver 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. Designed for healthcare, this printer is ready for the constant disinfecting and offers a healthcare compliant power supply. Available in both direct thermal and thermal transfer models, the ZD420-HC offers Zebra's easy to use clamshell design combined with an intuitive interface. With optional 300 dpi printing, even the tiniest labels are crisp and legible. ZD420-HC printers run Link-OS™ and are 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-HC — 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

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-HC supports both EPL and ZPL printer languages. And with on printer Virtual Devices, a Zebra Print DNA tools, the ZD420-HC supports languages normally associated with other printer brands.

### Multiple Connectivity Options

With multiple connection options, you can connect the ZD420-HC to your existing wired and wireless networks, or directly to any PC. The ZD420-HC 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-HC to pair and print — as well as instantly access Zebra's extensive knowledge base of how-to videos.

### Easy to Clean and Sanitize

Disinfectant-ready plastics and a sealed button interface make the ZD420-HC easy to clean and disinfect, helping prevent the spread of germs in hospitals and clinics. Its UV-resistant housing supports the growing use of UV-cleaning protocols. And the power supply is IEC 60601-1 compliant for use in healthcare facilities.



**The ZD420-HC — When ease of use, flexibility and management simplicity matter.**

For more information, please visit [www.zebra.com/ZD420](http://www.zebra.com/ZD420)

### **Optional Battery for Cordless Operation**

With the removable desktop battery power option, you can easily transport the ZD420-HC printer on a workstation on wheels for on-the-spot label printing at patient bedside and in the lab to reduce opportunity for errors and improve patient safety. And the high-capacity battery can power it all for a full shift — the printer at maximum print speed, along with a peeler, cutter and keyboard.

### **Sharp 300 DPI Printing for Crisp Labels**

High resolution printing 300 dpi printing is ideal for the tiny labels on everything from patient records and patient wristbands to medication prescriptions and tiny specimen vials.

### **Movable Sensor for Comprehensive Media Compatibility**

The ZD420-HC'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-HC 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. 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.

### **Seamless Integration with Your Device Management System**

With the USB Host port you can easily upgrade printer firmware automatically, set up new printer configurations and connect to all your external devices, including keyboards and scanners.

### **Easily Configure Non-Networked Printers**

With the USB Host port you can easily upgrade printer firmware automatically, set up new printer configurations and connect to all your external devices, including keyboards and scanners.

### **Maximize Uptime with Zebra Visibility Services**

Our Asset Visibility Service (AVS) provides the basic health information and proactive steps required to keep your ZD420-HC 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.

## **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**

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-HC to a service depot.

### **Safeguard Prescription Forms with Optional Locking Features**

The locking media cabinet prevents unauthorized access to high value media, such as blank prescription forms. And the built-in Kensington™ lock slot makes it easy to attach the printer to a desk or table for additional security. (Locking features are available on ZD420d-HC only.)

### **Lower Your Costs with a High Capacity Ribbon**

Intelligent dual-ribbon handling allows the ZD420t-HC 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 patient safety.

### **Consistently Exceptional Zebra Certified Supplies**

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.

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

Access repair support services, live-agent technical support and software support quickly 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 for normal wear and tear, priority repair turnaround times at the depot and more—all for a tiny fraction of the cost of a single repair.

# Specifications

## Standard Features

- Print methods: Thermal Transfer or Direct Thermal
- IEC 60601-1 compliant power supply and healthcare wipeable plastics
- 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
- ZebraDesigner Essentials – easy label design tool free at [www.zebra.com/zebradesigner](http://www.zebra.com/zebradesigner)
- Two-year standard warranty

## Physical Characteristics

Dimensions	ZD420d-HC: 8.7 in. L x 7.0 in. W x 5.9 in. H 221 mm L x 177 mm W x 151 mm H ZD420t-HC: 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	ZD420d-HC: 3.6 lb/ 1.6 kg ZD420t-HC: 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 512 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 mm), 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

## 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; Factory installed or field installable 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
Battery	Provides power to the printer to support a full shift of printing at maximum print speed; supports all media handling options
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
Media Locking Cabinet	Mechanical lock with 2 keys; available on ZD420d-HC only
Carrying Case	Carrying case with shoulder strap and handles makes it easy to bring your desktop printer and battery to the point of application
Mounting Plate	Optional accessory to secure ZD Series printers to countertops or shelves.
Enclosed Power Supply	Attached power supply accessory for cord-free installation

## 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 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

## Markets and Applications

### Healthcare

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

## Media and Ribbon Characteristics

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 Temperature	40° to 105° F/4.4° to 41° C
Storage Temperature	-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; IEC 60601-1 compliant (NOTE: For high volume printing applications, power supply kit P1094879-045 is recommended.)

## 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 ZD420t -HC models only

## Recommended Services

Zebra OneCare SV

## Print DNA Software

This printer 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. Print DNA features may vary by model and may require a Support Contract. For more information, please visit [www.zebra.com/printdna](http://www.zebra.com/printdna)

## Product Warranty

ZD420c-HC 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](http://www.zebra.com/warranty).