ZD420 4-Inch Desktop Printers

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

The ZD420 leads its printer class in deployment and management simplicity, ease-of-use, application flexibility and total cost of ownership (TCO). The next generation in Zebra's advanced desktop line, the ZD420 replaces Zebra's popular GK420 Series. You get an easy to use clamshell design and 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. Link-OS® supports 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. Available in direct thermal and thermal transfer and healthcare-specific models, the ZD420 is ideal for a wide range of applications. The ZD420 — easy, flexible and simple to manage.



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.

Optional Battery For Cordless Operation

With the removable desktop battery power option, you can easily transport the ZD420 printer on a cart to enable on-the-spot printing to reduce steps, increase productivity and improve task accuracy. The battery housing mounts securely to the printer base and connecting the battery is as simple as snapping the battery into the housing. 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.

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

For more information, please visit www.zebra.com/zd420.

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.

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.

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. And it is easy to configure your printers to use secure connections, block unwanted access and ensure your data and infrastructure are protected.

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 ZD420t 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.

Easy to Clean and Sanitize Healthcare Model

The ZD420 is available in a healthcare model with disinfectant-ready, UV-resistant plastics and a sealed button interface that makes it easy to clean and disinfect. It also comes with a healthcare compliant power supply and an optional locking media cabinet to block unauthorized access to high value media like blank prescription forms.

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.

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
- 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
- Two-year standard warranty

Physical Characteristics

Dimension	ZD420d: 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 ZD420t: 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: 3.6 lbs./1.6 kg ZD420t: 5.3 lbs./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
Ribbon Outside Diameter	2.6 in./66 mm (300 m); 1.34 in./34 mm (74 m)
Ribbon	984 ft. (300 m); 244 ft. (74 m)

Fonts/Graphics/Symbologies

Bar Code Ratios	2:1 and 3:1
1D Bar Codes	Code 11, Code 39, Code 93, Code 128, IS BT-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

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, 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

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.

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 models only

Recommended Services

Zebra OneCare SV

Product Warranty

ZD420 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.

Markets and Applications

Light Manufacturing

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

Transportation and 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

Media and Ribbon Characteristics

Standard Length	
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; optional 2750 mAh battery

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; Kensington® lock slot; available on ZD420d Healthcare only
Carrying Case	Carrying case with shoulder strap and handles makes it easy to bring your desktop printer (ZD420 and ZD620 Series) 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

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