Scheda Tecnica ZD421

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 & 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
- PDF Direct
- Two-year standard warranty

Physical Characteristics

Dimension	**Direct Thermal:** 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 **Thermal Transfer Roll:** 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 **Thermal Transfer Cartridge:** 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
Weight	**Direct Thermal:** 2.98 lbs./1.35 kg **Thermal Transfer Roll:** 4.52 lbs./2.05 kg **Thermal Transfer Cartridge:** 5.0 lbs./2.3 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; 256MB 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 Cartridge: 4.09 in./104 mm for 203 and 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; PDF Direct

Media, Ribbon and Cartridge Characteristics

Label Length	Maximum: 39.0 in./991 mm Minimum: 0.25 in./6.4 mm
Media Width	**Direct Thermal:** 0.585 in./15 mm to 4.25 in./108 mm **Thermal Transfer Roll:** 0.585 in./15 mm to 4.41 in./112 mm **Thermal Transfer Cartridge:** 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. (0.19 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	Roll: 984 ft. (300 m); 243 ft. (74 m) Cartridge: 243 ft. (74 m)
Ribbon Ratio	1:4 ribbon to media (300 m) 1:1 ribbon to media (74 m)
Ribbon Width	Roll: 1.33 in./33.8 mm — 4.3 in./109.2 mm Cartridge: 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; Healthcare models include IEC60601-1 certified power supply

Options

Media Handling	Dispenser/Peeler: label peel and present with label present sensor (field installable) Cutter (field installable)
Communications	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

Battery	Provides power to the printer to support a full shift of printing at maximum print speed; supports all connectivity and media handling options
Carrying 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) unit 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

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

Markets and Applications

Retail
- Shelf labels
- Price markdowns
- Return tags
- Asset and inventory labels
- Food information labels
- Receipts
- Pharmacy labels

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

Transportation & Logistics
- Shipping and receiving labels
- Packing slips
- Asset labels

Light Manufacturing
- Agency labels
- Product labels
- Apparel tags
- Work-in-Process (WIP)
- Inventory labels
- Shipping labels

Government
- Asset labels
- Record labels

Services/Hospitality
- Service reminder labels
- Ticketing

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.)*, 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 thermal transfer 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.

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

Product Warranty

ZD421 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.

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Publication Date: 01/26/2021