Zebra® Performance Desktop Printers

GX420™ (thermal transfer and direct thermal)  
GX430™ (thermal transfer)  
ZD500™ (thermal transfer and direct thermal)

Zebra’s performance desktop printers deliver best-in-class print speeds and features for improved efficiency and profitability. Each offers a variety of connectivity options, easy upgrades and integration with ZPL® and EPL™ (GX models only) programming languages and reduced total cost of ownership as ENERGY STAR® qualified printers.

Performance desktop printers support a wide range of applications; there’s a printer for almost every environment. Whatever your needs – from flexibility to innovative label capabilities to time savings and reduced operator training – these printers deliver. Extended media handling options include peel and present, precision cutter for labels, receipts and tags, and linerless labels.

Ideal for these applications

Retail  
Healthcare  
Light manufacturing  
Hospitality  
Postal counter automation  
High-resolution label printing
Fast print speeds. Advanced features. Performance options to meet your needs.

GX420
This compact printer, available with direct thermal or thermal transfer, combines an intuitive design and optional LCD user interface with versatile connectivity options.

GX430
Ideal for small-label printing of text and graphics, Zebra’s high-resolution GX430 thermal transfer printer delivers outstanding quality and fast printing speeds.

ZD500
The ZD500 features Zebra’s Link-OS® environment – an innovative operating system combining a powerful Multiplatform Software Development Kit and software applications – making it easy to integrate, manage and maintain from any location around the globe. Coupled with intuitive ribbon and media loading, it’s designed to be simple to set up and operate. Offering high-resolution print quality and quadruple connectivity options, the ZD500 is compact and feature-packed for top performance. The ZD500 also has optional UHF RFID capabilities.

The Link-OS Environment In-depth

To meet changing expectations and growing demands for devices that are mobile, intelligent and connected to the Cloud, Zebra created a new software platform to support its devices: Zebra’s Link-OS environment. This innovative solution makes Zebra printers even easier to integrate, manage and maintain than ever before – from any location.

The Link-OS environment is highly flexible, allowing new and creative ways for users to develop applications that interact with Zebra printers from mobile devices located anywhere in the world. Users can perform updates, gather data, and make smarter business choices from new analytic-driven insights.

ZD500 Link-OS Environment Features

<table>
<thead>
<tr>
<th>Link-OS App</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual Devices</td>
<td>Support well-known legacy and competitor printer languages – in addition to ZPL and EPL – for a future-proofed investment</td>
</tr>
<tr>
<td>Print Touch</td>
<td>Award-winning, webpage launching features using Near Field Communication (NFC) make it easy to access Zebra’s extensive knowledge base of how-to videos and product support</td>
</tr>
<tr>
<td>Cloud Connect</td>
<td>Interact securely and directly with the Cloud for printing and device management</td>
</tr>
<tr>
<td>Profile Manager</td>
<td>Edit and manage one printer, batches of printers or all Link-OS printers across your network anywhere in the world</td>
</tr>
</tbody>
</table>
## COMPARING THE GX420, GX430 AND ZD500

Compare the features to see which printer best suits your needs.

<table>
<thead>
<tr>
<th>Feature</th>
<th>GX420</th>
<th>GX430</th>
<th>ZD500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print Resolution</td>
<td>203 dpi</td>
<td>300 dpi</td>
<td>203/300 dpi</td>
</tr>
<tr>
<td>Maximum Print Width</td>
<td>102 mm/4”</td>
<td>102 mm/4”</td>
<td>102 mm/4”</td>
</tr>
<tr>
<td>Maximum Print Speed</td>
<td>152 mm/6” per second</td>
<td>102 mm/4” per second</td>
<td>• 152 mm/6” per second (203 dpi)</td>
</tr>
<tr>
<td>Connectivity</td>
<td>• USB v1.1, Serial, Parallel (Standard)</td>
<td>• USB v1.1, Serial, Parallel (Standard)</td>
<td>• USB v2.0, Serial, Parallel and Ethernet (Standard)</td>
</tr>
<tr>
<td></td>
<td>• Ethernet or 802.11b/g or Bluetooth® 2.0 (Optional, replaces parallel port)</td>
<td>• Ethernet or 802.11b/g or Bluetooth 2.0 (Optional, replaces parallel port)</td>
<td>• Dual radio 802.11a/b/g/n and Bluetooth 3.0 (Optional)</td>
</tr>
<tr>
<td>User Interface</td>
<td>LCD user interface (Optional)</td>
<td>LCD user interface (Optional)</td>
<td>LCD user interface (Standard)</td>
</tr>
<tr>
<td>Management and Support</td>
<td>ZebraLink™</td>
<td>ZebraLink™</td>
<td>Link-OS-enabled for remote management</td>
</tr>
<tr>
<td>Media Handling Options</td>
<td>• Cutter</td>
<td>• Cutter</td>
<td>• Cutter</td>
</tr>
<tr>
<td></td>
<td>• Dispenser – label peel and present with label present sensor</td>
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</tr>
<tr>
<td>Standard Sensors</td>
<td>• Fixed transmissive and reflective sensors (Standard)</td>
<td>• Fixed transmissive and reflective sensors (Standard)</td>
<td>Multi-position gap and adjustable reflective sensors</td>
</tr>
<tr>
<td></td>
<td>• Multi-position transmissive and full width reflective sensor (Optional)</td>
<td>• Multi-position transmissive and full width reflective sensor (Optional)</td>
<td></td>
</tr>
</tbody>
</table>
### SPECIFICATIONS AT A GLANCE*

<table>
<thead>
<tr>
<th>Media Types</th>
<th>• Roll-fed or fan-fed, die-cut or continuous direct thermal labels with or without black line, tag stock, continuous receipt paper, wristbands</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ribbon Characteristics</td>
<td>• Outside diameter: 35 mm/1.38”</td>
</tr>
<tr>
<td></td>
<td>• Standard length: 74 m/244’</td>
</tr>
<tr>
<td></td>
<td>• Ratio: 1:1 media to roll to ribbon</td>
</tr>
<tr>
<td></td>
<td>• Width: 33.8 mm/1.33” to 109.2 mm/4.3”</td>
</tr>
<tr>
<td></td>
<td>• Core inner diameter: 12.7 mm/0.5”</td>
</tr>
</tbody>
</table>

### Operating Characteristics

**Environmental**
- Operating temperature: 4.4° C/40°F to 41° C/105°F
- Storage temperature: -40° C/-40° F to 60° C/140°F
- Operating humidity: 10% to 90% non-condensing
- Storage humidity: 5% to 95% non-condensing

**Electrical**
- Auto-detectable (PFC Compliant) 100-240VAC, 50-60Hz

### Agency Approvals

- Emissions: FCC Part 15, Subpart B, VCCI, C-Tick
- Emissions and Susceptibility: (CE): EN55022
- Class-B, EN61000-3-2, EN61000-3-0 and EN50024, CCC, Wi-Fi® certified

### Physical Characteristics

- **Width:** Direct Thermal: 171 mm/6.75”
- **Height:** 192 mm/7.6”
- **Depth:** 192 mm/7.6”
- **Weight:** 1.4 kg/3 lbs 2.1 kg/4.6 lbs /

### ZD500

- **Optional:** Multi-position transmissive and full-width reflective
- **Standard:** Fixed transmissive and reflective

### GX Models

- **Maximum Print Width:** 126 mm/5”
- **Maximum Print Length:** 350 mm/14”
- **Minimum Width:** 25.4 mm/1.0”
- **Core Inner Diameter:** 12.7 mm/0.5”
- **Roll-fed or fan-fed, die-cut or continuous direct thermal labels with or without black line, tag stock, continuous receipt paper, wristbands**

### Memory

- **GX Models:** Standard: 4 MB Flash; 8 MB SDRAM
- **Optional:** 64 MB (68 MB total) Flash with real-time clock
- **ZD500:** 128 MB Std SDRAM memory (4 MB available to user)
- **256 MB Std Flash memory (56 MB available to user)**
- **Real time clock**

### Media Roll Size

- **35 mm/1.375”, 37.1 mm/1.5”, 76 mm/3”**
- **Maximum outside diameter:** 127 mm/5”
- **Core inner diameter:** 12.7 mm/0.5”, 25 mm/1.0”, 35 mm/1.375”, 37.1 mm/1.5”, 76 mm/3”

### Media Thickness

- **GX Models:** 0.08 mm/0.003” to 0.019 mm/0.0075”
- **ZD500:** 0.08 mm/0.003” to 0.305 mm/0.012”

### Communication and Interface Capabilities

- **ZD500:** RS-232 auto-sensing Serial interface, DB-9 (standard)
- **USB V2.0, bi-directional (standard)**
- **Centronics® Parallel (standard)**
- **Ethernet – 10/100 internal (optional)**
- **Wireless – Dual radio 802.11a/b/g/n and Bluetooth 3.0 (optional)**
- **GX Models:** RS-232 auto-sensing serial interface, DB-9
- **USB V1.1, bi-directional**
- **Centronics Parallel**
- **Ethernet – 10/100 internal (optional)** offered in combination with USB and Serial interface (replaces Parallel port)
- **Wireless – 802.11b/g or Bluetooth 2.0 (optional)** with LCD display offered in combination with USB and Serial interfaces (replaces Parallel port)

### Fonts/Graphics/Symbols

- **Fonts and Character Sets:** 16 resident expandable ZPL II bitmap fonts
- **ZBI™: 2 resident scalable ZPL fonts**
- **One resident scalable ZPL fonts**
- **Five resident expandable EPL fonts (GX models only)**
- **Native open-type font support**
- **Unicode™ compliant for multi-language, on-demand thermal printing**

### Barcode Symbols

- **Barcode Ratios:** 2:1 (non-rotated) and 3:1
- **Linear Barcodes:** Codabar, Code 11 (ZPL), Code 128, Code 39, Code 93, EAN-13, EAN-8, EAN-14 (ZPL), German Post Code (EPL), Industrial 2-of-5 (ZPL), Interleaved 2-of-5, Japanese Postnet (EPL), ISBT-128 (ZPL), Logmarts (ZPL), MSI, Plessey, Postnet, GS1 DataBar (RSS-14), Standard 2-of-5 (ZPL), UCC/EAN-128 (EPL), UPC and EAN 2 or 5 digit extensions (ZPL), UPC-A, UPC-A/C and UPC-E with EAN 2 or 5 digit extensions, UPC-E, and GS1 DataBar (formerly RSS). EPL Barcodes are GX models only
- **2-Dimensional:** Codablock (ZPL), Code 49 (ZPL), Data Matrix, MaxiCode, QR Code, PDF417, MicroPDF417, Aztec (for EPL and ZPL except where noted)

### Options and Accessories

- **Dispenser – label peel and present with label present sensor**
- **UHF RFID capabilities help keep your critical operations running efficiently (optional, ZD500)**
- **Adjustable media sensor (GX models)**
- **Cutter for various media types**
- **300 dpi print resolution printing for fine detail and crisp images (ZD500)**
- **64 MB Flash memory with real-time clock (for total of 86 MB) (GX models)**
- **Font Packs – Asian and other international font kits**
- **KDU Plus™ and ZKDU™ keyboard display units for stand-alone printing solutions**

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*Specifications subject to change without notice.

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