Zebra ZT600 Series Industrial Printers

The Next Generation Xi Series, now with more intelligence and industrial brawn

Advancing the legacy of their industry-leading Xi Series predecessors, the ZT610 and ZT620 combine rugged durability and exceptional performance on a user-friendly, future-ready platform. These next-generation workhorses are designed to help you navigate the rapidly evolving business technology landscape. So, whether you’re concerned about growing production line demands, increasing operational complexities, integrating disparate systems or controlling investment costs, ZT600 Series Industrial Printers have you covered today—and for years to come.

A Leap Forward in Industrial Thermal Printing

Zebra’s industrial printers are well known for their durability, fast print speed, long life span and unparalleled reliability. The ZT610 and ZT620 build on that legacy, with the most advanced, comprehensive feature sets of any Zebra stationary printer series. To start, easily navigate printer settings and see status at a glance via the brightly lit, 4.3-inch full-color touch display. To keep your critical operations running smoothly across a broad range of applications, ZT600 Series printers provide:

24/7 Reliability in the Harshest Environments

ZT600 Series printers are built to withstand the most demanding industrial conditions, virtually eliminating operational downtime due to printer failure. Plus, they meet your high-volume production needs, day in and day out, with superior print quality and speed across the widest range of applications.

Micro-Consistent Printing for Top-Quality Micro Labels

Featuring highly precise registration and print line adjustment, the ZT610 offers 600 dpi printing for labels as small as 3 mm high (length) for applications like circuit boards, chips and miniature components—all without wasting expensive media due to improper printing.

User-Friendly Setup, Use, Maintenance & Troubleshooting

Intuitive Print DNA software, powered by Link-OS®, delivers unparalleled intelligence and innovation for advanced connectivity, device management and privacy controls. User-friendly design features, including an optional color touch display, streamline everything from deployment to daily use to routine maintenance. Compatibility with other printing systems and technologies simplifies integration and management, while onboard sensors, diagnostics and help resources guide troubleshooting so users don’t have to call in support for every minor issue.

Highly Adaptable, Future-Ready Platforms

The last thing you need is a new piece of technology that will be obsolete in just a couple of years. That’s why the ZT600 Series was engineered with the future in mind—from an adaptable design that allows communications, media handling and other upgrades in the field, to compatibility with SOTI and AirWatch device management software, to intuitive Link-OS applications that simplify updates and reconfiguration as needed.
Unparalleled Performance Today

- All-metal heavy gauge structural components are engineered to withstand the demands of 24/7 operations for years of continuous use
- Built-in thermal management eliminates vents and cooling fans, blocking dust and debris for trouble-free printing even in challenging environments
- High-quality print mechanism and internal components are meticulously designed to ensure outstanding performance and reliability
- Best-in-class, high-resolution printing for micro labels offers exceptional quality for precision applications
- Long-life printheads reduce replacement costs and printer downtime
- Easy-adjust printhead pressure toggles feature a scale and color-coded pressure indicators to simplify printer setup and operation

User-Friendly for Day-to-Day Operations

- Simple, intuitive side-loading of media increases printer uptime and reduces training requirements
- Highly visible color display turns red when the printer is in an error state, allowing users to determine printer status from a distance
- Guided media paths change color when a media error occurs, providing simple visual cues to help users locate and resolve problems quickly
- Color LCD interface or optional 4.3-inch full-color touch display allow you to quickly navigate printer settings with the user-friendly icon menu system to change languages, printer settings, connectivity options and more
- Interior cabinet light illuminates ribbon and media paths for optimal visibility
- Color-coded components enable easy identification of all touch points
- QR codes link to error-specific help videos for fast problem resolution
- Quick-change printhead simplifies maintenance with easy-in/easy-out socket, no wires—and no hassles
- Fused upper and lower media sensors offer the convenience of single-knob adjustment without compromising alignment

Insight for a Smarter Tomorrow

- Link-OS Printer Profile Manager Enterprise lets administrators monitor networked Link-OS printers from a single user-friendly, browser-based interface
- Mobile Device Management connectors easily integrate networked printers into AirWatch or SOTI Device Management systems
- Link-OS Cloud Connect provides a direct, encrypted and authenticated connection to link printers to on-premise or cloud-based servers
- Zebra's Visibility Services Portfolio enables enterprises to track and analyze printer health, performance and usage, facilitating improved business performance

Adaptability for a Bright Future

- Optional advanced RFID encoding capabilities are easy to install and use
- Field-installable media handling options utilize bulkhead electrical connectors for quick installation to expand printer capabilities
- Two USB host ports offer the flexibility to connect a wide range of peripheral devices
- Two open communication slots for fast and easy addition of connectivity options including 802.11ac, parallel, Ethernet, IPv6 and applicator interface

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.
Complete Visibility & Control
Operational & Asset Visibility Services (OVS/AVS) perfectly complement your business technology investments by giving you deep insight into the status, utilization and functionality of Link-OS enabled printing systems critical to your core processes. Plus, with Printer Profile Manager Enterprise, you can manage settings, firmware and more, on-site or remotely, so you're always in control.

Zebra OneCare® Services
To enable predictable performance and improved business outcomes while eliminating unbudgeted repair costs, Zebra OneCare delivers expert technical assistance, repair services and software support for your ZT600 Series printer. Choose from a variety of plans to fit your specific operational needs—both today and as your operations evolve.

ZT610 & ZT620 Feature Comparison

<table>
<thead>
<tr>
<th>Feature</th>
<th>ZT610</th>
<th>ZT620</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Print Width</td>
<td>4.09&quot; (104 mm)</td>
<td>6.6&quot; (168 mm)</td>
</tr>
<tr>
<td>Maximum Ribbon Length</td>
<td>450 m</td>
<td>450 m</td>
</tr>
<tr>
<td>Maximum Print Speed</td>
<td>14 ips at 203 dpi, 12 ips at 300 dpi, 6 ips at 600 dpi</td>
<td>12 ips at 203 dpi, 8 ips at 300 dpi</td>
</tr>
<tr>
<td>User Interface</td>
<td>Color, graphical LCD, status icons, Optional: Brightly lit, 4.3-inch, full-color touch display</td>
<td>Color, graphical LCD, status icons, Optional: Brightly lit, 4.3-inch, full-color touch display</td>
</tr>
<tr>
<td>Print Resolution (dpi)</td>
<td>203, 300, 600</td>
<td>203, 300</td>
</tr>
<tr>
<td>Printer Control Language</td>
<td>ZPL, ZPL II</td>
<td>ZPL, ZPL II</td>
</tr>
</tbody>
</table>
### ZT600 Series Specifications

#### Standard Features
- Print Methods: Thermal transfer and direct thermal printing
- Construction: Metal frame and bi-fold metal media cover with enlarged clear viewing window
- Side-loading supplies path for simplified media and ribbon loading
- Thin film printhead with E**™ Energy Equalizer for superior print quality
- Communications: USB 2.0, high-speed, RS-232 Serial, Gigabit Ethernet, Bluetooth 4.0
- Highly visible color display that turns red when the printer is in an error state allows operators to determine printer status from a distance
- Simplified icon menu navigation system categorizes settings into logical groups of functions

#### Printer Specifications

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Link-OS®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>203 dpi/8 dots per mm</td>
</tr>
<tr>
<td>Memory</td>
<td>16 GB RAM memory</td>
</tr>
<tr>
<td>Maximum Print Width</td>
<td>ZT600: 4.097/104 mm</td>
</tr>
<tr>
<td>Maximum Print Speed</td>
<td>ZT600: 14 ips/356 mm per second</td>
</tr>
<tr>
<td>Media Sensors</td>
<td>Dual media sensors: transmissive and reflective</td>
</tr>
<tr>
<td>Maximum Continuous Print Length</td>
<td>ZT600: 203 dpi/150/3810 mm</td>
</tr>
<tr>
<td>Media Characteristics</td>
<td></td>
</tr>
<tr>
<td>Media Width</td>
<td>ZT600: 0.079/20 mm to 4.57/114 mm</td>
</tr>
<tr>
<td>Maximum Media Roll Size</td>
<td>8.0/203 mm O.D. on a 3.3/81 mm I.D. core</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.002/0.058 mm to 0.002/0.25 mm</td>
</tr>
<tr>
<td>Media Types</td>
<td>Continuous, die-cut, notch, black-mark</td>
</tr>
<tr>
<td>Ribbon Characteristics</td>
<td></td>
</tr>
<tr>
<td>Standard Length</td>
<td>147.6/450 m</td>
</tr>
<tr>
<td>Width</td>
<td>ZT600: 0.079/20 mm to 4.33/110 mm</td>
</tr>
<tr>
<td>Core</td>
<td>1.0/25.4 mm I.D.</td>
</tr>
</tbody>
</table>

#### Operating Characteristics

| Environmental Operating Temperature | - Thermal transfer: +40°F to 104°F/5°C to 40°C | - Direct thermal: +32°F to 104°F/0°C to 40°C |
| Storage/Transportation Temperature | -22°F to 140°F | -30°C to 60°C |
| Humidity | 20% to 85% non-condensing |
| Electrical | - Auto-detectable (IPC Compliant) 90-265 VAC, 47-63Hz |
| Agency Approvals | IEEE 60950, EN 55022 Class B, EN 55024, EN 61000-3-2, EN 61000-3-3, cULus, CE Marking, FCC, C, ICES-003, VCCI, C-Tick, NOM, S-Mark (Arg), CCC, EU, BSMI, KCC, SABS, IN-Metro |

#### Physical Characteristics

<table>
<thead>
<tr>
<th>ZT600 closed</th>
<th>ZT620 closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>19.88/505 mm</td>
</tr>
<tr>
<td>Width</td>
<td>10.56/268.2 mm</td>
</tr>
<tr>
<td>Height</td>
<td>15.58/395.68 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>50 lbs/22.7 kg</td>
</tr>
</tbody>
</table>

#### Print DNA Software Solutions

| Development Tools | With faster, easier and smarter integration of Zebra printers with your devices and applications, your Print DNA management solutions are up and running in less time, with less cost. |
| Management Tools | Minimize IT effort and maximize IT control with Print DNA management tools — the easy way to add and manage any number of printers, anywhere — from a handful of printers to thousands of printers all around the world. |
| Productivity Tools | Reach new levels of productivity with innovations that streamline tasks and workflow optimize device performance and solve tomorrow’s printing problems today. |
| Visibility Tools | Regardless of whether or not you have an existing Mobile Device Management solution in place, robust Visibility Tools provide unparalleled insight into printer health, usage and performance. |

#### Ideal for These Applications

- **Manufacturing:** Work-in-process, Product ID / serial numbers, Package labeling, Receiving / put-away labeling
- **Transportation and Logistics:** Order picking / packing, Shipping / receiving, Cross docking, Compliance labeling
- **Retail:** Distribution centers, Back-of-store operations
- **Healthcare:** Laboratory labeling, Blood bank labeling, Asset tracking, Pharmacy labeling
- **Zebra printing solutions are up and running in less time, with less cost.**

#### Connectivity
- Two open communication slots to add internal cards for 802.11ac, parallel, Ethernet, and applicator interface. IP6x option is available as an external dongle attached to a parallel port
- **Media Handling:** Rewind: Internally rewinds a full roll of printed labels on 3" core, or peels and rewinds liner
- **Cutter:** Front-mount guillotine cutter and catch tray
- **Link-side in ribbon supply spindle**
- **RFID:** Supports tags compatible with UHF EPC Gen 2 V2, ISO18000-63 andRAIN RFID protocols
- **Integrated RFID system is user-upgradable in the field and available on both 4" and 5" models**
- **Adaptive Encoding Technology automatically selects optimum encode settings**

#### Display
- **Flatly lit, 4.3-inch full-color touch display with clear navigation and immediate responsiveness and performance**

#### Options and Accessories

- **ZBI 2.0™** keyboard display units for stand-alone printing applications
- **Element Energy™ Equalizer** for superior print quality
- **Link-OS®**
- **ZT610**
- **ZT620: 12 ips/305 mm per second**
- **ZT610: 14 ips/356 mm per second**
- **600 dpi/24 dots per mm (optional)** for ZT600 only

#### Barcode Symbologies

- 2D Barcodes: Codablock, PDF417, Code 49, DataMatrix, Code 39, MicroPDF, RSS-14 (and composite), Aztec

#### Fonts and Graphics

- 16 resident scalable ZPL fonts
- Asian and other international scalable and smooth bitmapped fonts
- UNC-89 for multi-language printing
- Downloadable objects include graphics, scalable and bitmap fonts, label templates and formats
- IBM Code Page 850 international character sets are available in the fonts A, B, C, D, E, F, G and H through software control
- Code Page 1250, 1252, 1253, 1254, 1255 Support with font 0
- 32 MB user available DRAM
- 512 MB user available on board Flash

#### Zebra Applications

- Pharmacy labeling
- Asset tracking
- Shipping / receiving
- Cross docking
- Complain labeling
- Distribution centers
- Back-of-store operations
- Laboratory labeling
- Blood bank labeling
- Asset tracking
- Pharmacy labeling
- Print DNA and Print DNA Management enable you to access functionality, streamlining tasks and workflow, optimize device performance, and solve tomorrow’s printing problems today.

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