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.

ZT610™

ZT620™

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 unparalled 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.

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Exceptional Today, Ready for Tomorrow, Built for the Future.

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.

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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

	ZT610	ZT620
Maximum Print Width	4.09" (104 mm)	6.6" (168 mm)
Maximum Ribbon Length	450 m	450 m
Maximum Print Speed	14 ips at 203 dpi 12 ips at 300 dpi 6 ips at 600 dpi	12 ips at 203 dpi 8 ips at 300 dpi
User Interface	Color, graphical LCD, status icons Optional: Brightly lit, 4.3-inch, full-color touch display	Color, graphical LCD, status icons Optional: Brightly lit, 4.3-inch, full-color touch display
Print Resolution (dpi)	203, 300, 600	203, 300
Printer Control Language	ZPL, ZPL II	ZPL, ZPL II

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PRODUCT SPEC SHEET
ZT600 SERIES INDUSTRIAL PRINTERS

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^{3}™ Element 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

Operating System	Link-OS®
Resolution	203 dpi/8 dots per mm 300 dpi/12 dots per mm (optional) 600 dpi/24 dots per mm (optional for ZT610 only)
Memory	1 GB RAM memory 2 GB on-board linear Flash memory
Maximum Print Width	ZT610: 4.09"/104 mm ZT620: 6.6"/168 mm
Maximum Print Speed	ZT610: 14 ips/356 mm per second ZT620: 12 ips/305 mm per second
Media Sensors	Dual media sensors: transmissive and reflective
Maximum Continuous Print Length	ZT610 • 203 dpi: 150"/3810 mm • 300 dpi: 100"/2540 mm • 600 dpi: 30"/762 mm ZT620 • 203 dpi: 80"/2032 mm • 300 dpi: 80"/2032 mm

Media Characteristics

Media Width	ZT610 • 0.79"/20 mm to 4.5"/114 mm ZT620 • 2.0"/51 mm to 7.1"/180 mm
Maximum Media Roll Size	8.0"/203 mm O.D. on a 3"/76 mm I.D. core
Thickness	0.0023"/0.058 mm to 0.010"/0.25 mm
Media Types	Continuous, die-cut, notch, black-mark

Ribbon Characteristics

Standard Length	1476'/450 m
Width	ZT610: 0.79"/20 mm to 4.33"/110 mm ZT620: 2.0"/51 mm to 6.7"/170 mm
Core	1.0"/25.4 mm I.D.

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 Operating Humidity: 20% to 85% non-condensing Storage/Transportation Temperature: -22F to 140F/ -30C to 60C Storage Humidity: 20% to 85% non-condensing
Electrical	Auto-detectable (PFC Compliant) 90-265 VAC, 47-63Hz, rated at 250 Watts ENERGY STAR qualified
Agency Approvals	IEC 60950, EN 55022 Class B, EN 55024, EN 61000-3-2, EN 61000-3-3 cTUVus, CE Marking, FCC-B, ICES-003, VCCI, C-Tick, NOM, S-Mark (Arg), CCC, CU, BSMI, KCC, SABS, IN-Metro

Physical Characteristics

	ZT610 closed	ZT620 closed
Length	19.88"/505 mm	19.88"/505 mm
Width	10.56"/268.2 mm	13.44"/341.45 mm
Height	15.58"/395.68 mm	15.58"/395.68 mm
Weight	50 lbs/22.7 kg	57.4 lbs/26 kg

Print DNA Software Solutions

Development Tools	With faster, easier and smarter integration of Zebra printers with your devices and applications, your Zebra printing 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

Print DNA features may vary by model and a Support Contract may be required. For more information, please visit: www.zebra.com/printdna

Firmware

ZBI 2.0™ – Optional powerful programming language that lets printers run stand-alone applications, connect to peripherals and much more.
ZPL and ZPL II® – Zebra Programming Language provides sophisticated label formatting and printer control, and is compatible with all Zebra printers.
XML-enabled Printing – allows XML communications for barcode label printing.

Barcode Symbologies

Linear Barcodes: Code 11, Code 39, Code 93, Code 128 with subsets A/B/C and UCC Case Codes, 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, Planet Code

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

Fonts and Graphics

16 resident expandable ZPL II bitmap and two resident scalable ZPL fonts

Asian and other international scalable and smooth bitmapped fonts

Unicode™: 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 0 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

Options and Accessories

Connectivity
- Two open communication slots to add internal cards for 802.11ac, parallel, Ethernet, and applicator interface. IPv6 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
- Ink-side in ribbon supply spindle

RFID
- Supports tags compatible with: UHF EPC Gen 2 V2, ISO/IEC 18000-63 and RAIN RFID protocols
- Integrated RFID system is user-upgradable in the field and available on both 4" and 6" models
- Adaptive Encoding Technology automatically selects optimum encode settings

Display
- Brightly lit, 4.3-inch full-color touch display with clear navigation and immediate status visibility and support

Keyboard Display Unit
- ZKDU™ keyboard display units for stand-alone printing applications

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

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