ZT6 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, ZT6 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 are build on that legacy. To start, easily navigate printer settings and see status at a glance via the brightly lit, 4.3 in. full-color touch display. Zebra touchscreens are expertly designed and thoroughly tested with toughness and reliability consistent with the rest of the Zebra printer portfolio. This includes Zebra's robust tolerance to temperature, humidity, dust, and other environmental challenges.

24/7 Reliability in the Harshest Environments

ZT6 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 Label Option for Top Quality Small Labels

The new ZT610 600 dpi Micro Label Printer delivers up to 50% more precise registration[1] for printing labels as small as 3 mm, helping to reduce media waste and keep operations running. This new option supports a wider range of media sizes and has been enhanced for integration with automated labeling systems.

User-Friendly Setup, Use, Maintenance and Troubleshooting

Intuitive Zebra DNA™ software, powered by Link-OS™, delivers unparalled intelligence and innovation for advanced connectivity, device management and privacy controls. User-friendly design features 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 ZT6 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 device management software, to intuitive Zebra DNA applications that simplify updates and reconfiguration as needed.

The next generation of premium printing.

For more information, visit www.zebra.com/zt600

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

• 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

• 4.3 in. full-color touch display allows 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

• Zebra DNA Printer Profile Manager Enterprise lets administrators monitor networked Link-OS printers from a single user-friendly, browser-based interface

•With Zebra DNA for Printers' MDM Support, you can easily integrate networked ZT6 Series printers into existing device management systems such as OmnisaaTM Workspace ONE® (via Zebra's AirWatch Connector) and SOTI® Connect.

• Zebra DNA 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 802.11ax, 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.

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 E3™ Element Energy™ Equalizer for superior print quality• Communications: USB 2.0, RS-232 Serial, Gigabit Ethernet, Bluetooth®• Brightly lit, 4.3 in. full-color touch display with clear navigation and immediate status visibility and support

Physical Characteristics

Dimensions (closed)	ZT610: 19.88 in. L x 10.56 in. W x 15.58 in. H 505 mm L x 268.2 mm W x 395.68 mm H ZT620: 19.88 in. L x 13.44 in. W x 15.58 in. H 505 mm L x 341.45 mm W x 395.68 mm H
Weight	ZT610: 50 lbs/22.7 kg ZT620: 57.4 lbs/26 kg

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) 600 dpi/24 dots per mm for micro label printing (optional for ZT610 only)
Memory	1 GB RAM memory 2 GB on-board linear Flash memory
Maximum Print Width	ZT610: 4.09 in./104 mm ZT620: 6.6 in./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 in./3810 mm 300 dpi: 100 in./2540 mm 600 dpi: 30 in./762 mmZT620: 203 dpi: 80 in./2032 mm 300 dpi: 80 in./2032 mm

Media Characteristics

Media Width	ZT610: 0.79 in./20 mm to 4.5 in./114 mm ZT610 Micro Label Printer: 0.47 in./12 mm to 4.5 in./114 mm ZT620: 2.0 in./51 mm to 7.1 in./180 mm
Maximum Media Roll Size	8.0 in./203 mm O.D. on a 3 in./76 mm I.D. core
Thickness	0.0023 in./0.058 mm to 0.010 in./0.25 mm
Media Types	Continuous, die-cut, notch, black-mark

Ribbon Characteristics

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

Programming Languages

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: • Dual band 802.11ax Wi-Fi and Bluetooth 5.3 • Parallel • Ethernet • Applicator interface IPv6 option is available as external dongle attached to a parallel port.
Media Handling	Rewind: Internally rewinds a full roll of printed labels on 3 in. core, or peels and rewinds liner Cutter: Front-mount guillotine cutter and catch tray Ink-side in ribbon supply spindle
Micro Label Printer	High precision option for ZT610 600 dpi only Supports a wider range of media sizes Two media handling options: • Tear • Rewind: can be operated in rewind mode to internally rewind a full roll of printed labels or peel mode to peel label and rewind liner Note: Cutter and RFID not supported
RFID	Supports tags compatible with: UHF EPC Gen 2 V2.1, ISO/IEC 18000-63 and RAIN RFID protocols Integrated RFID system is user-upgradable in the field and available on both 4 in. and 6 in. models Adaptive Encoding Technology automatically selects optimum encode settings
Keyboard Display Unit	ZKDU™ keyboard display units for stand-alone printing applications

Markets and 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 labels
• Blood bank labeling
• Asset tracking
• Pharmacy labeling

Operating Characteristics

Operating Temperatures	Thermal transfer: 40ºF to 104ºF/5ºC to 40ºC Direct thermal: 32ºF to 104ºF/0ºC to 40ºC
Operating Humidity	20% to 85% non-condensing
Storage/Transportation Temperature	-22°F to 140°F/-30°C to 60°C
Storage Humidity	20% to 85% non-condensing
Electrical	Auto-detectable (PFC Compliant) 90-265 VAC, 47-63Hz, rated at 250 Watts ENERGY STAR certified
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

Zebra DNA for Printers

Zebra DNA is a suite of software tools that enable Zebra printers to deliver a full lifecycle of exceptional experiences for every kind of user through built-in applications, utilities and tools to get your printer up and running quickly and securely. For more information, please visit www.zebra.com/zebradna

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
	Note: Service availability may vary by region.

Footnotes

1. Compared to a standard ZT610 600 dpi

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