ZT600 RFID Industrial Printers

Strong, smart and scalable RFID encoding

To stay ahead in today's highly competitive manufacturing or transportation and logistics industries, you need technology solutions that will grow with your business. ZT600 Series printers combine industrial durability and user-friendly features with future-proof adaptability–including a factory–or field-installable RFID encoder–to meet your evolving needs for years to come. Featuring Zebra DNA™ for Printers, a suite of applications, utilities and developer tools–all powered by Link-OS™–these RFID printers are easy to integrate, manage and maintain from any location around the globe. Optimized to accurately and efficiently print and encode labels and tags, the ZT600 Series RFID printers give greater control, and insight, which can lead to significant advantages in a highly competitive environment.

Get unparalleled visibility and control with Link-OS

At Zebra, we believe printers should be as intuitive, user-friendly and integrated as the smartphones and other devices that keep us connected outside of work. With intuitive Zebra DNA software, powered by Link-OS, they are. These powerful tools give you unprecedented, real-time visibility and control of your printing systems, on-site or remotely, with cloud-accessible applications that simplify everything from setup to management to troubleshooting.

Expand your view with industry-leading tracking technology

It only takes five minutes to upgrade the ZT610 and ZT620 to RFID encoding in the field. Once RFID-enabled, these printers are engineered to accurately and efficiently print and encode labels for today's most advanced item-level tracking applications.

Adaptive encoding enables media flexibility and simple RFID calibration, eliminating complex placement guides. An intuitive menu further reduces setup time. And Zebra's RFID technology is certified on six continents, providing operational visibility and business insight across complex, multinational supply chains.

Get 24/7 reliability, even in the harshest environments

Built to deliver outstanding print quality under the most challenging industrial conditions, ZT600 Series printers virtually eliminate operational downtime due to printer failure. Their durable, all-metal designs hold up against extreme temperatures, dust, debris, moisture and worse. Guided instructions and feedback eliminate common errors and reduce manual adjustments for highly consistent printing. And high-quality print mechanisms and internal components deliver superior print quality and speed across the widest range of applications. A field-installable, full-width, guillotine-style cutter with catch tray is ideal for apparel tag applications.

Reduce RFID Media Costs

Tags are spaced incredibly close together, with a distance (pitch) of 0.6 in./16 mm or narrower on most RFID inlays–smaller than what other printer/encoders can accommodate. By spacing inlays closer, label converters use less material, which reduces your cost per label, requires fewer media roll changes and gives you faster printer/encoder throughput.

The industrial brawn and next-gen brains to meet every challenge head-on.

For more information, please visit www.zebra.com/zt600r

Customize your configuration with flexible connectivity

System setup, integration and updates are a snap with virtually every modern connectivity option. Standard connectivity includes serial, USB, Ethernet, USB host and Bluetooth® with optional parallel, 802.11ax, 802.11ac, applicator port, IPv6 and BTLE capabilities. You also get two open media slots for non-standard connectivity options, design failover connections and provisioning for future protocols

Increase your efficiency with a user-friendly design

Every detail of the ZT600 Series was designed to put time back in your day. Immediately see status at a glance on the 4.3 in. full-color touch display. You can also quickly navigate printer settings with the user friendly icon menu system to change languages, printer settings, connectivity options and more–right from the display. Color-illuminated media and ribbon paths streamline routine maintenance. Adjustable media width and pressure toggles easily accommodate more applications. And onboard sensors, diagnostics and help resources empower you to manage issues without having to call in support.

Specifications

RFID

• Supports tags compatible with: UHF EPC Gen 2 V2.1, ISO/IEC 18000-63 and RAIN RFID protocols
• Integrated RFID system is user-upgradeable in the field and available on both 4 in. and 6 in. models
• Adaptive Encoding Technology automatically selects optimum encode settings
• Supports industry standard, multi-vendor, chip-based serialization
• Supports block permalocking of user memory compatible with ATA Spec 2000
• Allows users to track performance with RFID job-monitoring tools

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 4.0
• 4.3 in. color touch display with intuitive menu for quick operation and settings management

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)
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: 130 in./3302 mm 600 dpi: 30 in./762 mm ZT620: 203 dpi: 150 in./3810 mm 300 dpi: 100 in./2540 mm

Operating Characteristics

Operating Temperatures	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	-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 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

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

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

Media Characteristics

Media Width	ZT610: • 1.00 in./25.4 mm to 4.5 in./114 mm tear/cutter • 1.00 in./25.4 mm to 4.25 in./108 mm peel/rewind ZT620: • 2.00 in./51 mm to 7.0 in./178 mm tear/cutter • 2.00 in./51 mm to 6.75 in./171 mm peel/rewind
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: 2.00 in./51 mm to 4.33 in./110 mm ZT620: 2.00 in./51 mm to 6.85 in./174 mm
Core	1.0 in./25.4 mm I.D.

Options and Accessories

Connectivity	Two open communication slots to add internal cards for: • Dual band 802.11ax Wi-Fi 6 (MIMO) and Bluetooth 5.3 • Dual band 802.11ac Wi-Fi and Bluetooth 4.2 • 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 1 in. I.D. Core media supply hanger Ink-side in ribbon supply spindle
Keyboard Display Unit	ZKDU™ keyboard display units for stand-alone printing applications

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.

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