ZD600 Series Desktop Printers

Invest in the best: premium features, maximum performance and unmatched security for years of quality printing

You need a premium, compact printer that's feature-rich and built to perform flawlessly–day in and day out. Don't compromise. Get it all with Zebra's ZD621 and ZD611 desktop printers, featuring an innovative new architecture to power our ever-expanding printer capabilities and software. They offer unmatched security that's constantly evolving to safeguard your sensitive data and shield you from cyberattacks. Upgrade with connectivity and media-handling options whenever you're ready. The optional full-color LCD touch display with intuitive menu–and increased remote-management capabilities make ZD600 Series printers easy to use. Together, these give you outstanding print performance, years of optimal use, industry-leading reliability and unparalleled intelligence and security.

Your Future Printing Starts Here

Technology for Today, Innovation for Tomorrow

Technology is constantly advancing and so will ZD600 Series printers. They're engineered to power future printing at the highest level with an innovative architecture that can perform more operations simultaneously and evolve with emerging technology. With the latest 802.11ax/Bluetooth® 5.3 option for the ZD600 Series, you can take advantage of your Wi-Fi™ 6/6E network upgrade and get best-in-class WPA3 security, lightning-fast speeds and enhanced roaming.

Enhance Productivity Sustainably With ZeroLiner

With the Zebra ZeroLiner Linerless Printing Solution, you can boost productivity with up to 50% more labels per roll, minimizing downtime from roll changes and eliminating the hassle of peeling backing liners. Embrace sustainability with reduced waste and CO2 emissions, thanks to the elimination of backing liners and reduced material usage. ZD611 and ZD621 linerless models are specifically designed and tested for use with Zebra ZeroLiner labels.

Expect the Best

Premium Printing Performance

Rely on the ZD600 Series to help you power through–day after day. From outstanding print quality to portability for application flexibility to emerging technology to field-installable options, the ZD611 and ZD621 stand apart. Available in direct thermal, thermal transfer, linerless, healthcare and RFID models, the ZD600 Series supports a wide variety of use cases.

Simple to Setup, Easy to Maintain

Operate with Ease, Securely

Backed by Zebra's innovative Zebra DNA™ software suite, ZD600 Series printers are incredibly simple to operate. Deploy them anywhere with setup tools, wizards and emulation capabilities. The intuitive user interface is easy to use with minimal training and allows you to see status at a glance with the five LED icons. Take advantage of robust remote management capabilities that alleviate IT burdens. And, built-in security hardens your infrastructure from cyberattacks.

Premium Features, Small Footprint: Ready for today and tomorrow.

For more information, please visit www.zebra.com/zd600

Load Media Easily

Color-coded touch points and a new media-handling design guide you through speedy media changes to keep your printers operational and your workers on task. Replace ribbon intuitively and quickly with less mess, hassle and training time–and fewer calls into IT.

Engineered for Outstanding Print Quality

Like Zebra's industrial printers, the ZD600 Series thermal transfer printers include a media dancer to ensure maximum quality on every label and tag, regardless of print speed. Further boost print quality with the optional 300 dpi print resolution.

See Printer Status in Color and Change Settings with a Touch

Navigate easy-to-use menus and step-by-step wizards at a touch on the 4.3-in. full-color LCD touch display, standard on select models. See status at a glance in color and troubleshoot with animations on the spot. The printers also feature media-loading and calibration guidance, and support stand-alone printing applications. Zebra touch displays are expertly designed and tested for toughness and reliability consistent with Zebra's printer portfolio, including robust tolerance to temperature, humidity, dust and other environmental challenges.

Hassle-Free Integration

Backwards Compatible with Virtually Any Existing Thermal Printer

Integrate ZD600 Series printers into your existing fleet seamlessly. Continue to use the same label formats and applications you're using today. They support EPL and ZPL printer languages and can emulate other languages associated with other brands using the Zebra DNA Printer Emulations app.

Comprehensive Communication to Connect Your Way

ZD600 Series printers can connect to your existing wired and wireless networks or directly to any PC. Every ZD611 and ZD621 comes standard with Ethernet, USB 2.0 and USB host, or add optional dual wireless radio. Take advantage of your Wi-Fi 6/6E network with the 802.11ax/Bluetooth 5.3 dual radio option or choose 802.11ac/Bluetooth 4.2 dual radio. Print from any Windows®, Android™ or iOS® device, and integrate your devices with Zebra's Printer Setup Utility mobile app using Bluetooth Low Energy (BLE). The included Print Touch tag (NFC) allows you to simply tap to pair and print, as well as instantly access Zebra's extensive knowledge base of how-to videos.

Innovative Features that Work for You

Add Mobility for On-the-spot Printing

Easily transport your ZD600 Series printer on a cart using the battery option. Print where you work to reduce steps and increase accuracy. Power through a full shift with the high-capacity battery. Add even more mobility with the optional carrying case[1] for the ZD621.

Moveable Sensor Means More Flexibility

The ZD600 Series' movable media sensor allows for almost any media use, which means greater flexibility across a variety of use cases.

Zebra DNA for Printers

Confident and Secure Printing, Without the Hassle

The Zebra DNA suite of software, powered by our Link-OS™ operating system, will get your printer up and running quickly and securely. Print consistently and without interruption with a solution that's fully integrated and interoperable, and ready to evolve with your business needs.

Update, Troubleshoot and Monitor, All from a Single Location

With Zebra's Printer Profile Manager Enterprise, part of Zebra DNA, you can easily manage, secure and troubleshoot your networked Zebra DNA printers from one remote location anywhere in the world.

Unmatched Printing Security

Get unparalleled peace-of-mind security and protect yourself from cyberattacks with PrintSecure, part of Zebra DNA. Easily configure your printers with secure connections, identify vulnerabilities, block unauthorized access and more.

Explore Managed Print Services (MPS) with Assurance

Zebra's Thermal Printers with Print DNA Make MPS Easy

Looking to gain control and visibility of your printer fleets with MPS? Our printers are engineered for durability, and they offer innovative remote management, analytics and security capabilities that make them the obvious choice for MPS. With the Zebra DNA tools and applications for printers, your Zebra MPS provider can remotely manage and optimize your printers, track and automate supplies replenishment and ensure security.

Supplies, Service and Support

Zebra Certified Supplies

Printing supplies provide a digital voice for assets across your supply chain. You rely on them to disseminate critical data throughout your organization. If something goes wrong with your printing supplies, operations are interrupted, productivity suffers and costs rise. That's why we design, produce and rigorously pretest our own line of labels, tags and receipt paper to ensure consistent, optimized performance in your Zebra printer. Optional linerless configurations eliminate waste and deliver more labels per roll for fewer roll changes. For industry-leading quality, service and thermal printing expertise, choose Zebra Certified Supplies.

Backed by Zebra's Worldwide Service and Support

Access repair support services anywhere around the globe through Zebra and its trusted network of more than 10,000 partners. Zebra OneCare™ Maintenance Plans provide enhanced coverage that exceeds standard warranty.

Specifications

Standard Features

• Print methods: Thermal Transfer or Direct Thermal
• ZPL and EPL programming languages
• 5 status icon, 3 button user interface
• Ethernet, USB 2.0, USB Host
• Serial (ZD621 only)
• Printer setup mobile app for Android and iOS via BLE (Bluetooth Low Energy 5) connection*
* BLE is intended for use with Zebra printer setup mobile app only
• Real Time Clock (RTC)
• Media dancer for excellent print quality (excludes ZD611 direct thermal model)
• OpenACCESS™ for easy media loading
• Dual-wall frame construction
• ENERGY STAR® certified
• ZebraDesigner Essentials–easy label design tool free at www.zebra.com/zebradesigner

Physical Characteristics

Dimensions	ZD611 Direct Thermal: 8.6 in. L x 4.5 in. W x 6.0 in. H 220 mm L x 115 mm W x 151 mm H ZD611 Thermal Transfer: 9.56 in. L x 5.46 in. W x 6.66 in. H 242.9 mm L x 138.7 mm W x 169.2 mm H ZD621 Direct Thermal: 8.7 in. L x 7.0 in. W x 5.9 in. H 221 mm L x 177 mm W x 151 mm H ZD621 Thermal Transfer: 10.5 in. L x 8.0 in. W x 7.5 in. H 267 mm L x 202 mm W x 192 mm H
Weight	ZD611 Direct Thermal: 2.36 lb./1.07 kg ZD611 Thermal Transfer: 3.59 lb./1.629 kg ZD621 Direct Thermal: 3.6 lb./1.6 kg ZD621 Thermal Transfer: 5.5 lb./2.5 kg

Printer Specifications

Operating System	Link-OS
Resolution	203 dpi/8 dots per mm 300 dpi/12 dots per mm (optional)
Memory	512 MB Flash; 256 MB SDRAM
Maximum Print Width	ZD611: 2.2 in./56 mm for 203 dpi 2.13 in./54 mm for 300 dpi ZD621: 4.09 in./104 mm for 203 dpi 4.27 in./108 mm for 300 dpi
Maximum Print Speed	8 in./203 mm per second (203 dpi) 6 in./152 mm per second (300 dpi)
Media Sensors	Full width, moveable reflective/black mark sensor; multi-position transmissive/gap sensor
Programming Languages	ZPL II; EPL 2; XML; ZBI; PDF Direct

Media and Ribbon Characteristics

Label Length	Minimum: 0.25 in./6.35 mm Maximum: 39.0 in./991 mm
Media Width	ZD611: 0.585 in./15 mm to 2.36 in./60 mm ZD621 Direct Thermal: 0.585 in./15 mm to 4.25 in./108 mm ZD621 Thermal Transfer: 0.585 in./15 mm to 4.65 in./118 mm
Media Roll Size	Maximum outer diameter: 5.00 in./127 mm Core inner diameter: 0.5 in./12.7 mm and 1.0

Options and Accessories

Healthcare	Our healthcare models include white color scheme, healthcare-compliant power supply, disinfectant-ready, easy-to-clean plastics, sealed button interface and UV-resistant housing
RFID	Available in RFID, supports UHF EPC Gen 2 V2.1 and RAIN RFID protocols, uses Adaptive Encoding Technology and Zebra's RE40 RFID Reader/Encoder
Linerless	For use with Zebra ZeroLiner labels; direct thermal only; cutter or tear
User Interface	4.3 in. full color touch LCD (standard on healthcare models and ZD611 RFID and thermal transfer models)
Media Handling	Dispenser/Peeler: label peel and present with label present sensor (factory installed or field installable) Cutter (factory or field installable)
Communications	Factory installed: dual radio Wi-Fi 6 (802.11ax) and Bluetooth 5.3 (MIMO) Field installable: dual radio Wi-Fi 6 (802.11ax) and Bluetooth 5.3 (SISO) Factory installed or field installable: dual radio Wi-Fi 5 (802.11ac) and Bluetooth 4.2 Field installable Serial RS-232 auto-sensing (ZD611 only, standard on ZD621)
Battery	Provides power to the printer to support a full shift of printing at maximum print speed; supports all media handling options
Carrying Case[1]	Carrying case with shoulder strap and handles makes it easy to bring your desktop printer and battery to the point of application
Keyboard Display Unit	ZKDU keyboard display unit for stand-alone printing solution
Mounting Adapter Bracket	Enable printer to be mounted in same location as LP/TLP2824 Plus printer
Media Locking Cabinet	Mechanical lock with 2 keys; Kensington® lock slot; available on ZD621 healthcare direct thermal model only
Enclosed Power Supply	Attached power supply accessory for cord-free installation of the ZD621 only

Fonts/Graphics/Symbologies

Barcode Ratios	2:1 and 3:1
1D Barcodes	Code 11, Code 39, Code 93, Code 128, 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 and Planet Code
2D Barcodes	Codablock, PDF417, Code 49, DataMatrix, MaxiCode, QR Code, MicroPDF, Aztec
Fonts and Graphics	16 resident expandable ZPL II bitmap fonts, two resident scalable ZPL fonts, five resident expandable EPL2 fonts, native open-type font support, Unicode compliant. China units include SimSun simplified Chinese font 64 MB user available non-volatile memory, 8 MB user available SDRAM

Markets and Applications

Retail

• Shelf label
• Price markdown
• Pharmacy label
• Information label
• Food safety label
• Receipts
• Deli label

Hospitality

• Auto service reminder
• Ticketing
• Event wristbands
• Kiosks

Healthcare

• Specimen collection
• Prescription labeling
• Lab management
• Patient ID wristband
• Assets labels
• Patient records

Government

• Document Tracking
• Evidence tracking
• Agency label
• Product label

Media and Ribbon Characteristics

	in./25.4 mm standard, 1.5 in./38.1 mm, 2.0 in./50.8 mm and 3.0 in./76.2 mm using optional adapters
Media Thickness	ZD611: 0.024 in./0.06 mm min.; 0.0075 in./0.1905 mm max. (tear-off mode only) ZD621: 0.003 in./0.08 mm min.; 0.0075 in./0.19 mm max. (tear-off mode only)
Media Types	Roll-fed or fan-fold, die cut or continuous with or without black mark, tag stock, continuous receipt paper, wristbands, and linerless* * For use only with linerless printer model
Ribbon Outside Diameter	ZD611: 1.34 in./34 mm (74 m) ZD621: 2.6 in./66 mm (300 m); 1.34 in./34 mm (74 m)
Ribbon Standard Length	ZD611: 243 ft./74m ZD621: 984 ft./300 m; 243 ft./74m
Ribbon Ratio	1:4 ribbon to media (300 m) 1:1 ribbon to media (74 m)
Ribbon Width	ZD611: 1.3 in./33 mm to 2.24 in./58 mm ZD621: 1.33 in./33.8 mm to 4.3 in./109.2 mm
Ribbon Core I.D.	1 in./25.4 mm (300 m) 0.5 in./12.7 mm (74 m)

Operating Characteristics

Operating Temperature	40° to 105° F/4.4° to 41 °C
Storage Temperature	-40° to 140° F/-40° to 60 °C
Operating Humidity	10% to 90% non-condensing
Storage Humidity	5% to 95% non-condensing
Electrical	Auto-detectable (PFC Compliant) 100-240VAC, 50-60Hz; ENERGY STAR certified; Energy Efficiency Level VI certified; optional 2750 mAh battery; Healthcare models include IEC60601-1 certified power supply

Printers Supplies

For industry-leading quality, service and thermal printing expertise, choose Zebra Certified Supplies to ensure consistent, optimized performance for your Zebra printer.

Regulatory

IEC 60950-1, IEC 62368-1, EN55022 Class B, EN55024, EN55035, EN61000-3-2, EN61000-3-3, FCC Class B, ICES-003, FCC 15.209; 15.247(d), IC RSS 247, EN 300 328, EN 301 893, EN 62311, cTUVus CE Marking, VCCI, C-Tick, S-Mark, CCC, CU, BSMI, KCC, SABS, IN-Metro, BIS, NOM

Environmental Compliance

Environment
• RoHS Directive 2011/65/EU; Amendment 2015/863
• REACH SVHC 1907/2006For a complete list of product and materials compliance, please visit:
www.zebra.com/environment

Zebra DNA for Printers

Durable printers are essential, but it's the software inside that will keep them in action. Zebra DNA tools and applications for printers give you the ability to optimize printer performance over the entire lifecycle, even as your business needs evolve. For more information, please visit
www.zebra.com/zebradna

Included In The Box

Printer, empty ribbon take-up cores*, 300 m ribbon core adapters for non-Zebra ribbon (2)*, AC power supply, power cord(s), USB cable, Quick Start Guide, Regulatory Guide*Empty ribbon take-up cores and ribbon core adapters included with thermal transfer models only, ZD621 includes 1 in. and 0.5 in. cores, ZD611 includes 0.5 core only

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.

Product Warranty

ZD600 Series printers are warranted against defects in workmanship and materials for a minimum period of 2 (two) years from the date of shipment. Warranty varies by region. For complete warranty details, please visit www.zebra.com/warranty

Footnotes

1. For ZD621 only. Does not fit when cutter or peeler attached.

The Zebra wordmark and logo are trademarks of Zebra Technologies Corp., registered in many jurisdictions worldwide. Android is a trademark of Google LLC. All other trademarks are the property of their respective owners. ©2026 Zebra Technologies Corp. and/or its affiliates. 01/23/2025 HTML