The new ZT610 Micro Label Printer: Built for the sharpest details

The new ZT610 600 dpi Micro Label Printer builds on the proven ZT6 platform with upgraded capabilities designed specifically to meet today's growing demand for high-registration micro labeling in electronics, solar, and pharmaceutical production.

Why the ZT610 Micro Label Printer is a step ahead

Engineered for next-generation micro labeling

- Additional sensors and Precision Printing Mode improve registration consistency
- New media guide and media holder ensure maximum accuracy for even the narrowest rolls
- Enhanced peel mechanics for automated labeling applications and enhanced rewind option for batch printing micro labels

Supports today's smallest formats

- Supports micro labels as small as **3 mm**
- Peel mode handles labels as short as **6 mm**
- Works with media as narrow as **12 mm**

Ready for automated print-and-apply

- Extended tear bar improves label presentation to applicators
- Micro-label-ready peel plate
- Built to integrate into modern automated labeling systems

Part of the trusted ZT6 Series platform

- Same rugged metal construction for 24/7 industrial use
- Maintains field-upgradable design for long-term flexibility
- Full connectivity options, including Wi-Fi 6™ and Applicator Interface

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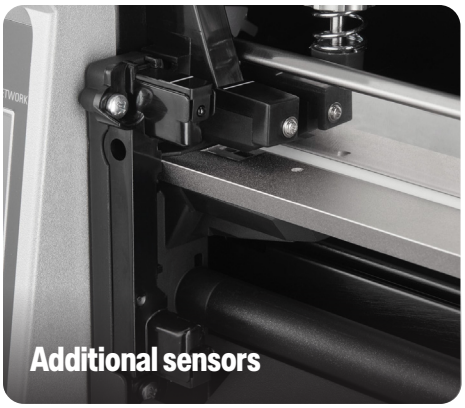
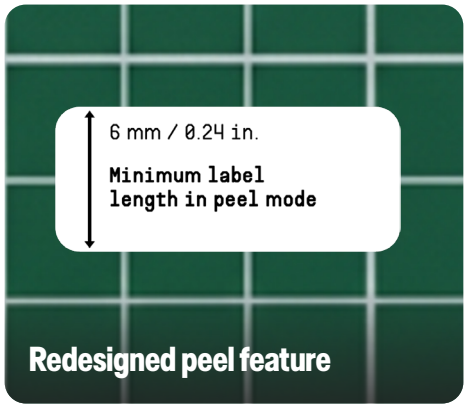
The ZT610 600 dpi Micro Label Printer: A refinement of the proven ZT6 platform


Additional sensors

New media holder

New media guides

Extended tear bar



Redesigned peel feature

Precision Printing Mode screen

Feature Comparison: Standard ZT610 600 dpi vs. ZT610 Micro Label Printer

	STANDARD ZT610 600 DPI	ZT610 600 DPI MICRO LABEL PRINTER
Media characteristics and precision		
Media width support	0.79 in. - 4.5 in (20 mm - 114 mm)	0.47 in. - 4.5 in. (12 mm - 114 mm)
Media holder	None	New media holder optimized for very narrow rolls
Media guide	Standard	New media guide adds stability for 12 mm wide media
Rewind/pinch system	Standard	New rewind pinch roller for smooth micro-label handling
Print performance and registration		
Registration accuracy	High print quality for general applications	Up to 50% more precise registration for micro labeling
Print resolution	600 dpi	600 dpi
Precision Printing Mode	None	Enabled
Automation readiness		
Minimum peel length	12 mm	6mm
Tear bar	Standard	Extended tear bar
Micro-label automation	Not optimized for tiny labels	Built for 3–6 mm labels
Physical design and media path		
Construction	All-metal, industrial grade	All-metal, industrial grade
Dimensions	19.9 in. L x 10.6 in. W x 15.6 in. H 505 mm L x 268 mm W x 396 mm H	19.9 in. L x 10.6 in. W x 15.6 in. H 505 mm L x 268 mm W x 396 mm H
Internal	Standard ZT610 path	New rewind & peel plate, enhanced path for narrow media
RFID capability	Factory- or field-upgradable	None
Sensors and firmware		
Media sensing	Dual media sensors, transmissive and reflective	Dual media sensors, transmissive and reflective, fused upper and lower sensors
Registration control	Standard	Advanced sensing + firmware for precise micro-label alignment
Printhead diagnostics	Printhead element out detection	Printhead element out detection

Feature Comparison: Standard ZT610 600 DPI vs. ZT610 Micro Label Printer

	STANDARD ZT610 600 DPI	ZT610 600 DPI MICRO LABEL PRINTER
Connectivity and manageability		
Standard connectivity	Ethernet, USB, dual USB Host, Serial, Bluetooth	Ethernet, USB, dual USB Host, Serial, Bluetooth
Optional connectivity	Wi-Fi 6 (802.11ax), Parallel, Applicator Interface	Wi-Fi 6 (802.11ax), Parallel, Applicator Interface
Remote management	Link-OS, Zebra DNA tools	Link-OS, Zebra DNA tools
Display	4.3” full-color touch display	4.3” full-color touch display
Use case alignment		
Best for	High-resolution industrial label printing on a wide range of media sizes	High-resolution micro-labeling, narrow media, print-and-apply automation
Ideal markets	General manufacturing, logistics, standard labeling	Electronics, solar, pharmaceutical manufacturing

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