

JD240TR 4-inch UHF RFID Label Printing Solution

From High-Precision Barcode to On-Metal RFID Thickness, with Small Form-Factor, Versatile Media Compatibility, Software & Tool Offered

300dpi /600dpi
Resolution for
Small Size and
High-Density

UHF RFID
Encoder &
Antenna for On-
metal Thickness

EPC Gen-2
/ISO18000-6C
Protocol
Compatible

Thermal Transfer
Printing Fit for
Multi-types
Supplies

Design
Software &
Tool Suite
Offered

Use Applications

Retail

- In-store exception tag printing
- Apparel and merchandise tracking
- Jewelry / luxury In-store labeling
- Retail pharmacy bag manufacturing

Manufacturing / Industrial

- Work-in-process tracking
- Parts and asset labeling
- On-metal Asset Management

Government

- Document tracking
- Evidence tracking
- Asset Management

Hospitality

- RFID wristbands
- Ticketing

Food & Beverage

- Expiration date tracking
- Food safety recall

Healthcare

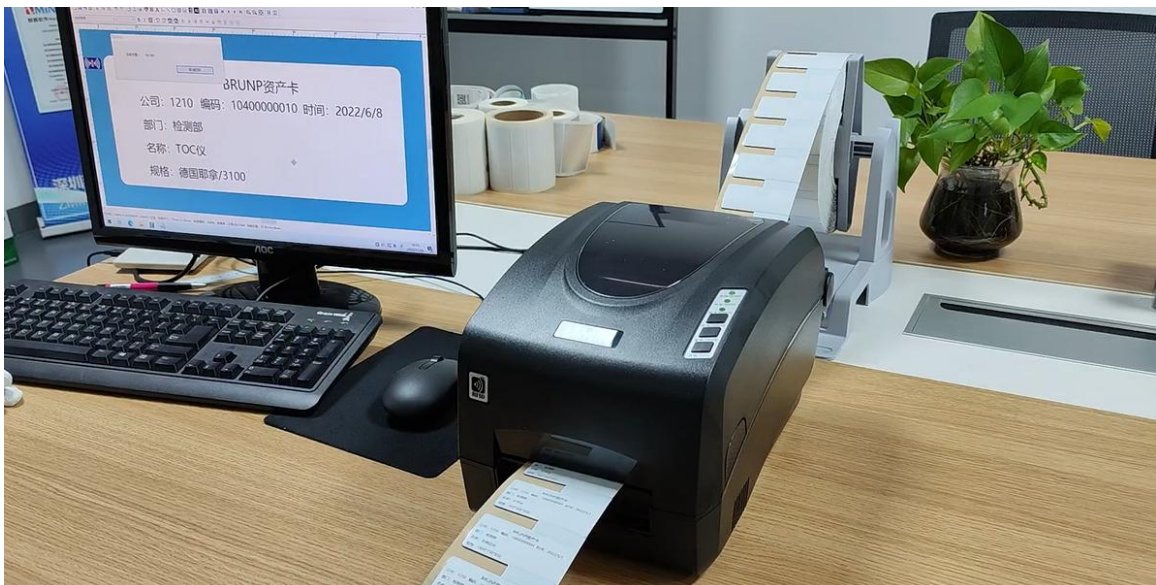
- Sample and laboratory specimen tracking
- Patient identification
- Hospital pharmacy
- Asset tracking

Product Overview

The JD240TR series UHF RFID Label Printer combines high-performance encoding and flexible printing capability into a compact and easy-to-deploy platform.

Designed to support diverse labeling requirements with RFID & Label Design Software offered to use, RFID Configuration & Calibration Tool to simplify RFID setup and fine-tune encoding performance, and Development Tool for Integration to enable customization and integration with enterprise applications.

It enables reliable UHF RFID deployment across retail, manufacturing, healthcare, and asset tracking environments from chain store to manufacturing asset management.



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One Platform for All RFID Labeling Scenarios

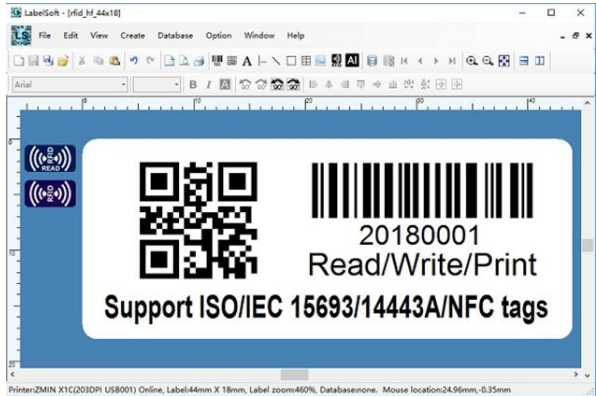
Support 203 / 300 / 600 dpi in a single desktop printer, the JD240TR enable high-volume tagging, standard labeling, and high-precision applications without changing hardware, reduce SKU complexity and adapt to different use cases over time.

Enable RFID in High-Density and Space-Constrained Applications

The 600 dpi printing ensures clear, scannable output on small or data-dense labels, which expand RFID deployment into applications such as healthcare UDI, electronics, and small asset tagging, not only maintain readability in small-label environments, support high-density 2D codes and micro text, but also meet compliance requirements.

Simplify RFID Deployment with One-Step Print and Encode

Integrated RFID encoding and printing ensures data is written and printed in a single process, largely improve data accuracy and eliminate mismatches between label content and RFID chip data, helps reduce manual operations improve tagging consistency and increase operational efficiency.



Support 1.5mm Thick and Specialty RFID Media for Industrial Applications

Designed to handle a wider range of label constructions, including thicker RFID tags, enable desktop printing for on-metal and rugged RFID labels that typically require industrial printer, which extend RFID into MRO, asset tracking, and metal environments, reduce reliance on larger industrial devices and increase flexibility in tag sourcing.

UHF RFID-ready for smart labeling applications

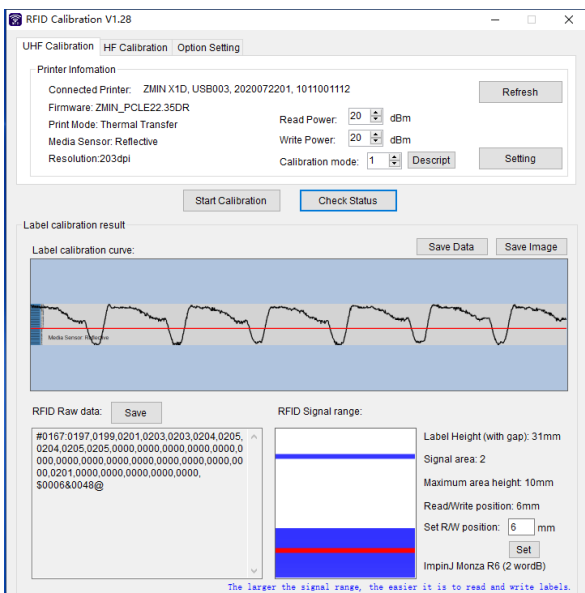
Built to support UHF RFID labels and compliant with EPC Class 1 Gen2 (ISO18000-6C), the JD240TR is well suited for RFID-enabled identification, tracking, and compliance workflows. It operates in the 860–928 MHz range to support common UHF RFID deployment requirements.

RFID and Label Design software for Free

Self-developed label editing, reading, writing, printing software: LabelSoft, has Windows and Linux version, supports use printers without drivers.

RFID Config / Calibration Tool and development tool



Provide Graphical RFID calibration tool, intuitively display the range of label positioning waveform and RFID signal, one-key calibration, very convenient. A variety of development packages, easy and convenient to use; support VC, C#, Java, HTML5 and other mainstream programming languages



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Specification

Model	JD240TR-2U	JD240TR-3U	JD240TR-6U
Printer Image			
Printing method	Direct thermal & Thermal transfer		
Resolution	203 DPI (8dots/mm)	300 DPI(11.8dots/mm)	600 DPI(24dots/mm)
Max. print speed	8 IPS(203.2mm/s)	6 IPS(152.4mm/s)	2 IPS(50.8mm/s)
Max. print width	4.25"(108mm)	4.15" (105.6mm)	4.15" (105.6mm)
Max. print length	157.5"(4000mm)	78.7"(2000mm)	78.7"(2000mm)
Memory	8 MB Flash ROM, 16 MB SDRAM		
Media	Roll-feed, die-cut, continuous, fan-fold, tags, tickets in plain paper or thermal paper Width: 4.6"(118mm) max.,0.8"(20mm)min. Supply roll: OD 5"(127mm) max., ID 1"(25.4mm) min. Thickness: 0.06~1.5mm(0.002"~0.06"), including liner, support flexible on-metal tag.		
Ribbon	Wax, Wax/Resin, Resin Ribbon roll: OD 2.75"(70mm) max. with ID 1"(25.4mm) core or ID 0.5"(12.7mm) core Max width: 110mm; Max length: 300M		
Media sensor	Adjustable reflective & Transmissive		
RFID function	Integrated high performance RFID reader/encoder supports tags compatible with UHF EPC Gen 2/ISO 18000-6C.		
Bar Code Types	1D Barcode: Code 39, Code 93, Code 128, Codabar, EAN-8/13/128, Interleave 2 of 5, UCC-128, UPC A/E 2 and 5 add-on, etc. 2D Barcode: Data Matrix, MaxiCode, PDF417,QR, etc.		
Interfaces	RS-232, USB, Ethernet		
Power rating	24 VDC, 2.0 A		24 VDC, 4.0 A
Weight	2.85KGS		2.95KGS
Dimensions	W208 x D310 x H195 mm		
Operation environment	Temperature: 32° F ~ +104° F (0° C ~ 40° C) Relative humidity: 5% - 85% noncondensing		
Storage environment	Temperature: -40° F ~ +140° F (-40° C ~ 60° C) Relative humidity: 5% - 85% noncondensing		
Options	External label bracket, Peeler, Bluetooth module(BLE)		
Software & Tools	LabelSoft Designer – Windows and Linux supports use printers without drivers RFID calibration tool – One-key calibration and Graphical Display Development Package - support VC, C#, Java, HTML5 and other programming languages		

