

## JD240THR 4-inch HF RFID Label Printing Solution From Anti-counterfeiting & Authentication to Controlled Short-Range NFC (smartphone) compatibility, with Software & Tool Offered

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

HF RFID  
Authentication /  
Re-tagging for  
Multi-application

ISO/IEC  
15693/14443A/  
NFC protocol  
Compatible

Thermal Transfer  
Printing Fit for  
Multi-types  
Supplies

Design  
Software &  
Tool Suite  
Offered

### Use Applications

#### Authenticity Re-Labeling / Replacement Tagging

- Luxury goods and premium retail (bags, watches, jewelry, apparel, electronics and high-value devices)
- Pharmaceutical products
- Certified or serialized goods

#### Library & Document Tracking

- Library book tagging
- Archive management
- Document tracking systems

#### Temporary Visiting & Access Control

- Company visitor access badges
- Facility ID / eID badges
- Campus and student badges
- Data center access credentials

#### Wristband & Healthcare Labeling

- Patient wristbands
- Event and access wristbands

#### Serialization and NFC Secure Encoding

- Smart packaging and marketing tags
- URL / digital identity encoding
- Consumer engagement applications

### Product Overview

The JD240THR series HF RFID printing solution is designed to enable secure identification, authentication, and NFC-based applications through a fully integrated hardware and software platform. It focuses on controlled interaction, secure data encoding, and item-level personalization, making it ideal for scenarios where accuracy, security, and user engagement are critical, such as access control, visiting issuance, healthcare labeling, ticketing, and high-value product authentication.

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.



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### One Platform for All RFID Labeling Scenarios

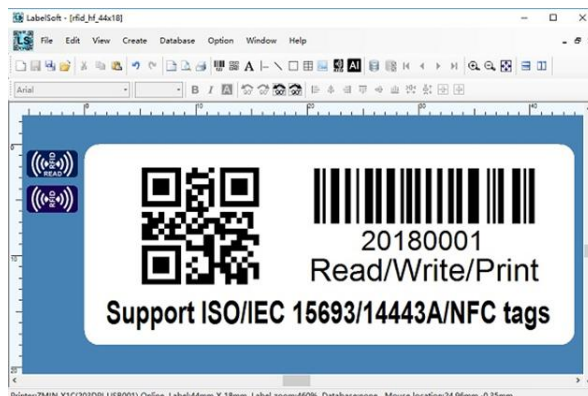
Support 203 / 300 / 600 dpi in a single desktop printer, the JD240THR enable high-volume tagging, standard labeling, and high-precision applications without changing hardware, reduce SKU complexity and adapt to different use cases over time.

### 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.

### Drive Authentication and Anti-Counterfeiting for High-Value Products

Integrated HF RFID encoding and printing ensures secure product identification and NFC-based verification, typical applies for applications requires encode unique item identity and authentication data, support “tap-to-verify” via smartphones and enable re-tagging for lost, damaged, or missing labels.



### HF RFID-ready for Secure Identification and Controlled Interactions

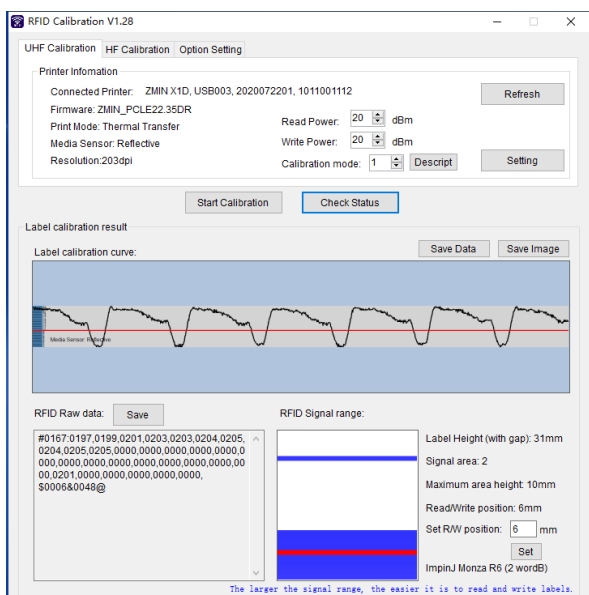
Built to support ISO/IEC 15693/14443A/NFC protocol, the JD240THR is well suited for HF RFID-enabled secure identification and controlled interaction requiring intentional, short-range, and secure interaction, which could prevent accidental reads with tap-based operation, support secure chip technologies (e.g. encrypted HF / NFC chips) Ideal for ID, payment, ticketing, and access control.

### RFID and Label Design software for Free

Self-developed label editing, reading, writing, printing software - LabelSoft with 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	JD240THR-2U	JD240THR-3U	JD240THR-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: 0.06~1.0mm(0.002"~0.04"), including liner		
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	Support ISO/IEC 15693/14443A/NFC protocol, can write ASCII code, hexadecimal, NDEF format text or URL address, support tag encryption and locking.		
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		

