

JT240THR 4-inch HF RFID Label Printing

From High Volume, High-Precision Barcode to Anti-counterfeiting / Authentication and Controlled Short-Range NFC (smartphone) compatibility, 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
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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

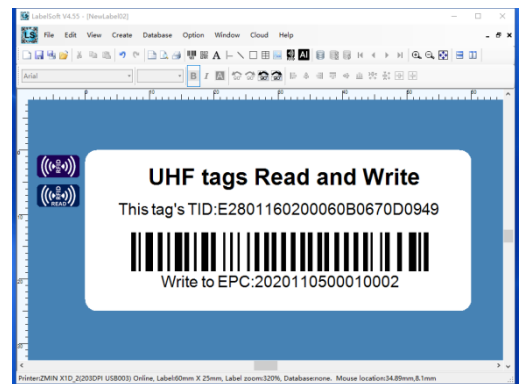
Product Overview

The JT240THR series HF RFID industrial printing solution is designed to deliver continuous, high-volume RFID labeling and encoding for 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.

While maintaining the same flexible printing and software capabilities as the desktop platform, the industrial model is engineered to support non-stop operation, higher throughput, and long-term reliability, making it ideal for mission-critical workflows where performance and consistency are essential.



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One Platform for All HF RFID Labeling Scenarios

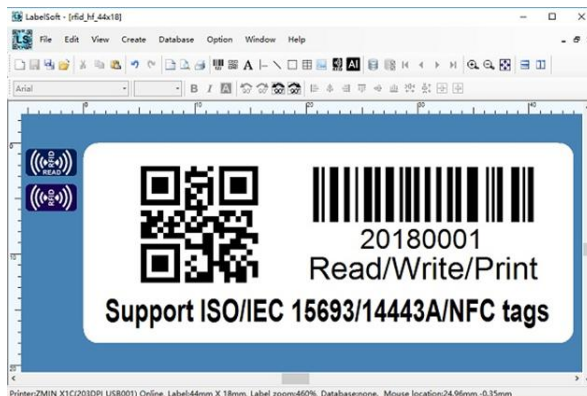
Support 203 / 300 / 600 dpi in a single desktop printer, the JT240THR industrial printing enable high-volume tagging, HF labeling, and high-precision applications without changing hardware, reduce SKU complexity and adapt to different use cases over time.

Enable HF 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

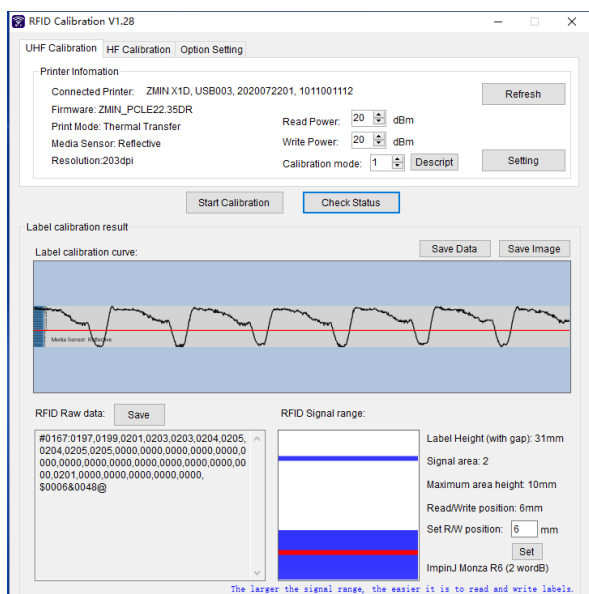
Built to support ISO/IEC 15693/14443A/NFC protocol, the JT240THR is well suited for HF RFID-enabled secure identification and controlled interaction requiring intentional, short-range, and secure interaction, which could prevent accidental reads with tap-based operation, support secure chip technologies (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	JT240THR-F2	JT240THR-F3	JT240THR-F6
Printing method	HF RFID, 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)	8 IPS(203.2mm/s)	3 IPS(76.2mm/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	32 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	High Frequency: Support ISO/IEC 15693/14443A/NFC/Ultra-Light protocol, support write ASCII, 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.		
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.		
Interfaces	USB, Ethernet		
Input Key	Five Input Key		
LED	Three LED indicator lights		
Display	4.3"IPS touch screen (480X800)		
Power Supply	85 ~ 264 VAC, 47 ~ 63Hz, 150W		
Weight	12.5 KGS		
Dimensions	W299 x D410 x H270 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	Peeler.		
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		

