JNXTECH

# JT240TR 4-inch UHF RFID Label Printing Solution

**From High Volume, High-Precision Barcode to On-Metal RFID Thickness, with Versatile Media Compatibility, Software & Tool Offered**

Industrial UHF RFID Printing Solution

- 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

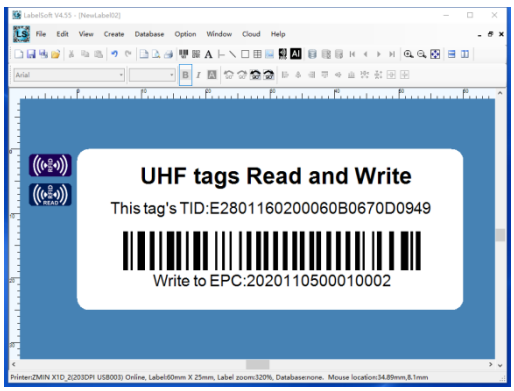
## Product Overview

The JT240TR series industrial UHF RFID printer is designed to deliver continuous, high-volume RFID labeling and encoding in demanding operational environments.

Built on a robust print engine and optimized for extended duty cycles, it enables organizations to scale RFID deployment from pilot applications to production-level operations across manufacturing, logistics, and distribution environments.

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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## From High Volume, High-Precision Barcode to On-Metal RFID Thickness, with Versatile Media Compatibility, Software & Tool Offered

### One Platform for All RFID Labeling Scenarios

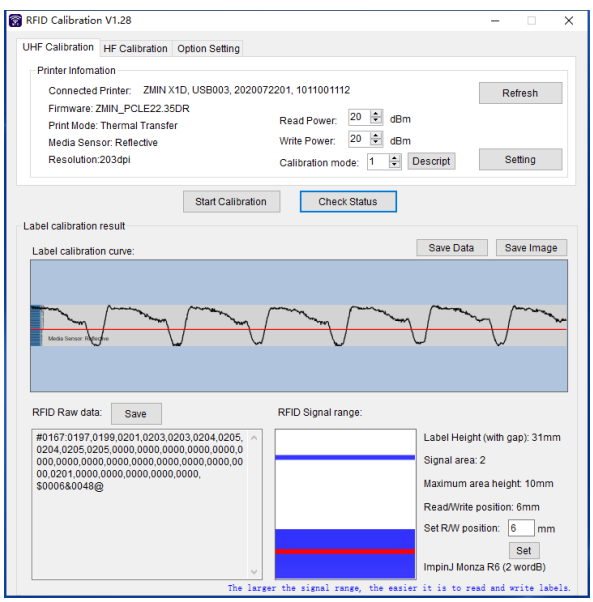
Support 203 / 300 / 600 dpi in a single desktop printer, the JT240TR industrial printer enable high-volume tagging, RFID labeling, and high-precision applications without changing hardware, reduce SKU complexity and adapt to different use cases over time.

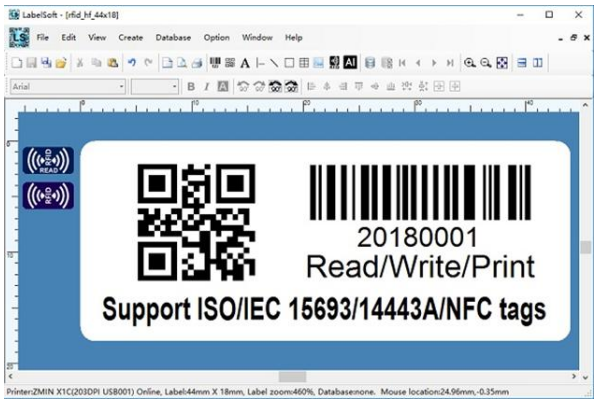
### Enable RFID in High-Density and Space-Constrained Applications

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 JT240TR series 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, haves 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 | JT240TR-F2 | JT240TR-F3 | JT240TR-F6 |
|---|---|---|---|
| **Printing method** | UHF 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<br>Width：4.6"（118mm） max.,0.8"（20mm）min.<br>Supply roll: OD 5"(127mm) max., ID 1"(25.4mm) min.<br>Thickness: 0.06～1.5mm(0.002"～0.06"), including liner，support flexible on-metal tag. | | |
| **Ribbon** | Wax, Wax/Resin, Resin<br>Ribbon roll: OD 2.75"(70mm) max. with ID 1"(25.4mm) core or ID 0.5"(12.7mm) core<br>Max width: 110mm; Max length: 300M | | |
| **Media sensor** | Adjustable reflective & Transmissive | | |
| **RFID function(option)** | UHF: High performance RFID reader/encoder, supports various labels compatible with EPC Gen 2/ISO 18000-6C.<br>or<br>HF: Support ISO/IEC 15693/14443A/NFC/UltraLight 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.<br>2D Barcode : Data Matrix, MaxiCode, PDF417,QR, etc. | | |
| **Media** | Roll-feed, die-cut, continuous, fan-fold, tags, tickets in plain paper or thermal paper<br>Width: 4.6" (118mm) max., 0.8" (20mm) min.<br>Supply roll: OD 5"(127mm) max., ID 1"(25.4mm) min.<br>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)<br>Relative humidity: 5% - 85% noncondensing | | |
| **Storage environment** | Temperature: -40° F～+140° F (-40° C～60° C)<br>Relative humidity: 5% - 85% noncondensing | | |
| **Options** | Peeler. | | |
| Software & Tools | LabelSoft Designer – Windows and Linux supports use printers without drivers<br>RFID calibration tool – One-key calibration and Graphical Display<br>Development Package - support VC, C#, Java, HTML5 and other programming languages | | |

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