

# T430R 4-inch UHF RFID Label Printer

## Small Form-factor, Easy to Deploy and Budget Effective

**300dpi Option  
Resolution for  
Small Fonts and  
High-Density**

**Thermal  
Transfer Printing  
Fit for Multi-  
types Supplies**

**UHF RFID  
Encoder &  
Antenna Support  
On-metal**

**128MB & 256MB  
Enough Memory  
for Multi-files and  
Fonts Packages**

**Compatible  
with  
Bartender  
Driver**

### Use Applications

#### Retail

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

#### Manufacturing / Industrial

- Work-in-process tracking
- Carton / pallet load tracking
- Parts and asset labeling

#### Government

- Document tracking
- Evidence tracking

#### 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 T430R UHF RFID Label Printer is designed to deliver reliable RFID label printing with precise media positioning, flexible media support, and easy day-to-day operation. Its dual-sensor design helps improve print accuracy, while automatic 203 dpi / 300 dpi recognition simplifies setup.

With a modular printhead, generous memory, broad media compatibility, and built-in encoder support for UHF RFID labels, the T430R offers a practical and durable solution for smart labeling applications in retail, logistics, manufacturing, healthcare, and compliance-driven environments.



# T430R 4-inch UHF RFID Label Printer

## Small Form-factor, Easy to Deploy and Budget Effective

### Accurate positioning for reliable RFID label printing

The T430R features a unique dual front-and-rear sensor design that helps ensure precise media positioning and stable label handling. This improves print accuracy and supports efficient RFID label production across a wide range of applications.

### Support 203 dpi and 300 dpi printhead automatic recognition

The printer automatically recognizes 203 dpi and 300 dpi printhead resolution, reducing setup complexity and eliminating the need for manual PC-side configuration. This makes deployment easier and helps users switch between resolution options more efficiently.

### Modular printhead design for easy maintenance

Its modular printhead structure is designed for easy removal and installation, helping simplify maintenance and reduce service downtime. This makes routine replacement and servicing more convenient for operators and technical teams.

### Broad media compatibility for flexible application needs

The T430R supports a wide variety of media types, including die-cut, fanfold, notch, roll, black mark labels, and receipt media. It also supports media widths from 25.4 mm to 120 mm, making it suitable for broad labeling requirements across different industries.



### Large memory capacity for demanding label tasks

With a 32-bit RISC CPU, 128 MB RAM, and 256 MB Flash memory, the T430R offers ample processing and storage capacity for label formats, fonts, graphics, and RFID printing tasks. This supports smoother operation in day-to-day industrial and commercial use.

### UHF RFID-ready for smart labeling applications

Built to support UHF RFID labels and compliant with EPC Class 1 Gen2 (ISO18000-6C), the T430R 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.

### Flexible connectivity for integration into existing systems

Standard interfaces include USB-B, USB Host, and Ethernet, with optional Bluetooth 4.0 / BLE and Wi-Fi, giving users flexible options for standalone use or integration into existing workflows and network environments.

### Easy label design Compatible with BarTender software

The printer comes with BarTender Ultralite label design software, allowing users to create and edit labels more easily without needing complex development resources. This helps speed up setup and day-to-day label creation.

 **BarTender** 2016  
BY SEAGULL SCIENTIFIC



# T430R 4-inch UHF RFID Label Printer

Small Form-factor, Easy to Deploy and Budget Effective

## Specification

### Printing

|                         |  |
|-------------------------|--|
| <b>Print Method</b>     | Thermal Transfer   |
| <b>Resolution</b>       | 203 dpi (8 dots/mm),<br>300 dpi (12 dots/mm)                       |
| <b>Print Speed</b>      | 200 mm/s (203 dpi),<br>150 mm/s (300 dpi) (non-RFID encoding area) |
| <b>Max Print Width</b>  | 108 mm (203 dpi),<br>106 mm (300 dpi)                              |
| <b>Max Print Length</b> | 2886 mm (203 dpi),<br>2524 mm (300 dpi)                            |

### Processing and Storage

|                     |                 |
|---------------------|-----------------|
| <b>Processor</b>    | 32-bit RISC CPU |
| <b>Memory (RAM)</b> | 128 MB          |
| <b>Flash Memory</b> | 256 MB          |

### RFID & Sensor

|                      |   |
|----------------------|---|
| <b>Sensors</b>       | RF tag detection, paper out detection, gap, notch, black mark detection |
| <b>RFID</b>          | UHF RFID, 860–928 MHz   |
| <b>RFID Standard</b> | EPC Class 1 Gen2 (ISO18000-6C)  |

### Media (Labels) & Ribbon

|                         |  |
|-------------------------|--|
| <b>Media Type</b>       | Die-cut, fanfold, notch, roll type, black mark labels or receipt |
| <b>Media Width</b>      | 25.4 mm – 120 mm   |
| <b>Media Length</b>     | 20 mm – 250 mm   |
| <b>Media Thickness</b>  | 60 μm – 250 μm   |
| <b>Roll Diameter</b>    | Max 127 mm   |
| <b>Core Size</b>        | 12.7 mm / 25.4 mm / 38 mm  |
| <b>Ribbon Type</b>      | Wax, Wax/Resin, Resin  |
| <b>Ribbon Width</b>     | 30 mm – 110 mm   |
| <b>Ribbon Length</b>    | Max 300 m  |
| <b>Ribbon Core Size</b> | 25.4 mm  |

### Programming & Driver

|                       |                            |
|-----------------------|----------------------------|
| <b>Programming</b>    | ZPL, DPL, EPL, TSPL        |
| <b>Driver Support</b> | Windows 7 and later, Linux |

### Fonts & Language Support

|                                    |  |
|------------------------------------|--|
| <b>Bitmap Fonts</b>                | 6, 8, 12, 16, 32, OCR A, OCR B   |
| <b>Font Rotation</b>               | 0° , 90° , 180° , 270°   |
| <b>Font Scaling</b>                | Horizontal & Vertical scaling up to 10×  |
| <b>Vector Fonts</b>                | Monotype CG Triumvirate™ scalable fonts, Simplified Chinese font   |
| <b>Character Sets / Code Pages</b> | DOS437,720,737,755,775,850,852,855,856,857,858,860,862,863,864,865,866, Windows 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, ISO8859-1, -2, -3, -4, -5, -6, -8, -9, -15 |

### Barcodes

|                    |   |
|--------------------|---|
| <b>1D Barcodes</b> | Code 39, Code 93, Code 128UCC, Code 128 subset A, B, C, Codabar, Interleave 2 of 5, EAN-8, EAN-13, EAN-128, UPC-A, UPC-E, EAN and UPC 2 (5) digits add-on, MSI, PLESSEY, POSTNET, RSS-Stacked, GS1 DataBar, Code 11 |
| <b>2D Barcodes</b> | PDF417, Maxicode, DataMatrix, QR Code, Aztec  |

### User Interface and Connectivity

|                            |                                  |
|----------------------------|----------------------------------|
| <b>Indicators</b>          | Dual-colour LED (Status / Error) |
| <b>Buttons</b>             | Feed button                      |
| <b>Standard Interfaces</b> | USB-B, USB Host, Ethernet        |
| <b>Optional Interfaces</b> | Bluetooth 4.0 / BLE, Wi-Fi       |

### Power and Environments

|                              |  |
|------------------------------|--|
| <b>Input</b>                 | AC 100–240V, 50/60 Hz                        |
| <b>Output</b>                | DC 24V / 2.5A (peak 9A)                      |
| <b>Operating Environment</b> | 5° C to 40° C, 30%–85% RH (non-condensing)   |
| <b>Storage Environment</b>   | -20° C to 50° C, 10%–90% RH (non-condensing) |

### Physical Characteristics & Accessories

|                    |  |
|--------------------|--|
| <b>Dimensions</b>  | 308 × 250 × 180 mm (L × W × H)                               |
| <b>Weight</b>      | 2.85 kg  |
| <b>Accessories</b> | External label holder (10" OD), cutter module, peeler module |

### Regulatory Compliance

|                     |                              |
|---------------------|------------------------------|
| <b>Certificates</b> | CCC, CE, FCC, CB, WEEE, RoHS |
|---------------------|------------------------------|

