

# RFID Labeling Solutions for Every Application



**Stronger  
Together**

# Benefits of Our RFID Labeling Solutions



## High Speed Encoding

Optimized for standard label printing production speeds, the TSC Printronix Auto ID RFID printers use an Encode During Print feature which avoids the back-up or advance to align the inlay with the printer antenna which is common with other brands of RFID printers. The result is higher encoding speeds.



## Standard, On-Metal and Other Tag Types

The T4000 and T6000e support both standard RFID labels and on-metal tags up to 2.2 mm thick. The above-label antenna ensures compatibility with foil-backed tags making these printers ideal for high value asset tracking applications such as with IT equipment, production tools, and high value inventory.



## Advanced RFID Chip Support

TSC Printronix Auto ID RFID printers support all mainstream chip vendors, encoding both EPC/Ull memory and USR memory up to 8kB. We continue to augment encoding commands based on the latest GS1/ISO standards while also adding support for specialty chips that have features such as advanced encryption, dual frequency HF/UHF, and sensor tags.



## RFID Auto-Calibration

Similar in concept to label gap sensor calibration, TSC Printronix Auto ID printers can also easily calibrate RFID labels to ensure your printer is setup for optimal encoding. Working in harmony with the high speed encoding, you are assured your printer is setup for maximum RFID label throughput.



## Tag and Inlay Validation Lab

Our RFID Tag and Inlay Validation Lab continuously tests emerging RFID inlays and on-metal tags to ensure they operate in our RFID printers. We support an ever-increasing range of products giving you confidence that our printer will work in your application. Check our [RFID Solutions webpage](#) for the latest test results.



## And Much More...

TSC Printronix Auto ID RFID printers have a wealth of rich features

- Multiple competitor languages
- On the T4000 and T6000e, full overstrike of labels with bad inlays
- Yield statistics tracking
- RFID upgrade kits to convert existing non-RFID printers

## The Smarter Choice for RFID Labels

We have the industry expertise and production capabilities to provide the RFID labels your customers need. Not only are we experts in RFID printer-encoders, but we also sell labels through trade only. All our RAIN RFID labels are guaranteed to provide consistent, optimal performance with TSC Printronix Auto ID RFID printers, having been tested and certified in our RFID Label and Verification Lab.

Whether you are looking to replace an existing RFID label or are new to RFID technology, we can provide the RAIN RFID labels you need. If you need a particular inlay or would like to know if our labels are compatible with your existing specifications, please contact our supplies team at [supplies@tscus.com](mailto:supplies@tscus.com), and we can advise.



## T6000e

### Enterprise-Level Industrial Printer



The T6000e RFID printer is designed for high-volume RFID label applications of up to 10,000 labels per day. The printer includes an internal and external antenna giving it the flexibility to support a wide range of RFID applications including on-metal and standard RFID labels. This versatile series is available in 4-inch and 6-inch print widths with 203/300/600 dpi print resolution and includes a full suite of communication options.

RFID System	Encoding – RAIN / UHF Standard – GS1 EPC Gen2 v2 / ISO 18000-63 Antenna – Internal adjustable & external fixed Printer Languages – PGL, ZGL, STGL, MGL
RFID Labels	Types – Standard / On-Metal / Other On-Metal Tags – Thickness up to 0.088" (2.2mm) Label Pitch – Down to 0.625" (16mm) RFID Label Calibration – Automatic
Chip (IC) / Inlays	Chips – Includes Alien, Asygn, Axzon, EM Micro, Fudan, Impinj, Kiloway, NXP, Tego Inlays – Check our <a href="#">RFID Solution webpage</a> for the latest list of supported chips and inlays
RFID Data Validation	Encoding Failures – Full / Partial Label Overstrike (Depends on label length) RFID Label Counter – Tracks good/bad labels
Print Resolution	203dpi, 300dpi, 600dpi
Max Print Speed	4" 14ips@203dpi, 12ips@300dpi, 6ips@ 600dpi 6" 12ips@203dpi, 10ips@300dpi
Max Print Width	4.1", 6.55"
Media Handling	Tear, Cutter, Peel/Rewind*, Batch/Rewind*
Interfaces	Standard – Ethernet, USB Host/Device, Serial Optional – 802.11 a/b/g/n/ac, Parallel, GPIO



## T800

### Enterprise-Level Desktop Printer

Designed for lower volume applications of up to 2,500 labels per day, the T800 provides a cost-effective solution for encoding and printing of RFID labels. It has an adjustable, multi-position, center-justified antenna enabling it to work with a wide range of label constructions.

RFID System	Encoding – RAIN / UHF Standard – GS1 EPC Gen2 v2 / ISO 18000-63 Antenna – Internal adjustable Printer Languages – PGL, ZGL, STGL, MGL
RFID Labels	Label / Tags – Standard Label Pitch – Down to 0.625" (16mm) RFID Label Calibration – Automatic
Chip (IC) / Inlays	Chips – Includes Alien, Asygn, Axzon, EM Micro, Fudan, Impinj, Kiloway, NXP, Tego Inlays – Check our <a href="#">RFID Solution webpage</a> for the latest list of supported chips and inlays
RFID Data Validation	Encoding Failures – Full / Partial Label Overstrike (Depends on label length) RFID Label Counter – Tracks good/bad labels
Print Resolution	203dpi, 300dpi
Max Print Speed	8ips@203dpi / 6ips@300dpi
Max Print Width	4.1"
Media Handling	Tear, Peel**, Cutter**
Interfaces	Standard – Ethernet, USB Host/Device, Serial Optional – 802.11 a/b/g/n/ac, MFi Bluetooth 5.0



\*Four-inch, internal antenna only

\*\* Performance may be limited depending on label construction

## T4000

### Mid-Level Industrial Printer

The T4000 provides excellent flexibility, supporting both standard labels and tags, as well as 'on-metal' tags (that can operate on metal surfaces). It is designed to support mid-volume applications of up to 5,000 labels per day. With a smaller footprint and metal enclosure, it can operate in tight spaces yet still provide the durability needed for enterprise applications.

RFID System	Encoding – RAIN / UHF Standard – GS1 EPC Gen2 v2 / ISO 18000-63 Antenna – External fixed Printer Languages – PGL, ZGL, STGL, MGL
RFID Labels	Types – Standard / On-Metal / Other On-Metal Tags – Thickness up to 0.05" (1.2mm) Label Pitch – Down to 0.625" (16mm) RFID Label Calibration – Automatic
Chip (IC) / Inlays	Chips – Includes Alien, Asygn, Axzon, EM Micro, Fudan, Impinj, Kiloway, NXP, Tego Inlays – Check our <a href="#">RFID Solution webpage</a> for the latest list of supported chips and inlays
RFID Data Validation	Encoding Failures – Full / Partial Label Overstrike (Depends on label length) RFID Label Counter – Tracks good/bad labels
Print Resolution	203dpi, 300dpi
Max Print Speed	10ips@203dpi / 7ips@300dpi
Max Print Width	4.1"
Media Handling	Tear, Cutter
Interfaces	Standard – Ethernet, USB Host/Device, Serial Optional – 802.11 a/b/g/n/ac, MFi Bluetooth 5.0



## Alpha-40L RFID

### Enterprise Mobile Printer

Complementing the stationary printers, the Alpha-40L brings mobility to your print/encode RFID labeling applications. Designed to support up to 1,000 labels per day, the Alpha-40L is ideal for lower volume on-demand RFID labeling applications where the convenience of printing/encoding at the point of need is essential.

RFID System	Encoding – RAIN / UHF Standard – GS1 EPC Gen2 v2 / ISO 18000-63 Antenna – Fixed position Printer Languages – TSPL, ZPL
RFID Labels	Label / Tags – Standard Label Pitch – Down to 0.625" (16mm) RFID Label Calibration – Automatic
Chip (IC) / Inlays	Chips – Includes Alien, Asygn, Axzon, EM Micro, Fudan, Impinj, Kiloway, NXP, Tego Inlays – Check our <a href="#">RFID Solution webpage</a> for the latest list of supported chips and inlays
RFID Data Validation	Encoding Failures – Full / Partial Label Overstrike (Depends on label length) RFID Label Counter – Tracks good/bad labels
Print Resolution	203dpi
Max Print Speed	5ips
Max Print Width	4.1"
Media Handling	Tear
Interfaces	Standard – USB-C with either Wi-Fi 802.11 a/b/g/n/ac or MFi Bluetooth 5.0



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