

# RFID Printers for Every Application



**Stronger  
Together**

# Benefits of Our RFID Printers



## 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. TSC Printronix continues 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

## 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.



T6000e  
RFID Journals  
Top 10 Products  
of 2020

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



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



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



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

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