





TSC Auto ID tscprinters.com

Nem ND.: 456 / 850 / 253 Size: 7 Size: 7 Stock: 150 pcs Stock: Location: Warehouse A- 80 pcs Warehouse C- 70 pcs Online Order: 30 pcs

Item No.: 2345678901

tock: 120 pcs tock Location: Warehouse B- 74 pcs Store C- 46 pcs Inline Order: 15 pcs

Maximize Efficiency and Accuracy: Harness the Power of Cutting-Edge RFID Printers with Proven Reliability and Functionality

Over the years, RFID technology has been increasingly considered and even adopted to facilitate operations. Whether RFID is implemented due to market trends such as digital supply chain, intelligent automation, and supplier mandates or regulatory trends such as food traceability and healthcare visibility, RFID labeling has proven to bring significant benefits across industries and applications.

Why RFID Matters?

Adopting RFID technology in labeling allows for the identification of items without the need to locate and read each label on the item physically. Single or multiple items can be tracked within seconds without direct line-of-sight, providing a range of operational advantages. This technology facilitates efficient item management, ensuring high accuracy and saving a significant amount of time, resources, and costs associated with managing inventory or assets, especially when items are consistently transferred across the supply chain or on the move.



Why Print-On-Demand?

Printing and encoding labels in-house requires blank RFID labels and RFID-capable printers. While it may seem like a substantial upfront investment, this approach provides the flexibility to encode the labels with real-time data. Moreover, when labeling requirements involve numerous different items and/or low quantities, on-demand labeling is particularly advantageous for minimizing the sourcing and inventory challenges.

Why Choose Us

Points to Consider Before Getting RFID Printers

Opting for on-demand printing is particularly advantageous for high-mix, low-volume products. However, to achieve optimal results, users need to make informed choices regarding RFID labels, printers, and label software. It's crucial to ensure that the printed and encoded elements align with specific requirements. The selection of the right RFID printer, a qualified RFID printer manufacturer, and their offerings are essential. Here are some points to consider.

RFID printer manufacturers should:



Demonstrate expertise in the RFID domain to offer consultancy services when required.

Be committed to product availability and continuous development.

Offer a one-stop shop with a broad range of RFID printer selections, ensuring there's always a best fit even when requirements change.



RFID printers should:

Support advanced, complex encoding standards to ensure the RFID labels meet industry or regulatory requirements, saving time and resources associated with "workarounds."

Allow for easy, fast switching between different label constructions without complicated, timeconsuming processes.

Be compatible with a wide range of RFID chips, tags, and label constructions, saving the need for multiple printers.

Be fast! Support RFID labeling requirements and existing business processes with industry-leading speed.

Points to Consider

Why Choose Us

Product Family

Why TSC Auto ID RFID Printers?



Meet Industry Standards

 TSC Auto ID collaborates extensively with multiple standards organizations, including GS1, ISO/IEC, AIM, and the RAIN Alliance. This ensures that our RFID printers correctly and sufficiently support various encoding standards, even as these standards evolve in response to the ever-changing market trends.





Flexibility for Numerous RFID Label Types

 TSC Auto ID's RFID printers offer the capability to switch between diverse label constructions seamlessly with ease and speed. This functionality not only saves valuable time and money – often only one printer type is needed to handle multiple different label constructions - but also reduces errors, ultimately leading to cost savings.



Technical Support

- Professional and immediate support: Post-purchase, if users encounter any issues with their RFID printers during setup, our team of professionals is readily available to resolve these matters efficiently. This ensures a timely and successful setup, enabling the printer to support business operations promptly.
- Guidance on numbering systems: Beyond just the ability to print RFID labels, we offer expertise in guiding users on RFID numbering systems. This ensures that the labels produced meet industry standards.

One-Stop Service

 We not only specialize in RFID printers but also sell RFID labels exclusively through channel partners. Our RFID labels are guaranteed to deliver optimal performance when used with our RFID printers. This one-stop service ensures that all your RFID labeling demands are effectively met when partnering with TSC Auto ID.

The Industry's Highest Price-Performance Ratio

- High-speed encoding: Optimized for standard label printing production speeds, TSC Auto ID's 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.
- Auto calibration: Easy set-up and quick RFID label calibration make sure your printer is ready for optimal encoding. Working alongside high-speed encoding, the printer is ready for maximum RFID label throughput, enhancing productivity.
- Supports a wide range of tag types: The printers support a wide range of tag types, including on-metal tags, to fulfill diverse requirements. Some models support both standard RFID labels and on-metal tags up to 2.2 mm thick, possessing the ability to change tag types due to changing requirements.
- Advanced RFID chip support: TSC Auto ID continues to enhance 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.

Product Reliability

- Durability: TSC Auto ID's RFID printers are not only physically robust and capable of handling demanding environments & workloads with an extended MBTF but also technologically advanced. This ensures reliable and proper encoding of RFID labels.
- In-house evaluation and testing: Our RFID Printer and Label Validation Lab continuously tests emerging RFID inlays, on-metal tags and other tag constructions to guarantee seamless operation in our RFID printers. We consistently expand our product range, ensuring that our printers meet the evolving demands of your labeling needs. Refer to our RFID Solutions webpage for the latest test results.
- Product quality:
 - TSC Auto ID's self-owned ISO-certified production site underscores our commitment to delivering printers of the highest quality.
 - For specific configurations, we offer certain customizations that are directly manufactured in our facility, ensuring timely availability of printers to meet your demands.

Product Family



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RFID Printer Family

RFID is increasingly recognized as a fast and cost-effective method for asset tracking, particularly beneficial for enterprises overseeing extensive product inventories and valuable assets. The application of RFID extends across diverse industries, including retail, healthcare, manufacturing, shipping, logistics, and more. Our RFID printer family comprises of high-performance enterprise designs, compact industrial models, desktop models suitable for varying volume needs, as well as mobile and print engine models. The high-speed and advanced RFID printer options empower users to tag their inventory and track equipment effortlessly in real-time.

Industrial RFID Printer T6000e RFID 4" & 6"

The T6000e RFID printer, for high-volume RFID label applications, is a versatile series available in 4-inch and 6-inch print widths with 203/300/600 dpi print resolution. It features both internal and external antennas, supporting various RFID applications, including on-metal and standard RFID labels.

Industrial RFID Printer

T4000 RFID

The T4000 provides excellent flexibility, accommodating standard labels and tags, as well as on-metal tags. Its compact footprint and metal enclosure make it wellsuited for constrained spaces while ensuring it meets the durability requirements for enterprise applications.

Print Engine

PEX-2000 RFID 4" & 6"

The PEX-2000 Print Engine seamlessly combines high-performance RFID encoding with exceptional reliability in a compact design for automating itemlevel RFID tagging. With a rich legacy, it effortlessly incorporates into any print and apply system, providing a comprehensive solution.



Desktop RFID Printer T800 RFID

Tailored for lower volume applications, the T800 offers a cost-effective solution for encoding and printing RFID labels. Its adjustable, multi-position encoding antenna allows compatibility with a diverse range of label constructions.







Mobile RFID Printer Alpha-40L RFID

The Alpha-40L brings mobility to RFID labeling applications. Designed for roaming, field use and exception tagging, it provides the convenience of printing and encoding at the point of need.

Intro

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Product Selection

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Product Selection

TSC Auto ID provides a comprehensive range of RFID-enabled printers designed for various applications and requirements. The table below will streamline the printer selection process, assisting you in finding the ideal RFID printer for your applications based on factors such as print volume, label type, RFID label constructions, and mobility requirements.















	Model	T6000e RFID 4"	T6000e RFID 6"	T4000 RFID	T800 RFID	PEX-2000 RFID 4"	PEX-2000 RFID 6"	Alpha-40L RFID
Printer Type		Industrial	Industrial	Industrial	Desktop	Print Engine	Print Engine	Mobile
Duty Cycle		10,000 labels / day	10,000 labels / day	5,000 labels / day	2,500 labels / day	20,000+labels / day	20,000+ labels / day	1,000 labels / day
	Encoding	RAIN / UHF						
RFID System	Standard	GS1 EPC Gen2 / ISO 18000-63						
		Internal adjustable, external fixed	External fixed	External fixed	Internal adjustable	Internal fixed	Internal fixed	External fixed
	Printer Languages (RFID Encoding)	PGL, ZGL, STGL, MGL	PGL, ZGL, STGL, MGL	PGL, ZGL, STGL, MGL	PGL, ZGL, STGL, MGL	TSPL-EZD, TSPL-EZS	TSPL-EZD, TSPL-EZS	TSPL-EZC
RFID Labels	Types	Standard / on-metal / other	Standard / on-metal / other	Standard / on-metal / other	Standard	Standar	Standard / other	
	Max. Media Thickness	2.2mm(0.088")	2.2mm(0.088")	1.2mm(0.05")	Standard RFID	1.2mm	(0.05")	Standard RFID
	Label Pitch	Down to 15.9mm(0.625")						
	Calibration	Automatic						
Chip(IC) / Inlays		Chips: Support for all mainstream chips and many new advanced chips Inlays: Support for all common inlay designs Check our RFID Solution webpage for the latest list of validated chips and inlays						
RFID Data Validation		Encoding failures: Full / partial label overstrike(depends on label length) RFID label counter: Tracks good/bad labels				Encoding failures: Full label overstrike RFID label counter: Tracks good/bad labels		
Print Resolution		203dpi, 300dpi, 600dpi	203dpi, 300dpi	203dpi, 300dpi	203dpi, 300dpi	203dpi, 300dpi, 600dpi	203dpi, 300dpi	203dpi
Max. Print Speed		14ips@203dpi, 12ips@300dpi, 6ips@600dpi	12ips@203dpi, 10ips@300dpi	10ips@203dpi, 7ips@300dpi	8ips@203dpi, 6ips@300dpi	18ips@203 dpi, 14ips@300 dpi, 6ips@600 dpi	14ips@203dpi, 12ips@300dpi	Up to 5ips @203dpi
Media Print Width		104mm(4.1")	166mm(6.55")	104mm(4.1")	104mm(4.1")	104mm(4.1")	168 mm(6.61")	104mm(4.1")
Media Handling		Tear, cutter, peel/ rewind*, batch/rewind*	Tear, cutter	Tear, cutter	Tear, peel**, cutter**	Peel, tear	Peel, tear	Tear

*Four-inch, internal antenna only ** Performance may be limited depending on label construction

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Product Selection

Success Stories

Retail



Walmart Home Décor Supplier Easily Complies with RFID Requirement

Overview

Walmart expanded RFID tagging to include more product categories, requiring RFIDtagged items for many product categories from August 2022. A U.S. home décor supplier is handling printing, encoding, unique serialization and label management in-house at its three manufacturing sites, utilizing as few RFID printers as possible.

Solution

The T6000e enterprise-grade RFID printer successfully encoded, printed, and seamlessly switched between the five different label constructions utilizing the three chosen inlays by the supplier. This eliminated the need for multiple printers.

User Benefits

- Minimize the need to have a printer for every label type
- Supports different label configurations
- Easily switch back and forth between different label types

Retail



Help Opticians to See Eyewear Stock in Real-Time

Overview

Inventory tracking software is generally not designed to handle a diverse range of eyewear options throughout routine business processes such as ordering, returns, credits, drop shipments, and consignment. Practices often become aware of their eyewear inventory only during inventory checks, leading to reliance on assumptions and guesswork as they don't do it regularly.

Solution

The T800 RFID enterprise-grade desktop thermal label printer was chosen to enhance a cloud-based inventory management solution for one of our ISV customers. This allows the optical shops to print and encode RFID labels for attaching to frames. As a result, the shops can generate labels for their inventory that are readable from a distance of 10 feet or more.

User Benefits

- Complete inventory in as little as 10 minutes and more often
- Increased inventory from approximately 70% to close to 100%
- Saving significant time and money while improving the overall operation

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