





Remote Management

Product Selection

and mobile devices from anywhere, anytime.

3. Maximizing your Perfect Order RateGlobal retailers maximize lifetime customer

value by improving their perfect order rates with perfect order data. This metric



Solution Overview

Optimizing your Supply Chain with Auto ID Solutions

In response to these challenges, TSC has heavily invested in IT and Operations-centric solutions using reliable, efficient and secure AutoID technologies. Traditional and 2D barcodes along with RFID have become an invaluable tool for digitizing your supply chain from the automatic generation of work orders to inventory management and product traceability. A higher perfect order rate is now within your control. Key benefits discussed in this guide include:

- Optimized receiving and shipping processes using scannable barcode labels to ensure accurate crossdocking, proof of delivery, and error-free fulfillment.
- Real-time inventory visibility with RFID technology to maintain optimal inventory levels, increase warehouse turnover rates, optimize pricing, and prevent stockouts.
- Cost-effective and easy to manage mobility solutions to collect, analyze, and view critical business data anywhere in value chain.
- Warehouse management solutions that integrate with existing equipment and workflows to optimize receiving and pick and pack processes.

- Device management from anywhere to monitor device health, ensure security, troubleshoot configurations and settings, and maintain the highest asset uptimes.
- Reduced label, ribbon and liner waste for shipping labels, supporting your sustainability and cost-savings goals.



PROS CONS

Points to Consider

Key Considerations when Building your AIDC System

When designing, upgrading, and deploying your AIDC equipment, like barcode and RFID label printers and mobile computers, look to maximize your return on investment (ROI), scale your solution and future-proof your processes by considering these key factors:



Verify Barcode Quality

Managing raw materials coming in from suppliers and then goods out to your customers relies on readable barcodes. Guarantee success, reduce rework and boost perfect order rate by automatically inspecting barcode quality.



Labeling Automation Boosts ROI

Automating your labeling operation is a high ROI project. Labeling can be repetitive, ergonomically challenging, and may not increase the value of your product, making automation using print and apply systems a smart target. Also consider semi-automated solutions.



Request RFID Encoding and Scanning Assessment

Request an automation assessment and learn the financial merits of an RFID solution to improve cycle count accuracy, lower unproductive labor spend and increase supply chain visibility.



Rugged Mobile Printing and Scanning

Minimize downtime. Generate and scan codes anytime, anywhere with durable and reliable mobility solutions, that include battery management for harsh environments.



Linerless Printing

Go eco-friendly and eliminate liner waste from your operation with linerless label printing.
Sustainability projects like this have benefits beyond ES&G and can eliminate steps during production and shipping.



Remote Device Management and Connectivity

Securely manage devices from anywhere with solutions that connect with your business systems to sustain, manage, and control your assets for maximum return on investment and minimum headaches.



Our Offerings

Comprehensive Enterprise Auto ID Solutions

TSC Auto ID offers a wide range of solutions tailored to your global supply chain, addressing key challenges like inventory management, traceability, and production efficiency. Our solutions include:

Barcode Quality

Barcode printing and scanning has reduced errors related to data entry from 1 out of 300 to 1 out of 3x10¹⁰, but the consequences for barcode failures in the global supply chain can be devastating including carrier loss, chargebacks, automation errors, and product rework. The good news is that most of these concerns can be mitigated by employing a barcode inspection system using 100% verification. Our exclusive ODV-2D barcode inspection technology easily validates and verifies barcode labels. Based on the robust T8000 and T6000e printer platforms, ODV-2D grades barcodes to ISO standards and stores a detailed report of each transaction. Our exclusive technology reads each barcode, overstrikes the entire label of a rejected barcode, and reprints a new label automatically. You can also use the high-accuracy, high resolution scanners embedded in our S50 rugged mobile computers to ensure your goods come and go on schedule.

Mobility Devices

The use of handheld devices is vital for everyday business needs, requiring fast performance with persistent connectivity, advanced data capture, lightweight ergonomics, as well as simplified and secure authentication. Our Bluebird mobile devices fulfill critical business missions with numerous key features such as multi-OS support, true mobility and industry-leading battery life. Plus, ergonomic and rugged designs with network connectivity that is globally certified. The product lineup includes rugged handheld computers like the S20, S50, and S70, which are built for durability and equipped with the newest technology and support for the stable Android 13 OS and up to Android 17. We also provide ultra-rugged, high-performance models such as the EK430 and EF551, which are optimized for physical keyboard operations and demanding environments, respectively.



RFID Experts

RFID has become a trusted industrial standard in the global supply chain owing to improvements in tagging costs, standards in encoding and formatting, and improvements in read range performance for demanding applications. Beyond becoming the best practice for managing reusable shipping assets (RSA), RFID workflows are eliminating time and labor associated with inventory management and asset locating. We are enabling these applications both with our award-winning RFID print-and-encode platform based on the T6000e series and with the Bluebird RFID RFR901 scanners offering the fastest scan rates (over 1300/sec) and longest read ranges (over 10 m). We offer hard-to-find solutions for large labels, on-metal tags, lightweight grips, long-lasting battery life, scan-and-encode interoperability, and the most accurate calibration in the industry.

Sustainable Labeling

Sustainability is critical to reduce the environmental impact from complex and global supply chains. Besides that, measures to reduce material usage also result in cost savings that drive additional profitability. We offer solutions that cut waste and enhance efficiency. Our linerless printing technology eliminates backing liners, reducing waste as well as improving safety by preventing slips. Our print engines with ribbon saver technology minimize ribbon waste, especially for pre-print labels with serial numbers. Adopting these solutions helps manufacturers meet environmental goals, reduce consumable costs, and create a greener, safer work environment.

Automation PEX

Automation continues to drive cost and quality improvements in supply chain operations with recent investments in automated storage and retrieval systems, sortation systems and voice picking. These systems rely on accurate AIDC barcodes and RFID labels to function. You can also drive significant ROI by automating your labeling workflows. The PEX Series print engines produce barcode labels at fast print speeds, allowing for labeling in record time. The mechanism is designed to fit easily in any printand-apply system thanks to its fully compatible structure and GPIO interface. We work with dozens of ISVs and integrators, allowing us to boast the most print language compatibility of any manufacturer. PEX print engines are ideal for warehousing and logistics applications where high-speed and high-demand label printing is required to keep up with production, order fulfillment and industry regulations. They are also configurable for automated RFID applications. Our T30 series tablets and kiosk systems ensure the right information is at the right time and place during automated workflows.





Interoperability that Scales

TSC enterprise-grade industrial printers offer seamless ERP integration with a comprehensive emulation library, supporting various printer languages (Postscript, PDF, IPDS) and data streams. We handle diverse label and ribbon combinations, accommodating the broadest specifications for label dimensions, label accuracy, thickness and materials. New TSC mobile devices run on Android and Linux, are upgradeable, and compatible with the most common business applications.

verification, correcting errors without operator intervention. Plus, we controlchart printer performance, prompting maintenance to boost productivity and cut costs. Our BOS care platform streamlines device fleet management and optimizes deployment with built-in efficiency tools.



coordinate, and deliver for our global customers. Our experienced field engineers are ready to support and solve the most challenging AutoID applications, and our highly trained technicians are ready to help answer all of your mobile device, label, and label printing questions.



TSC Console and TSC Console Web

TSC Console Web is a web-based version of TSC Console—a printer management tool offering remote configuration, quick implementation, troubleshooting, and preventive maintenance. Now you can achieve centralized monitoring, cross-device management, intuitive data visualization, and enhanced team collaboration in a single device management tool. TSC Console offers your business solutions to:

- Centrally manage both TSC Auto ID and Printronix Auto ID printers
- Log device records and apply rules-based proactive alerts for preventative maintenance
- Manage and monitor your printers remotely across all your devices
- Enhance troubleshooting efficiency, reduce downtime, and lower maintenance costs
- Gain insights for your print assets with intuitive dashboards and visualizations
- Securely control authority levels to access, change and manage configurations

Bluebird BOS™

The Bluebird Business Optimizing Solutions (BOS™) are professional and comprehensive IT and mobility tools that scale. Developed over 20 years, this platform was developed specifically for IT Managers, Field Operators, Business Owners and Developers to maximize the ROI of mobile computing and distributed devices in your environment. The BOS suite of mobile device tools includes tools geared to:

- New Business Solution Development with BOS SDK
- Fast and Easy Device Deployments with BOS Provisioning
- Enhanced device security, location, and access control
- Communicate and Collaborate Securely with BOS VolP
- Manage Assets with BOS NEST (Mobile Devices) and BOS TMS (Terminals)
- Process innovation and workflow automation

Select the Right Solutions for Your Applications



Industrial



Product Selection

Select the Right Solutions for Your Applications









RFID Printers



Product Selection

Mobile Computers & Enterprise Tablets



Handheld mobile computer with high-performance for enterprise















EF550/EF550R

Managed Computers

The sleek and bezel-less design of a consumer smartphone with enhanced durability and enterprise functionality





HF550X





Keypad Computers



Interactive Tablets

The right customer service solution for your business



Product Selection

Mobile Computers & Enterprise Tablets

Handheld RFID Readers



Short Range RFID



Fixed RFID Reader







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