



**ZEBRA**

# **Real-time Information. Responsive Logistics.**

Visibility for today's digital supply chain.

# Zebra brings visibility to your entire supply chain.

The world is changing faster than ever before and the supply chain is becoming more and more complex. Data collection and analytics are becoming of greater importance for logistics providers to optimize their supply chains and gain the visibility they need to manage inventory in the warehouse, throughout the yard, port or terminal and even on the road. What used to take weeks is now expected to take only hours. As expectations grow, transportation and supply chain management requires a high degree of visibility to remain agile enough to meet these expectations of flawless fulfillment and delivery.

Zebra's innovative technology solutions provide businesses with the operational visibility required to build an intelligent enterprise and stay competitive. Real-time information helps you respond quickly to shifting business priorities and economic conditions. When you can see every asset, person and process in real time, it's easy to streamline your workflows, increase productivity and asset utilization and be connected to your supply chain wherever you are.

## Achieve a Connected Supply Chain

Zebra provides operational visibility across the supply chain to connect assets, people processes and inventory—enabling a frictionless chain of custody, reliable accuracy and real-time informed decision-making.

## Maximize Operational Efficiency

Zebra solutions help you streamline workflows, improve asset utilization and accelerate productivity—to increase profitability and meet rising customer expectations.

## Deliver Flawlessly

Zebra allows you to optimize operations to deliver faster, more accurately and provide the real-time tracking information customers expect.



### Warehouse Solutions

- Storage
- Wholesale
- Distribution
- Fulfillment
- 3PL Contract Logistics

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### Yard & Terminal Solutions

- Trucking
- Air Cargo
- Maritime Ports

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### Fleet & Delivery Solutions

- Postal
- Parcel
- Express
- Courier

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# Enterprise Asset Intelligence

MAKING SMARTER BUSINESS DECISIONS.

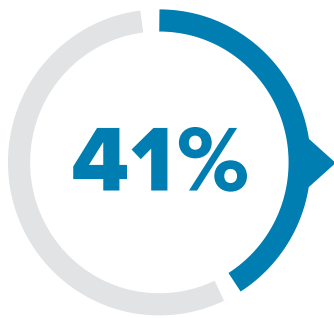
With Zebra, you have unrivaled visibility into every corner of your operations through Enterprise Asset Intelligence. You can make smarter, more informed decisions to maximize operational efficiencies, achieve a connected supply chain and deliver flawlessly.



**70% of businesses** managing a supply chain will equip staff with technology by 2020.<sup>1</sup>

*“In the past, Whirlpool managed all devices with spreadsheets, some more than a half-mile long... [Today] we can track actual utilization by device, that can be mapped back to an associate so we can understand the productivity of that particular associate”*

[\(source: Whirlpool Success Story\)](#)



**41% of businesses** report faster delivery times are driving change for their businesses.<sup>1</sup>

*“Workers who pick, on average, 800 SKUs during a shift and scan the location, item and trolley for each SKU—in total, circa 2400 scans—are saving up to an hour per shift, equating to a 10% uplift in productivity.”*

[\(source: ASICS Europe BV Case Study\)](#)



**60% of businesses** will invest in big data and analytics by 2020.<sup>1</sup>

*“98% of logistics providers say data-driven decision-making is essential to the future success of supply chain activities and processes.”*

[\(source: 2017 Third-Party Logistics Study\)](#)

<sup>1</sup>Zebra Warehouse Vision Study 2017



# Zebra Warehouse Solutions

TAP INTO THE POWER OF THE SMART WAREHOUSE.

Having an integrated supply chain allows you to increase productivity throughout your warehouse—from receiving to picking to cross-docking and shipping. Whether your warehouse is for storage of raw materials and manufactured goods, cold storage, distribution, fulfillment or long- or short-term dock storage, Zebra solutions help you increase accuracy, boost efficiency, exceed operational expectations and achieve the agility to stay competitive and connected to your inventory at all times.



## RECEIVING

Get materials from dock-to-stock as quickly as possible to ensure inventory is always available and up-to-date. Accurately capture data, label cartons and reconcile details with your Warehouse Management System (WMS) with mobile computers, printers and scanners.



## CROSS DOCKING

Synchronize your cross docking operations. Automate scanning processes and track equipment movement with RFID, use long-range scanning to capture label information in harsh environments and minimize inefficiencies.



## PUT-AWAY & REPLENISHMENT

Ensure downstream operations like picking, cycle counting and reordering run smoothly with accurate and expedited put-away. Connect workers with mobile devices on the warehouse floor to your WMS to have real-time location, quantities and availability of new inventory.



## INVENTORY & MATERIALS MANAGEMENT

Have an accurate count and location of all your raw materials and finished goods by performing essential cycle counts quickly and more often. Scanning, mobile computing, printing and RFID solutions reduce time and increase accuracy.



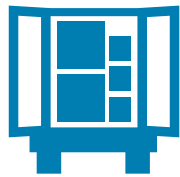
## PICKING

Experience both speed and accuracy whether you are specializing in pallet, case or high-velocity picking. Workers are completely mobile and hands-free with their voice-directed, wearable scanning and computing devices.



## PACKING & STAGING

Confirm order accuracy, provide traceability and dynamically stage to ensure error-free outbound loading. 1D and 2D scanning, RFID, wearables, printing and locationing technologies provide the right mix of data capture and tracking necessary to complete order fulfillment flawlessly.



## SHIPPING

Verify shipping details, trailer assignments and optimize space utilization to ensure flawless fulfillment. Mobile scanning, RFID technology, locationing and 3D sensing technology provide you with the automation and traceability you require to increase efficiencies at your dock.



## REVERSE LOGISTICS

Add visibility to your returns process and streamline your workflows. Mobile computing and printing capabilities help you document the receipt, condition and resolution so you can quickly restock, refurbish or discontinue goods to control waste and salvage useable inventory.



## COLD CHAIN MANAGEMENT

Be more productive when operating in extreme temperature conditions. Increase productivity with devices that are engineered to provide reliable operation, regardless of dramatic temperature and humidity swings. Mobile and vehicle-mounted computers, wearables, 1D and 2D scanners, and printers alleviate common cold chain challenges.

# Zebra Yard & Terminal Solutions

INCREASE EFFICIENCY, SAFETY AND SECURITY.

Maintain visibility throughout your yard, port and terminal to ensure the safety, security and efficiency you require to continuously track assets, streamline workflows, communicate with your workforce and minimize wait and turnaround times. With Zebra mobile solutions, you can manage all the moving parts of a busy yard and ensure compliance every step of the way.



## ASSET & FACILITY MANAGEMENT

Know where people and assets are at all times. Provide a safe work environment by accounting for the location and condition of equipment, as well as where workers and guests are and have been. Mobile devices, RFID, printing and locationing solutions help to provide visibility throughout the yard to ensure accessibility to equipment and workers, optimize time and increase safety.



## YARD MANAGEMENT

Increase throughput and optimize space with asset visibility that facilitates increased gate transaction speed, improves switcher productivity and ensures the right trailer and equipment arrives at the right place at the right time. Using Zebra's mobile computing devices, locationing technology, RFID and Yard Management System (YMS), you have the operational visibility to maximize space, resources and time.



## STAFF COMMUNICATION

Provide your workforce with the essential communication tools necessary to operate efficiently in expansive and noisy areas. With one mobile device that does it all, workers can communicate with push-to-talk or phone capabilities and send text or images when it is too loud to talk. Your yard and terminal operations are too important to miss critical instructions.



# Zebra Fleet & Delivery Solutions

DELIVER UNRIVALED VISIBILITY WHILE INVENTORY IS IN TRANSIT.

Whether you are transporting your own inventory or the chain of custody has been transferred to you, increased visibility at every touchpoint throughout the journey provides the inventory accountability you, your shippers and customers require with the volume and velocity at which parcels and freight move today. Zebra's fleet and delivery solutions provide parcel, post and freight carriers with the mobility and traceability required to exceed expectations—from floor to door.



## FLEET MANAGEMENT

Keep your drivers on the road to ensure all your customer commitments are met. With enterprise-grade mobile computers, your drivers can communicate the location and health of assets, use telematic monitoring for their vehicles and keep accurate data for compliance checks. All this helps reduce downtime, increase productivity and meet regulations.



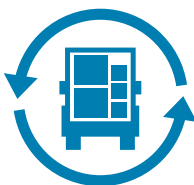
## PROOF OF PICK-UP & DELIVERY

Provide visibility to the two most critical points in the delivery process. Having proof of pick-up and delivery allows you to secure payment, but also puts your customer's mind at ease. With all the varied delivery options available, increased volumes and last minute re-routing, reliable electronic records are a necessity for the logistics industry. With durable, enterprise-grade mobile computing and printing devices, you can capture and store all the pertinent details needed to document successful pick-up and delivery.



## POSTAL & COURIER

Provide superior, on-time service in the last mile to ensure customer satisfaction. Get visibility into the complex operations like sortation, fleet management and tracking and tracing packages. Through enterprise-grade mobile computers, scanners and printers, your drivers and loaders will increase productivity and save time. In addition, innovative technologies such as RFID, locationing and data analytics can add more automation to ensure accuracy, efficiency and optimization. Deliveries will be on-time, every time.



## DOCK OPTIMIZATION

Turn your sortation center docks into smart docks. Connect your workers to your Transportation Management System (TMS) to verify information such as shipping details, dimensions and trailer assignments to work productively and utilize trailer space more efficiently. Mobile scanning, RFID technology, locationing and 3D sensing technology\* helps optimize workflows for your dock operations and provides the traceability you need to document each change in the chain of custody.

\*3D sensing technology solutions not available in all countries, contact Zebra for more information.

# Products

BUILD YOUR TRANSPORTATION AND LOGISTICS SOLUTION WITH THESE COMPONENTS.

## HARDWARE



### Wearable Solutions

Give your workers hands-free accessibility to data and information with ring scanners and headsets connected to arm-mounted mobile computers for voice-directed multi-modal tasks to increase safety and productivity.

#### APPLICATIONS INCLUDE

- Picking
- Loading
- Sortation
- Packing



### Vehicle-Mounted Computers

Increase productivity of your forklift drivers by making every second count. Give them mobile access to desktop applications to complete tasks quickly and accurately without leaving their lift truck. Pair with long-range scanners to increase efficiency.

#### APPLICATIONS INCLUDE

- Inventory management
- Putaway
- Asset tracking
- Cold chain management
- Picking
- Shipping & Receiving
- Cross docking



### Ultra-Rugged Handheld Scanners

Experience fast and accurate 1D and 2D long-range scanning and effortless deployment, connectivity and management. Superior performance, ultra-rugged design and unrivaled manageability tools combine to redefine the scanning experience.

#### APPLICATIONS INCLUDE

- Receiving
- Shipping
- Cross docking
- Cold chain management



### Handheld Mobile Computers

Increase productivity, accuracy and efficiency to give workers reliable access to enterprise systems such as your WMS or TMS for real-time decision making wherever they are.

#### APPLICATIONS INCLUDE

- Receiving & putaway
- Proof of condition
- Order fulfillment
- Shipment & asset tracking
- Cold chain management
- Staff communication
- Proof of pick-up & delivery
- Sortation



### Tablets

Provide workers with a rugged enterprise-grade tablet that is made to run your business applications with the durability to withstand the harshest environments. The large screen, integrated scanning, Wi-Fi and cellular connectivity, extended battery life and purpose-built accessories keep workers productive through an entire shift.

#### APPLICATIONS INCLUDE

- Inventory management
- Proof of pick-up & delivery
- Dock & line haul management
- Asset management
- Device management
- Fleet management & navigation
- Access to data analytics



### RFID Readers & Printers

Streamline your operations with less manual scanning of individual items, maximize asset utilization and error-proof asset-related data using fixed and handheld readers and printers to optimize productivity.

#### APPLICATIONS INCLUDE

- Cycle counting
- Asset & facility management
- Cross docking
- Inventory & materials management
- Sortation





## Real-Time Locating Systems (RTLS)

Have complete visibility of assets to optimize flow throughout your operations and the supply chain. RTLS provides fast and accurate fulfillment, improved efficiency, wide-area asset traceability and better bottom line results.

### APPLICATIONS INCLUDE

- Yard management
- Inventory management
- Replenishment
- Dynamic staging
- Shipping
- Dock operations



## Desktop & Industrial Printers

Get high-quality printing with space-saving desktop or rugged industrial high-speed printers that are built to last and can handle the fast pace of any warehouse floor or harsh environment. With Zebra's barcode and RFID printer solutions, you can produce labels, receipts and documents.

### APPLICATIONS INCLUDE

- Packing slips
- Shipping labels
- Receiving carton & pallet labelling
- Sortation
- Reverse logistics
- Inventory & materials management



## Card Printers

Get clear, sharp images to identify employees and visitors easily. Zebra card printers deliver outstanding performance and quality every time. RFID badges allow for automatic identification in busy or harsh environments where hands-free is necessary.

### APPLICATIONS INCLUDE

- ID cards & badges
- Electronic timecards
- Secure card entry
- Asset tracking



## Mobile Printers

Equip your workforce with compact printing solutions that put printing in the palms of their hands wherever they are. Boost productivity and accuracy by printing labels, receipts or tags on-demand.

### APPLICATIONS INCLUDE

- Receiving
- Putaway & replenishment
- Reverse logistics
- Cold chain management
- Proof of pick-up & delivery
- Dynamic staging

## CERTIFIED SUPPLIES



Improve operational efficiency and productivity with the highest quality labeling, tagging and receipt printing. Zebra Certified Supplies are pre-tested to ensure they withstand harsh environmental conditions, are readable for your scanning devices, workers, and customers every time, as well as replace easily to reduce downtime.

### APPLICATIONS INCLUDE

- Carton & pallet labeling
- Shelf labeling
- Equipment & asset tagging
- Security ID cards
- Receipt printing
- 1D and 2D barcoding
- RFID

# SOFTWARE



## Productivity & OS Software

Improve employee, network and data security performance with software designed to connect, protect and enhance your IT infrastructure, customer data and mobile device solutions. Zebra provides:

- Mobility extensions that add features that make Android™-based devices enterprise-ready
- Mobile device management applications
- Productivity apps
- Robust administration utilities & app development tools
- Voice & messaging connectivity
- Printer connectivity
- Support for Android™

### APPLICATIONS INCLUDE

- Proof of delivery & pick-up
- Shipping & receiving
- Barcoding
- Push-to-talk communication



## Analytics Solutions

Pairing your mobility solutions with an analytics engine helps you look at your data in a way that allows for smarter, more informed decision making. Offering enterprises the ability to see data in a meaningful context in real time, Zebra provides innovative software analytics solutions that integrate with your enterprise systems to support specific operational areas of your business—enabling you to make impactful improvements on productivity and profitability.

### APPLICATIONS INCLUDE

- Trailer Optimization\*

*\*Not available in all countries, contact Zebra for more information.*



## Independent Zebra Vendor Network

Zebra's global network of Independent Software Vendors (ISVs) offers innovative software applications for Zebra devices and systems. Our ISVs can help you identify the best applications for your business or develop custom software to address your unique needs.

### APPLICATIONS INCLUDE

- Proof of delivery
- Inventory & materials management
- Voice-directed picking
- Yard management
- Navigation & route optimization
- Fleet management & scheduling
- Payment

# SOLUTION SERVICES



## Solution Consulting

Wherever you are in your enterprise intelligence journey, Zebra brings proven methodologies, tools and vertical expertise to help accelerate achievement of desired business outcomes. Offering a wide range of consulting services, we help you evaluate your current operations, identify pain-points and optimize your business processes.



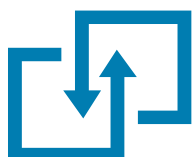
## Solution Integration & Application Services

Zebra can manage your transition with application services, including design reviews, code development, application porting, ERP integration and testing/validation, as well as integrate your entire communications system from networks to devices to applications using our Six-Sigma program management team.



## Learning & Adoption with Zebra Knowledge Center

Zebra's award winning Knowledge Center is at the forefront of learning innovation, helping customers with user adoption and change management to optimize their solution investments. Zebra also offers programs that validate competency and provide accreditation in advanced deployment and technology skills through your choice of delivery format: onsite or offsite instructor-led, self-paced online, virtual instructor-led, video and webinars.



## Deployment

Zebra offers a portfolio of services to help you with deploying technology across your operation. Starting with implementation and operational planning for pilot, Zebra sets you up for success – from staging and installations to audit and troubleshooting.



## Support & Visibility Services

Availability and visibility of Zebra's products are keys to the success of your business and the performance of your critical business processes.

[Zebra OneCare Support Services](#) maximize availability and business operations while helping you avoid unexpected repair expenses. Multiple service levels and options available to meet your requirements.

[Zebra Visibility Services](#) maximize uptime, performance and ROI of your critical assets and help you optimize your business operations. *Asset Visibility Service (AVS)* and *Operational Visibility Service (OVS)* give you the tools to gain insight into asset location, inventory and performance to help you improve business outcomes across your enterprise

# About Zebra Technologies

Zebra provides unparalleled operational visibility for enterprises to become as smart and connected as the world we live in. Real-time information – gleaned from visionary solutions including hardware, software and services – gives organizations the competitive edge they need to simplify operations, know more about their businesses and customers and empower their mobile workers to succeed in today's data-centric world.

FIND OUT MORE ABOUT OUR TRANSPORTATION & LOGISTICS SOLUTIONS AT [ZEBRA.COM/TL](https://www.zebra.com/TL)



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