ZEBRA CAPTURE YOUR EDGE

Enhancing Productivity and Ensuring Seamless Communications with Hands-Free Wearable Solutions

How the next generation of hands-free Zebra devices can enable better work processes across verticals, from warehousing and logistics to retail and hospitality

More Applications Across More Verticals

Expanding the use cases for wearable technologies

The future of wearable enterprise technology is here. In a competitive marketplace, companies of all types face mounting pressure to do more with less and are turning to mobile technology to improve agility while lowering operating costs.

Zebra is at the forefront of wearable form factors on the market. The WS50 Android wearable computer, the latest in Zebra's family of wearable devices, puts the power of a mobile computer on the worker's wrist to connect them with the resources they need to keep workflows moving, and customers satisfied.

Unmatched Capabilities in a Single Device

The WS50 is designed to transform the many disconnected workers in warehouse, transportation and logistics, retail and hospitality into a fully connected and highly productive workforce. As the world's smallest Android enterprise-class wearable mobile computer, its game-changing platform adapts to a wide range of applications and is intuitive to use for most workers.

What's more, its versatile computing core offers a modular design with three mounting options (wrist, back of hand or two-finger) that enable businesses to get the best fit for their unique use case and environment. This flexible design means our customers can right-size their investment when it comes to the types of wearables they introduce to their workforce.

Unlike traditional ring scanners, the WS50 is a true one-piece wearable solution. Because it does not require a connection to a mobile computer, the device is a more accessible investment for enterprises to roll out across workers of all types.

Purpose-Built for Enterprise Performance

Consumers have embraced wearables and brought the technology into the mainstream, from health-tracking rings to smartwatches. However, there are significant differences between consumer wearables and those designed for use at the enterprise level. Zebra's application partners take the WS50 to the next level, meeting a variety of enterprise needs with ruggedized hardware that can stand up to heavy use in environments ranging from from manufacturing plant floors and warehouse loading docks to retail stores, restaurants, hotels, and more. The opportunities are virtually limitless.

Wearables Experience Staggering Growth

BY 2026

67%

67% of supply chain and manufacturing leaders will adopt wearable technology.[1]

96%

96% of retail decision makers are planning to deploy wearables in their business.[2]

[1] MHI and Deloitte, "2021 MHI Annual Industry Report," 2021.
[2] Zebra Technologies, "14th Annual Global Shoppers Vision Study," 2021.

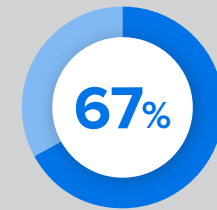WAREHOUSING MANUFACTURING TRANSPORTATION & LOGISTICS RETAIL HOSPITALITY

Demand for wearable technology is growing across industries as enterprises seek hands-free solutions to increase operational efficiency and enable better communications.
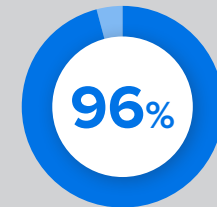
PARTNERS

Cutting-Edge Applications Take Enterprise Operations To New Heights

It is more important than ever for organizations to leverage new mobility and edge technology-driven workflows to transform their operations. Thanks to Zebra's alliances with leading application developers, an ecosystem of impressive mobile applications for the WS50 has already emerged. With capabilities ranging from task management to order picking to employee communications, Zebra's early adopter partners can help enterprises quickly evolve along with the speed of technology.

Aucobo

Revolutionizes communications and collaboration on the shop floor. Provides an intelligent collaboration solution for industrial wearables that enables workers to self-optimize the distribution and processing of production, logistics, and maintenance tasks. Enables faster response times, a reduction in unplanned downtime, more accurate documentation, and a sustainable increase in productivity.

aucobo.de/solutions-for-zebra-wearables

Instant Connect

Provides push-to-talk voice communications and workflow automation for frontline teams. The company's ICE software platform creates a unified voice environment that enables workers to communicate across any device or network. ICE delivers dynamic talk groups that leverage data, IoT, business rules, systems, and smart geofences to automatically trigger workflows and create instant talk groups.

instantconnectnow.com

Invanti Wavelink

Provides mobile enterprise solutions to empower transportation, logistics, manufacturing, healthcare, and retail industries to drive operational efficiency in complex supply chain environments. The company's terminal emulation solution extends enterprise systems to workers' mobile devices streamlining supply chain processes and warehouse operations while minimizing the risk of disruption to the business.

ivanti.com

StayLinked

Improves enterprises' speed, reliability, and productivity with one of the industry's most advanced terminal emulation solutions. The Evolve integration platform enables companies to take their existing investment in TE-based systems to a whole new level. Now customers can quickly and easily integrate new technologies into their current warehouse management system (WMS), improving productivity and efficiency.

staylinked.com

Sysdev

Specializes in the creation of development tools and apps for mobile devices in the techno-industrial area. Sysdev's expert software development team provides integrated solutions and development tools that improve processes and the effectiveness of mobile solutions. The platform helps companies create mobile apps without requiring an expert programming team, and with low code or no code, mobile apps can be quickly created.

kalipsostudio.com

TaskWatch

Delivers custom process automation and connected worker capabilities on wearables through a zero-code cloud platform. Workers can respond on hands-free devices to business events identified via AI/computer vision, IoT sensors, software systems, ERP systems, and more. TaskWatch initiates collaborative workflows between connected workers to enhance efficiency, mitigate risks and gain insights into operational details.

TaskWatch.com

Workerbase

Offers a workflow and task management system that allows businesses to build apps for any Zebra device without the need to do any programming. Using a powerful business logic framework, apps can be easily connected to any existing system. A range of pre-made apps allows for fast deployment, and apps can also be created from scratch in a few hours. If required, the system can be freely extended with custom code.

workerbase.com

WAREHOUSING

Integrated Features for Optimized Warehousing

There's no such thing as too fast in today's warehousing landscape. Wearables can help speed up task-based workflows so workers can work smarter, not harder. That translates into less time waiting for instruction on what to do next or thinking on their feet when trying to solve a problem and more time getting things done. Combined with powerful task management and communication applications, the WS50 gives workers all the information they need when they need it.

KEEPING YOUR TEAM CONNECTED AND COORDINATED

Constant Communications
Communication within a warehouse can be a significant challenge for teams fanned out across expansive facilities. The underlying advantage of any wearable has always been hands-free picking — but in the case of the WS50, its enablement of communication via Push-to-Talk (PTT) or a connected Bluetooth headset is game-changing.

Task Management
The WS50 wrist-mounted module allows supervisors to push messages to workers without physically tracking anyone down or requiring workers to carry multiple devices. Workers can respond to text or voice communications confirming receipt and completion of tasks.

Picking
Workers equipped with the WS50 can get real-time picking instructions, using the same device on their finger/ring or the back of their hand to scan items or shelf tags. With hands-free capabilities, workers have more flexibility and can easily reach into tight picking booths. As robotics become an increasingly important part of the warehouse environment, workers can also use the device to call for the support of an automated mobile robot (AMR).

Item Sorting & Put-Away
Workers can use the WS50 converged scan feature to efficiently move goods from the receiving zone to the warehouse shelves. The two-inch display on the WS50 converged back of the hand mount provides line-of-sight instructions to workers on the proper bin locations for scanned items. The screen is the ideal size for a clear display of information while remaining ergonomic to wear for the duration of a shift.

**KEY APPLICATIONS
FOR WAREHOUSING**

- Sorting
- Put Away
- Picking
- Loading and Unloading
- Task Management

MANUFACTURING

Supercharging the Manufacturing Workforce

To compete in today's market, manufacturing operations need to achieve faster cycle times, increase visibility, and maintain product quality, all while meeting compliance and keeping the workforce safe on the job. Zebra's WS50, paired with the right enterprise applications, enable manufacturers to see more, know more and do more to become more agile, optimize plant floor performance and embrace market changes.

ALL-IN-ONE TECHNOLOGY FOR STREAMLINED ASSET & FACILITY MANAGEMENT

Task Management
The voice-centric WS50 devices allow floor supervisors to push messages and tasks to any worker, no matter where they are within the facility. Workers can then confirm completion of each task.
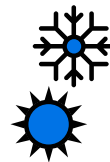
Line Side Replenishment
Materials managers wearing the WS50 on thier wrist can receive alerts of low component stock on the assembly line, enabling restocking without slowing down the flow of operations.

Equipment Maintenance
The WS50 allows maintenance workers to monitor equipment status dashboards while on the go, rather than tethering them to a desktop or larger device. The ergonomic device can receive alerts when machinery needs repair, helping avoid costly downtime.

Rugged Performance
Designed to survive and perform even in challenging manufacturing environments, the WS50 supports -10°C to +50°C operations.

KEY APPLICATIONS FOR MANUFACTURING

- Sorting
- Put Away
- Picking
- Loading and Unloading
- Task Management

TRANSPORTATION & LOGISTICS

Getting Ahead with Future-Proofed Fulfillment

With Zebra and our suite of application partners, enterprises can experience more dynamic fulfillment and realize transformational changes. With integrated scanning and the power of a mobile computer in a device that fits on the worker's wrist, the WS50 hardware and software can be configured for the needs of any logistics operation or use case. From staging and loading to unloading and sorting, more connectivity means more agility to streamline cross-docking workflows. What's more, there is an added benefit to wearable devices that can't be easily left somewhere like the back of a truck leaving the facility.

A CLEAR LINE OF SIGHT INTO ALL YOUR TASKS

Task Management
Equipped with an all-in-one data capturing device, workers can receive tasks and messages from managers no matter where they are located.

Staging
The WS50's two-inch screen size is optimized to deliver line of sight on-screen instructions for workers to ensure they are placing the correct package on the proper conveyor.

Truck Loading
When loading a truck, the WS50 converged scanner on the finger mount supports high-intensity scanning, with audio, haptic, and visual feedback for good versus bad load. The worker receives voice-directed instructions to ensure every package is loaded on the proper truck.

Sorting
Workers can scan boxes with the converged scanner on the WS50 wrist mount and receive on-screen instructions identifying the proper bin for each package or item, ensuring everything gets to where it needs to go, as quickly as possible.

**KEY APPLICATIONS
FOR TRANSPORTATION & LOGISTICS**

- Cross Docking
- Sorting
- Loading
- Unloading
- Task Management

RETAIL

Keeping Up with Consumer Expectations

According to Zebra's 2022 Shopper Vision Study, consumers are looking for more options for retail fulfillment: 60% of those surveyed said they expect retailers to let them pick up items in store, curbside, or in another location as a locker or kiosk.[3] Wearable devices enable faster, more accurate picking when fulfilling orders from the store. On store floors, the WS50 also connects workers for easy task management, for example, alerting them that a shopper needs assistance or directing them to a spill or accident location.

SEAMLESSLY CONNECTING THE SALES FLOOR AND THE BACKROOM

Task Assignment & Completion
With the WS50, store supervisors can push messages and tasks to any worker — without having to physically track anyone down. When workers receive an urgent task request, they can quickly confirm receipt and job completion.

Constant Communication
The WS50 supports PTT, allowing voice communication between workers via the embedded speaker and microphone or a Bluetooth headset. Outfitted with these powerful wearables, sales associates can contact the backroom to request an item or get help from another associate on the floor without leaving the customer's side.

Price Management
The WS50 helps associates keep on top of real-time price changes, enabling them to send new labels via a wireless connection to a printer.

Back of Store Inventory Operations
The WS50 supports scan-intensive tasks such as moving inventory from the loading dock to the backroom or the sales floor.

KEY APPLICATIONS FOR RETAIL
- Pricing
- Product Markdowns
- Back of Store Operations
- Task Management

[3] Zebra Technologies, "The Next Wave of Retail Fulfillment," 2021.

HOSPITALITY

Making Guests' Visits Worth the Trip

Running a hotel is a complicated operation requiring the orchestration of many moving parts to deliver next-level customer experiences. From the back of the house operations — including receiving personnel, serving assistants, and housekeeping staff - to the front of the house — such as floor managers, hotel porters, and room service attendants, wearable technology can help keep hotel staff in seamless communication with one another so each request can be sent, seen, and completed without a hitch.

ENABLING 5-STAR SERVICE

Task Management
Within a hotel environment, the front desk can push messages and tasks to any worker throughout the facility, such as a request to a bellman to help a guest with their luggage. For larger establishments, this can help avoid time wasted waiting for a staff member to reach their desk.

Housekeeping Requests
Wearables can also keep housekeeping staff in direct connection with guest needs. A team member can receive requests for guest towels, for example, using the device to confirm receipt and task completion.

Maintenance Requests
The WS50 devices and workforce communication applications allow disparate teams to remain in close contact, solving problems as soon as they arise. For example, housekeeping staff could utilize PTT to contact maintenance if they encounter issues like a leaky sink.

Food Service
Hotels can win over the hearts and stomachs of guests with fast room service fulfillment. With a WS50 device on their wrist, food service workers can receive on-screen delivery instructions and complete deliveries at top speed.

Inventory Management
Large hotels intake an array of deliveries, from foodservice and cleaning supplies to linens and laundry. If individual items are equipped with a barcode, an employee with a WS50 at the receiving dock can quickly scan each one for a more efficient and accurate count of supplies on hand at any given moment.

**KEY USERS
IN HOSPITALITY**

- Restaurant Servers
- Room Service Attendants
- Housekeeping
- Janitorial Service
- Bellman

Applications for the Future of Mobility

At Zebra, we are leading the development of enterprise-level solutions. Together with applications from our distinguished ISV partners, our vision is to drive faster, smarter workflow decisions by more users across the business. With a choice of modular configurations to fit your enterprise's needs, the WS50 line of purpose-built wearable devices is designed to help your workforce stay in touch and in control in virtually any situation or environment.

To learn more about Zebra's WS50 wearable devices or ISV partners, visit **www.zebra.com/ws50**

If you are an independent software developer interested in learning more about Zebra's PartnerConnect program, visit **www.zebra.com/us/en/partners/partnerconnect/ independent-software-vendors.html**

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