WS301

Connect your unserved workers with the right-sized, right-featured, right-priced most compact Android enterprise mobile computer

Give your offline frontline workers the real-time connection they need to increase productivity, workflow efficiency and the quality and speed of your customer service with the WS301. Unlike consumer look-alikes, the WS301 is all business, with enterprise-class features, durability, manageability, security and complete interoperability with Zebra mobile computers, software and tools. Workers can place and receive push-to-talk calls to one person or a group, capture barcodes to look up item information, capture photos to document damaged returns and easily manage and update the status of tasks, And the hands-free voice-first interface makes it easy for workers to simply ask for what they need. Boost productivity and the customer experience with the WS301—the most compact Android enterprise mobile computer with big enterprise functionality.

Enterprise-class flexibility, interoperability and manageability

Zebra's proven Android platform
With its common platform, the WS301 fits right in with all your Zebra mobile devices. You get the latest version of Android, plus support for future versions. And you can add features that turn Android into an enterprise-class operating system with Zebra's Mobility Extensions (Mx).

Easy centralized management
Manage the WS301 with the same EMM you currently use to manage your other Zebra mobile devices. And with Zebra OEMConfig, your EMM can support every WS301 feature, the moment you take your device out of the box.

So little—but so easy to find
Find misplaced devices easily with Zebra Device Guardian.

Always in service with a removable battery
You never need to take the WS301 out of service for charging. With 10 hours of battery power, there's no need for battery changes during a shift. And fast charging ensures fully charged batteries are always ready at the start of every shift.

Comprehensive enterprise-class features

Wear it your way
Clip it on a lapel, apron, shirt pocket or belt; or wear it on a wrist like a watch.

The miniature Android computer that's virtually weightless
This wearable computer is barely three ounces in the clip or wristband, about two inches square and just over a half inch thin.

Voice-first interface
This little device is built from the ground up to be voice-driven. Users can speak naturally to wake the device, place a call, get a task, change the volume and much more. Two internal microphones with noise suppression and echo cancellation plus a speaker that faces up towards the user provide crystal clear voice quality.

Wi Fi 6 CERTIFIED

Connect all of your disconnected frontline workers to take collaboration, productivity and customer service quality to the next level with the WS301—the world's most compact enterprise-class Android mobile computer.
For more information, please visit www.zebra.com/ws301

And you can use a Bluetooth cordless or wired headset—it's your choice.

Capture barcodes, photos and videos

The 13 MP top facing camera makes data capture easy. Workers can look up an item barcode to check stock, take a photo of a damaged returned item, and more.

Improve safety with a dedicated Duress button and safety-cam

One press of the dedicated programmable red Duress button can execute whatever action you define—for example, automatically place a video call to a security guard, providing the real-time view needed to determine the best response to an emergency situation.

Customizable buttons for maximum ease of use

The PTT and volume buttons are on the same side, easily accessible with one finger. And buttons can perform application specific functions based on the screen that is displayed.

Designed for work

The rugged WS301 is drop-proof, tumble-proof and waterproof, able to handle 4 ft. drops, 1,000 tumbles, spilled coffee and more.

2 inch advanced AMOLED color display

The bright screen offers vibrant colors, true blacks, crisp text, fast no-wait screen refresh rates and the ability to see and read the screen, even at extreme angles.

Never miss a notification

With audio and vibration feedback, workers will always know whether data capture is successful, when a new text message or task arrives and more—even in noisy environments.

Simply tap to connect to peripherals

With Bluetooth 5.3 and NFC, workers can just tap to pair with headsets, printers and more.

No-drop Wi-Fi connections

Wi-Fi 6 and Zebra Fusion work together to deliver high-performance connections your workers can count on—especially crucial for voice calls.

Superior lifecycle support

When it comes to services, we've got you covered.

Zebra offers services to support every phase of deployment. Professional Services can help with staging and kitting, and create and apply a Gold Build to your devices. Zebra OneCare maintenance plans cover it all—accidental damage, device functional failure, and normal wear and tear—and you can choose the right plan based on the repair turnaround time, live agent support hours and options that are right for your business. Prevent cyber attacks with LifeGuardTM for AndroidTM, which provides timely OS updates to stay on top of emerging security threats. Round out your protection with VisibilityIQ Foresight. This easy-to-understand color-coded dashboard displays device analytics that allow you to spot and address developing device issues before they result in downtime that impacts work productivity.

A true enterprise-class lifecycle

The WS301 is available for sale for four years, with maintenance services available for a total of eight years, eliminating the complexities of multi-model deployments—and providing a return on investment that is in a class of its own.

Enterprise-class accessories

Everything you need for your workers—and your backroom

User accessories include clip mounts, wristbands, screen protectors and USBC charge cables for anytime, anywhere charging. Backroom management is easy with flexible multi-slot ShareCradle chargers that can accommodate the WS301, its batteries and other Zebra devices.

Expand functionality with proven enterprise software

Enable real-time collaboration, quickly and easily

Turn the WS301 into a real-time communication tool with Workcloud Sync. Empower your frontline with push-to-talk, voice, and video calling, multimedia chat and to-dos, enabling easy collaboration and improving productivity and customer service.

Task management made easy with Zebra's Workcloud Task Management

With the press of a button, you can automate task assignment, monitor task completion status, adjust task priority and more.

Everything is easier with Zebra DNA

Easily set up, secure, manage and optimize your WS301 devices to improve device uptime, performance, usability and workflow efficiency. Zebra DNA is the industry's only software suite that simplifies every stage of mobile device lifecycle. And you can easily manage your Zebra DNA tools with Zebra DNA Cloud.

Specifications

Physical Characteristics

Dimensions	Device: L x W x D: 2.20 x 1.89 x 0.59 inches (56 x 48 x 15 mm) Device in Clip Mount: L x W x D: 3.39 x 2.09 x 1.14 inches (86 x 53 x 29 mm) Device in Wrist Mount: L x W x D: 2.52 x 2.05 x 0.59 inches (64 x 52 x 15 mm)
Weight	Device: 2.08 oz. (59 g) Device in Clip Mount: 3.07 oz. (87 g) Device in Wrist Mount with standard strap: 3.10 oz. (88 g)
Display	2 inches AMOLED 460 x 460 color display; optically bonded to touch panel
Camera Window	Corning® Gorilla® Glass
Touch Panel	Capacitive touch panel; fingertip and glove support; Corning® Gorilla® Glass
Power	2.91 Wh; 750 mAh; PowerPrecision+
Network Connections	USB 3.1 Superspeed (host and client), WLAN and Bluetooth
Notifications	Audible tone; charge and OS notification LED, haptic feedback
Voice and Audio	Speaker (90dBA); two internal mics with noise and echo cancellation; Bluetooth headset support; 3.5 mm PTT headset support (when in clip mount)
Buttons	Multifunction button (programmable), defaults to PTT button while in mount and scan button when not in mount; volume buttons; Duress button (programmable)
Interfaces	Docking contacts for charging; USB 3.1 Type C host/client and charging Wrist: Compatible with off-the-shelf 26 mm wrist straps

Performance Characteristics

CPU	Qualcomm® QC2290
Operating System	Android; for supported Android versions, visit: www.zebra.com/android-versions
Memory	4 GB RAM/64 GB Flash

User Environment

Operating Temperature	+14°F to +122°F (-10°C to +50°C)
Storage Temperature	-40°F to +158°F (-40°C to +70°C)
Humidity	5% to 95% non condensing
Drop Specifications	4 ft. (1.21 m) drop to concrete across operating temperature
Tumble Specifications	1,000 tumbles @ 1.6 ft. (0.5 m) meets and exceeds IEC tumble specifications
Sealing	IP65
Vibration	4 g's PK Sine, 5 hz to 2 khz, 1 hour duration per axis; 0.04 g 2/Hz Random (20 Hz to 2 kHz), 1 hour duration per axis
Electrostatic Discharge (ESD)	+/-15 kV air discharge, +/-8 kV direct/indirect discharge

Interactive Sensor Technology (IST)

Light Sensor	Automatically adjusts display backlight brightness
Motion Sensor	6-axis accelerometer with MEMS Gyro

Data Capture

Camera	Top Facing: 13 MP Auto-Focus Front Facing: 5 MP fixed focus, 120° FOV
NFC	Tap to Pair, ISO 14443 Type A and B, Felica and ISO 15693 cards

Wireless LAN

Radio	IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w/mc/ax; Wi-Fi 6; 2x2 MU-MIMO; Wi-Fi™ certified; IPv4, IPv6
Data Rates	5G Hz: 802.11a/n/ac/ax—20 MHz, 40 MHz, 80 MHz-up to 1201 Mbps 2.4 GHz: 802.11b/g/n/ax—20 MHz up to 286.8 Mbps
Operating Channels	Channel 1-13 (2412-2472 MHz): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 Channel 36-165 (5180-5825 MHz): 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144, 149, 153, 157, 161, 165 Channel Bandwidth: 20/40/80 MHz Actual operating channels/ frequencies and bandwidths depend on regulatory rules and certification agency.
Security and Encryption	WEP (40 or 104 bit); WPA/WPA2 Personal (TKIP, and AES); WPA3 Personal (SAE); WPA/WPA2 Enterprise (TKIP and AES); WPA3 Enterprise (AES)—EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC, LEAP and EAP-PWD; WPA3 Enterprise 192-bit mode (GCMP256) - EAP-TLS; Enhanced Open (OWE)
Certifications	WFA (802.11n, 802.11ac, 802.11ax, WPA2-Personal, WPA3-Personal, WPA2-Enterprise, WPA3- Enterprise, PMF); Wi-Fi 6; Agile Multiband

Wireless PAN

Bluetooth	Bluetooth 5.3; Classic Bluetooth Basic Rate (BR)/Enhanced Data Rate (EDR) and Bluetooth Low Energy (BLE) support; Class 1

Warranty

Subject to the terms of Zebra's hardware warranty statement, the WS301 is warranted against defects in workmanship and materials for a period of one (1) year from the date of shipment. For complete warranty statement, please visit www.zebra.com/warranty

Recommended Services

When supported by Zebra OneCare™ Essential or Select maintenance plans, our customers experience improved operational efficiency. Our maintenance plans ensure minimal downtime through efficient depot repair or advanced device replacement, while technical support and software maintenance keeps your business running smoothly. LifeGuard updates and Device Diagnostics further secure and optimize your operations.

Markets and Applications

Retail

• Hands-free customer assistance
• Push-to-talk (PTT) communication for team coordination
• Item lookup for inventory management
• Task assignment and management

Hospitality

• Hands-free guest service requests
• PTT communication across departments
• Item lookup for guest needs
• Task management for event coordination

Light Manufacturing

• Hands-free workflow execution
• PTT communication for team collaboration
• Item lookup for inventory management
• Task management for shift operation

Recommended Services

Included with every Zebra OneCare maintenance plan, our cloud-based VisibilityIQ™ OneCare provides comprehensive insights into repairs, cases, contracts and LifeGuard reports, empowering you to make informed decisions for better operational outcomes.Zebra's optional VisibilityIQ™ Foresight complements your Zebra OneCare maintenance plan. This service provides a comprehensive view of device performance that allows you to proactively address device issues—before they impact your operations. Critical device intelligence is consolidated into a single, intuitive dashboard, enabling you to identify areas for improvement and make informed decisions that boost productivity. By offering actionable insights, Zebra Visibility IQ Foresight helps streamline workflows, ensuring that your operations run efficiently and effectively.

Software

Zebra DNA for Mobile Computers empowers businesses to achieve peak performance with exceptional accuracy and reliability. Zebra DNA allows workers to complete work faster, smarter and better, shift after shift, inside or outside of the four walls. For more information visit www.zebra.com/zebradnaZebra DNA for Mobile Computers is available on Android only. Features may vary by model and a Support Contract may be required. For more information on these Zebra-only features and for the most recent list of supported apps, please visit: https://techdocs.zebra.com/dnamobilecomputers/

Footnotes

Specifications subject to change.

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