WT6300 Wearable Computer

The ultimate industrial wearable computer for hands-free mobility

With the explosion of ecommerce, picking and sorting have become full time jobs, not only in the warehouse, but in the retail store, where orders placed online need to be ready for pickup in as little as two hours. Empower your pickers and sorters to handle it all with the hands-free WT6300. Building on Zebra's WT6000, the WT6300 offers new features that take productivity and order accuracy to the next level. A new keypad option provides a familiar interface for manual keyed input. Get lightning fast application performance with more processing power, RAM and Flash memory. It is rugged and ready for the toughest environments, including the freezer. Improved WiFi support delivers 'no-drop' dependable connections. Users get maximum Bluetooth peripheral performance and range with Bluetooth 5.0. Connect a Zebra Bluetooth ring scanner and HD4000 Head-Mounted Display for a complete solution. Plus, users can capture photos via a paired Zebra ring scanner to document proof of condition on-the-fly. The WT6300 — empowering your workers to keep pace with the e-commerce explosion.

Purpose-built industrial wearable computer

Superior ergonomics for unmatched hands-free comfort
The WT6300 is a dedicated wearable device built for maximum all-day comfort. It is one of the lightest devices in its class. Purpose built for wearability, the WT6300 has a very low center of gravity, minimizing muscle effort and worker fatigue — unlike a handheld mobile computer placed into a wrist mount. And the best-in-class mounting system delivers unmatched comfort and eliminates pressure points — micro-adjustability enables a perfect custom fit on virtually any arm, all with the simple turn of a knob.

Rugged and ready for everyday use in any environment — including the freezer
The WT6300 is dustproof, water-resistant and built to handle the inevitable everyday bumps and drops. Gorilla Glass delivers scratch and shatter resistance on the most crucial and vulnerable device component — the touchscreen display. The WT6300 is the only device in its class rated for freezer use, with a battery rated for operation at -22° F/-30° C. And it is drop-tested across the entire temperature range — crucial in freezer environments, where plastics become very brittle.

Advanced glove-optimized rugged display
Many of your workers wear gloves — that's why the display automatically detects gloves and adjusts touch sensitivity as needed. The display works even when wet. And workers can use the many gestures they already know, such as pinch-to-zoom and swipe.

Hot swappable powerful batteries
The WT6300 is the only wearable device in its class to offer an extended battery to power longer shifts. The standard and extended battery are hot swappable, allowing users to change batteries on-the-fly, right in the middle of fulfilling an order — no need to power down or close applications. The PowerPrecision+ batteries provide metrics for better battery management. View battery metrics in the complimentary Mobility DNA PowerPrecision Console app to instantly spot and remove aging batteries that can no longer hold a full charge — before they impact user productivity.

Keep pace with the ecommerce explosion with the industrial wearable computer that maximizes user comfort and productivity — the WT6300.
For more information, visit www.zebra.com/wt6300

Disinfectant-ready to protect your workers

Shared devices can easily spread germs that can cause serious illness between workers. That's why the WT6300 is built to handle frequent wipedowns with common disinfectants, including isopropyl alcohol and soap and water.

Easy and cost-effective migration from Windows CE and legacy wearable mobile computers

Support key-based apps with an optional keypad

With the phase-out of support for Microsoft's Windows CE, it is essential to migrate to a new device to ensure continuity of operations. The WT6300 keypad option makes it easy to migrate to Android. You don't need to change the look and feel of your application screens or your user workflows, minimizing user re-training efforts, while maximizing future proofing. And since there's no need for an on-screen soft keyboard, the entire display is available for more information-rich application screens.

Backwards compatibility with WT6000 accessories

Cost-effectively upgrade to the next generation in wearable mobile computers while protecting your WT6000 investment — you can use the WT6000 accessories you own today with your WT6300, including batteries, cradles, ring scanners, cables and headsets.

Everything your workers need to maximize productivity

Zebra's most powerful 'ultimate series' Android platform

The advanced processor delivers desktop-like performance on even the most demanding applications, all with less power for longer battery cycle times. Future-proof your devices with Android 10 and a pathway to future Android versions. If you already have or are planning to purchase other Zebra devices, the shared platform makes device deployment and management easy. In addition, the WT6300 has a 10-year lifecycle, available for sale for five years and serviceable for an additional five years — so the device you buy today is available to support your growing workforce. And throughout these 10 years, you get the OS and security patch updates you need to keep your devices and data secure with LifeGuard™ for Android™ .[1]

More peripheral functionality, flexibility and simplicity with Bluetooth and NFC

Get maximum Bluetooth peripheral performance with Bluetooth 5.0, offering twice the speed and four times the range of the prior version, Bluetooth 4.0. Pair Bluetooth ring scanners, headsets and more with a single tap using NFC. Bluetooth Low Energy (BLE) requires less power, enabling longer WT6300 battery cycle times. The WT6300 is the only device in this class to support Bluetooth Class 1 to connect to peripherals up to 328 feet/100 meters away — ideal for printers. And users and IT can easily manage, troubleshoot and find misplaced Bluetooth peripherals with Device Central, a free Mobility DNA tool.[2]

Capture new business intelligence with high resolution photos

A Zebra ring scanner connected to the WT6300 can capture photos for indisputable proof of condition — such as an incoming pallet with ripped shrinkwrap or a returned item that is damaged.

Fast 'won't drop' high-performance WiFi connections

Stay connected with unmatched, fast and dependable 'wired-quality' WiFi connections that deliver near instant application response times with Zebra's Fusion, 2x2 MU-MIMO support and WorryFree WiFi.

Create a complete solution with ready to use hardware and software applications

Easily add instant push-to-talk communications

With Mobility DNA's optional Workforce Connect PTT Express, you can easily connect your workforce, so workers can get instant answers to questions and supervisors can improve task management.

Get industry-best scanning performance and simplicity

Give your workers first-time every time scanning of virtually any barcode in any condition with a Zebra corded or cordless ring scanner. Improve productivity with Multi-Barcode Scanning, a complimentary Mobility DNA app, enabling the capture of multiple barcodes on an item or pallet with a single press of the scan trigger — no need to remember the correct scanning order or cover up nearby barcodes to ensure the right barcode is captured.

Pick 24% more orders with new dynamic workflows

Zebra's FulfillmentEdge application dynamically aggregates the work orders in your backend systems to enable one person to complete multiple work orders, all in one trip through the warehouse. When workers are wearing a WT6300 connected to Zebra's HD4000 Head-Mounted Display and a Zebra ring scanner, you can maximize worker productivity by projecting information directly into a worker's line of sight via the HD4000 — such as step-by-step directions to the next pick location and a photo of the item. A quick scan of the item's barcode enables verification of pick accuracy. And the system is so easy to use that training and onboarding time is reduced by 90%.

Specifications

Physical Characteristics

Dimensions	4.7 in. L X 3.5 in. W X .7 in. D and 1.3 in. (D) 121 mm L X 89 mm W X 20 mm D and 34 mm (D)
Weight	9 oz./256 g (standard battery) 11 oz./312 g (extended battery)
Display	3.2 in. WVGA (800x480); LED backlight; color display; optically bonded to touch panel
Touch Panel	Capacitive touch panel; fingertip and glove support; conductive stylus support; Corning™ Gorilla™ Glass
Power	Standard battery — 3350 mAh Extended battery — 5000 mAh/freezer rated PowerPrecision+ battery; hot swap
Network Connections	WLAN, WPAN (Bluetooth), USB 2.0 (high speed client and host)
Notifications	Audible tone; multi-color LEDs; haptic feedback
Keypad	On-screen keypad; three programmable function keys; optional alphanumeric and function keyboard accessory
Voice and Audio	Integrated speaker and mic; PTT[3] voice support wired and Bluetooth headset support; 3rd party VDP client support
Buttons	Volume up, volume down, enter; programmable

Performance Characteristics

CPU	Qualcomm Snapdragon™ 660 octa-core, 2.2 GHz
Operating System	Upgradeable to Android 14
Memory	3 GB RAM/32 GB Flash
Security	Product is FIPS 140-2 validated. This security feature can be enabled on select configurations through a custom SKU request. Product supports Secure Boot, Verified Boot

User Environment

Operating Temp.	-22° F to 122° F/-30° C to +50° C
Storage Temp.	-40° F to 158° F/-40° C to +70° C
Humidity	5% - 95% non condensing
Drop Spec.	Multiple 4 ft./1.2 m drop to concrete across operating temperature per MIL-STD 810G
Tumble Spec.	1,000 tumbles @ 1.6 ft./0.5 m; meets and exceeds IEC tumble specifications
Sealing	IP65 per applicable IEC sealing specifications
Vibration	4g PK Sine (5Hz to 2kHz); 0.04g 2/Hz Random (20 Hz to 2 kHz); 60 minutes duration per axis, 3 axis
Electrostatic	+/-15 kV air discharge, +/-8 kV direct/indirect

Wireless PAN

Bluetooth	Bluetooth 5.0; Bluetooth Low Energy (BLE) support; Class 1

Warranty

Subject to the terms of Zebra's hardware warranty statement, the WT6300 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

Support Services: Maximize device availability, operational efficiency, and security updates with Zebra OneCare™ Essential or Select services. Protect your investment with depot repair or advanced device replacement, technical support, software and support, LifeGuard updates, Device Diagnostics and included cloud-based VisibilityIQ™ OneCare™ for insight into repair, case, contract, LifeGuard reports and more.
Zebra VisibilityIQ™ Foresight: With 24+ reports, this optional business intelligence service aggregates device data onto a single, color-coded, cloud-based pane of glass, letting you know how your devices are performing, so you can decide what next steps you can take to improve your operations, maximize productivity and provide actionable insight to streamline workflows.
Video on Device: Pre-loaded, it is a secure and consistent way to enable your staff with on-device training. Deliver video content to your associates with the basic VoD app that will put the right content on the palm of their hands, including how to clean and sanitize the device.

Footnotes

1. Android security updates are provided through Zebra's LifeGuard™ for Android™, a part of every Zebra support contract. A valid Zebra OneCare support contract is required to access LifeGuard's entitlements and features.

2. Paging function is available only on supported Bluetooth peripherals that have the capability to generate a beep tone.

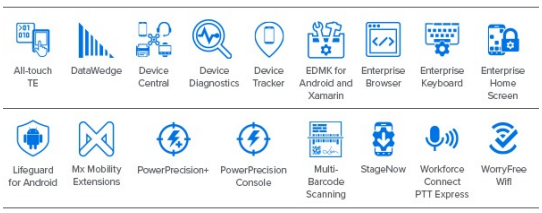
3. Push-to-Talk (PTT) is not supported in all countries. Please consult with your Zebra representative to determine if PTT is supported in your country.

For details related to Common Criteria support, please visit: www.zebra.com/commoncriteria

Mobility DNA

Mobility DNA solutions help you get more value out of our mobile computers by adding functionality as well as simplifying deployment and management of our mobile devices. For more information on these Zebra-only features, please visit www.zebra.com/mobilitydna

Mobility DNA 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://developer.zebra.com/mobilitydna



Markets and Applications

Warehousing/Distribution/Transportation and Logistics

- Receiving
- Picking
- Carton put away
- Replenishment
- Packing
- Staging
- Truck loading/unloading
- Returns management

Retail

- Back of store warehouse management
- Front of store picking for online orders
- Price audits/changes
- Store receiving
- Inventory management
- In-store communications

Manufacturing

- Inventory management
- Line-side replenishment
- Parts tracking

User Environment

Discharge (ESD)	discharge

Interactive Sensor Technology (IST)

Motion Sensor	3-axis accelerometer with MEMS Gyro

Data Capture

Scanning	Corded ring scanners: RS4000 and RS5000 Bluetooth ring scanners: RS5100 and RS6000 with NFC tap to pair
NFC	ISO14443 Type A and B: FeliCa and ISO 15693 cards. P2P mode and Card Emulation via Host (HCE) support

Wireless LAN

WLAN Radio	IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/w/v/mc; 2x2 MU-MIMO Wi-Fi™ certified; Dual Band Simultaneous; IPv4, IPv6
Data Rates	2.4GHz: 802.11b/g/n — 20MHz, 40MHz - up to 300 Mbps 5GHz: 802.11a/n/ac — 20MHz, 40MHz, 80MHz - up to 866.7 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 (5180-5825MHz): 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 (GCMP-256) — EAP-TLS; Enhanced Open (OWE)
Certifications	WFA (802.11n, 80211ac, WPA2-Personal, WPA3-Personal, WPA2-Enterprise, WPA3-Enterprise, WPA3-Enterprise 192-bit mode, WMM, WMM-PS, PMF, WiFi Direct, WMM-AC and Voice Enterprise)
Fast Roam	PMKID caching; Cisco CCKM; 802.11r (Over-the-Air); OKC

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