WT5400 Wearable Computer

Bring comfort and productivity to all-day hands-free retail workflows

If you're using handheld computers mounted on the wrist for your hands-free workflows because purpose-built wearable devices seem too expensive or bulky, you're sacrificing productivity. Now you can give your store associates the hands-free freedom and comfort they need to accurately pick more online orders, move inventory from dock to stock faster, re-stock front of store shelves and more with the WT5400 Wearable Computer. The rugged WT5400 is designed from the ground up to be worn on the wrist, providing features that can boost productivity, all at the right price. Innovative ergonomics make wearing the WT5400 practically effortless, virtually eliminating arm fatigue. Versatile wrist straps ensure a custom fit on every arm. The low profile is barely a half inch thick, making it easy to reach into the tightest spaces. And you can choose the cordless wearable scanner that is right for your workflows. Empower your retail workers to get more done every shift with the WT5400 — only from Zebra.



A Zebra first — a wearable computer purpose-built for retail

A purpose-built design that delivers extreme comfort
This compact and lightweight design was built from the ground up to be worn on the wrist. The low center of gravity provides the balance that substantially reduces arm fatigue. And the low profile makes it easier to reach into tight areas.

Choose the wearing style that suits your workers and your budget
Since the universal wrist mount supports all wrist straps, you can mix and match wrist straps to accommodate user preference and use case requirements.

A single button releases the device from the wrist mount with snap-on and snap-off simplicity — so you can give each worker their own wrist mount and wrist strap to prevent the spread of germs. Choose from cost-effective Velcro straps; a single dial strap that is micro-adjustable, allowing workers to simply turn the knob to find a perfect fit without pressure points; and a new dual dial strap that provides a better grip on the arm and a more refined custom fit.

Effortless battery changes
Changing the battery couldn't be easier. The specially chosen angle enables workers to remove and replace the battery with the most natural movement — no need to contort the hand or remove the WT5400 from the arm.

Easy access to NFC for instant pairing
Other wearable computers embed the NFC radio in the battery, making it difficult for users to know where to tap. But NFC is integrated right into the WT5400 and clearly marked, so users can easily tap-to-pair a Bluetooth scanner or headset the first time — no guessing involved.

Keep your workers connected and productive with all the right features

View all the information you need, at a glance
With the large, bright 4.7 inch display, everything workers need to complete a task can fit on one screen, so there's less scrolling, less navigating through application screens — and more work done in every shift.

android enterprise recommended

Wi Fi 6 CERTIFIED

Increase productivity and comfort in all-day hands-free retail workflows with the Zebra WT5400.

For more information, please visit www.zebra.com/wt5400

Built-in reliability — day-in and day-out, it just works

The WT5400 is ready to work, all day, every day. It's drop-proof, tumble-proof, waterproof and dustproof, so you can use it just about anywhere. Since the display is one of the most vulnerable and crucial device features, it's protected with scratch- and shatter-resistant Corning® Gorilla® Glass. And the rugged design is built to last for years, providing an outstanding return on investment.

Make scanning easy with your choice of Bluetooth scanner

The RS2100 is not only the world's smallest enterprise wearable scanner, its 'open palm' design delivers extreme comfort. Need flexibility? The RS5100 offers five interchangeable wearing styles and two scan engine options. Need to scan near — and far? The RS6100 offers an extraordinary scanning range — from near contact to 40 ft (12.2m). Regardless of which Bluetooth wearable scanner you choose, you get the first-time every-time successful capture of virtually every barcode in any condition. And pairing couldn't be easier — all it takes is a tap on the NFC icon.

Get the fastest and most dependable Wi-Fi connections

Ultra-fast Wi-Fi 6E provides more bandwidth, more capacity and the fastest available connections. And Zebra's Mobility DNA Wireless Fusion provides advanced Wi-Fi radio hardware and software features that keep on-the-move workers connected and productive, every minute of the workday.

Power every minute of every shift

The standard battery powers a full shift, while the extended battery enables even longer operation. And the blade connectors self-clean with every battery insertion or removal, improving reliability.

Power all your apps with a fast, next generation platform

The next generation Qualcomm® processor and high memory capacity provide future proofing to support the applications of today and tomorrow. With OS support through Android 17, you can count on access to the latest Android features for years to come. And with Zebra's LifeGuard™ for Android™ [1], you're always in charge of when and how to update Android.

Good for business — and the environment

A responsible and sustainable design that's good for the earth

From manufacturing to packaging, all the way to disposal, the WT5400 is designed for a sustainable life cycle.

These devices are constructed with over 40% post-consumer recycled plastics — and without many major environmental toxins, such as Mercury and PFO/PFOAs. Batteries are easily swappable and replaceable, while battery health insights allow you to replace your battery only when it is needed, reducing waste and unnecessary cost. In addition, the packaging is 90% biodegradable and uses recycled materials.

Simplify everything about your devices for users and IT with Mobility DNA — only from Zebra

Simplify every stage of device lifecycle with Mobility DNA

This Zebra-only comprehensive collection of applications contains many ready-to-use tools at no cost that make the WT5400 easier to integrate, secure, deploy, manage and use. Make device management easier for IT personnel. Make Zebra devices even easier for workers to use with time-saving features that improve productivity and workflow efficiency. And easily deploy and manage all your Mobility DNA applications with Zebra DNA Cloud.

LifeGuard™ for Android™ [1] — your lifetime security guard

Keep your devices secure every day they are in service with LifeGuard for Android. Get the regular and timely OS updates you need to stay on top of emerging security threats, with complete flexibility over the update process: enable automatic zero-touch updates; utilize your EMM to completely control every aspect of the update process or manually update your devices — no EMM required via Zebra's Stage Now Mobility DNA tool. Only migrate to new versions when you're ready, ensuring that you always have ample time to test your apps and make any required updates — before migration.

Easily find missing devices with Device Tracker

Eliminate lost devices and protect your investment with Device Tracker. With cloud-based deployment, you can get Device Tracker up and running quickly and easily for 10 to 100,000 devices. With the click of a button, you can view precise device location on Google Maps. And a simple proximity indicator guides you to the device.

Specifications

Physical Characteristics

Dimensions	5.22 in L x 3.66 in W x 0.55 in D (132.5mm L x 93mm W x 13.97mm D)
Weight	Standard battery: 9.0 oz (254g) Extended battery: 10.9 oz (310g)
Display	4.7 inch; 720x1280; color display
Touch Panel	Multimode capacitive touch panel; bare or light gloved fingertip input; Corning® Gorilla® Glass
Power	Standard battery: typical capacity — 3500mAh Extended battery: typical capacity — 5000mAh
Network Connections	WLAN (Wi-Fi); WPAN (Bluetooth); USB 3.0 (super-speed client and host)
Notifications	Audible tone; multi-color LED; haptic feedback
Voice and Audio	Speaker; microphone; PTT voice
Buttons	Power button; three (3) programmable function buttons
Interface Ports	One (1) USB-C (USB 3.0); two (2) charge pogo pads on each side

Performance Characteristics

CPU	Qualcomm® QCS4490 octa-core; 2.4 GHz
Operating System	Android 13; upgradeable to Android 17
Memory	6 GB RAM; 64 GB Flash
Security	FIPS 140-2; Secure Boot; Verified Boot

User Environment

Operating Temp.	-4F to +122F (-20C to +50C)
Storage Temp.	-40F to +158F (-40C to +70C)
Humidity	5% to 95%, non-condensing
Drop Spec.	Per MIL-STD 810H: 6 ft (1.8m) to concrete at (+73F to +122F/+23C to +50C) 4 ft (1.2m) to concrete across temperature (-4F to +122F/-20C to +50C)
Tumble Spec.	1,000 Tumbles at 1.6 ft (0.5m) at room temperature
Sealing	IP65; IP67 with battery per applicable IEC sealing specifications
Vibration	4g PK Sine (5Hz to 2kHz); 0.04g 2/Hz Random (20Hz to 2kHz); 60 minutes duration per axis, 3 axis
Electrostatic Discharge (ESD)	+/- 15kV air discharge, +/- 8kV direct/indirect discharge

Data Capture

Scanning	Compatible with Zebra wearable Bluetooth scanners (RS2100, RS5100, RS6100) via NFC tap-to-pair. The RS5100 and RS6100 can be powered by the WT5400 using the USB-C corded adapter, with communication over Bluetooth.
NFC	ISO 14443 Type A and B; FeliCa and ISO 15693 cards; NFC Forum cards 1 to 5

Wireless LAN

Radio	IEEE 802.11 a/b/g/n/ac/ax/d/h/i/r/k/v/w/mc; 2x2 MU-MIMO; Tri-band (2.4 GHz, 5 GHz, 6 GHz); Wi-Fi CERTIFIED 6™ (Wi-Fi 6E); Dual Band Simultaneous; IPv4, IPv6
Data Rates	2.4 GHz: 802.11b/g/n/ax — 20 MHz - up to 286.8 Mbps; 5 GHz: 802.11a/n/ac/ax — 20 MHz, 40 MHz, 80 MHz, 160 MHz — up to 2402 Mbps; 6 GHz: 802.11ax — 20 MHz, 40 MHz, 80 MHz, 160 MHz — up to 2402 Mbps
Operating Channels	Channel 1-13 (2401-2483 MHz): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13; Channel 36-165 (5150-5850 MHz): 36, 40, 44, 48, 50, 52, 56, 60, 64, 100, 104, 108, 112, 114, 116, 120, 124, 128, 132, 136, 140, 144, 149, 153, 157, 161, 165; Channel 1-233 (5925-7125 MHz); Channel Bandwidth: 20, 40, 80, 160 MHz. Actual operating channels/frequencies and bandwidths depend on regulatory rules and certification agency.
Security and Encryption	WEP (40 or 104 bit); Enhanced Open (OWE); 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, EAP-PWD; WPA3 Enterprise 192-bit mode (GCMP256) - EAP-TLS
Certifications	Wi-Fi Alliance Certifications: Wi-Fi CERTIFIED; Wi-Fi CERTIFIED ac; Wi-Fi CERTIFIED 6 (Wi-Fi 6E); WPA2-Personal; WPA2-Enterprise; WPA3-Personal WPA3-Enterprise (includes 192-bit mode); Protected Management Frames: Wi-Fi Enhanced Open; WMM (Wi-Fi Multimedia); WMM-Power Save WMM-Admission Control; Voice-Enterprise: Wi-Fi Direct; Wi-Fi Agile Multiband; Wi-Fi QoS Management; Wi-Fi Optimized Connectivity; Passpoint

Wireless PAN

Bluetooth	Class 1; Bluetooth v5.3

Warranty

Subject to the terms of Zebra's hardware warranty statement, the WT5400 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

Zebra OneCare™ Essential and Select support services; Zebra Visibility Services — VisibilityIQ™ Foresight. For information on Zebra services, please visit www.zebra.com/services

Markets and Applications

Retail

- Reverse logistics
- Price verification/updates
- Store receiving
- Online order fulfillment
- Backroom inventory management
- Front of store order picking

Interactive Sensor Technology (IST)

Light Sensor	Automatically adjusts display backlight brightness
Motion Sensor	3-axis accelerometer with MEMS Gyro

General Certifications

Android Enterprise Recommended (AER)	Yes

Footnotes

1. Requires an active Zebra OneCare support contract. Specifications are subject to change without notice.

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. To learn what solutions are supported, please visit: https://developer.zebra.com/mobilitydna

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