TC101 Mobile Computer

Built for your frontline—and your budget

You need to empower your frontline with technology to improve productivity and efficiency. But the only devices within budget are low-cost competitors or consumer devices that lack enterprise durability, features, security and manageability. Introducing the TC101, the affordable enterprise mobile computer with all the right features. Purpose-built to streamline frontline workflows, the TC101 builds on legacy TC1 Series devices, adding the power to run highly responsive apps that never keep workers waiting for screen draws. Its rugged design is built to last for years. Fast 5G Release 16 and Wi-Fi 6/6E[1] wireless networks keep workers connected everywhere. Multiple best-in-class layers of security protect device data and network access. Effortless communications and data capture capabilities are always at the fingertips of your frontline, along with tools that simplify device management for your IT staff—unlike low-cost competitors and consumer devices. All from an industry leader you can trust.



More power, more rugged, more secure and more ergonomic

Next generation power to run today's modern apps

With a fast and efficient processor, class-leading high-speed memory technology and 2 TB of storage to support data-intensive apps, workers can run all the apps they need to get the job done. Instant app response times mean no waiting for screens to display. With support for the next three versions of Android, the devices you purchase today can serve your workers for years.

More rugged and more reliable in more environments

The TC101 is waterproof, dustproof and built for sub-zero temperatures as low as -4°F (-20°C)—ideal for workers in the field. Two of the most vulnerable components are protected with scratch- and shatter-resistant Corning Gorilla Glass—the display and scanner exit window. In the event the device is dropped, the raised housing and recessed display help protect the screen.

Faster wireless networks for more reliable connections everywhere

Get high-speed, secure cellular connections with 5G Release 16. Get a big performance leap with Wi-Fi 6, delivering 3x the speed, connecting 4x the devices, with 4x bandwidth[2]—all with increased security and reduced device power requirements. Optional Wi-Fi 6E[1] adds support for the 6 GHz band, substantially increasing bandwidth, reducing network congestion, and enabling faster and more reliable connections inside your facility. Use less power and get higher quality audio and more reliable, secure peripheral connections with Bluetooth 5.3.

Advanced ergonomics for all-day comfort and ease of use

Smaller than legacy TC1 Series devices, the pocketable TC101 is the lightest and thinnest device in this category. Zebra's award-winning Industrial Design team engineered the TC101 with and without the handstrap to fit comfortably in virtually any sized hand. Tactile features and a finger perch enable a secure grip. The raised scan button and the raised and enlarged push-to-talk (PTT) button have different patterns for easy identification by feel, and are placed at the right height for comfortable scanning. In addition, the power and volume buttons are purposefully flush to prevent accidental activation.

A new generation of affordable mobile computing, redefined for the frontline.

For more information, please visit www.zebra.com/tc101

Keep your devices safe with multiple layers of enterprise-class security

Get government grade security with FIPS 140-3 certification. Ensure that only trusted and untampered software is loaded when a device is turned on with Secure Boot and Verified Boot. Stay on top of emerging security threats with timely OS updates that can be distributed to the right devices with the press of a button with Zebra's LifeGuard™ for Android™ [3]. Enable facial recognition and more to ensure only authorized users access your devices with Identity Guardian [3]. Easily find lost devices with Device Guardian.[3]

Hear every word on every call

Two microphones and two speakers deliver next-level audio clarity, providing the effortless voice experience workers expect on voice, video and PTT calls and voice-enabled apps.

New replaceable battery options and better battery management

Choose from two new PowerPrecision batteries: a 3800 mAh standard battery or the 5200 mAh extended battery for longer or back-to-back shifts. With PowerPrecision technology, you can remotely monitor battery charge status and health. Now, you can alert users to replace nearly spent batteries, and identify and replace batteries that can no longer hold a full charge—preventing device downtime and the impact on user productivity.

New accessories for new capabilities

The TC101 is compatible with many TC2x accessories, opening the door to new workflows and more efficient backroom design. For example, the trigger handle is ideal for scan intensive tasks, such as inventory takes. The holster, handstrap and belt clip provide wearing options. Charge the TC101 in any outlet with the USB-C charging cable. Cut your backroom space requirements in half with new high-density next generation ShareCradles.

Effortlessly capture the data that powers your business

Capture any barcode with world-class integrated scanning

Zebra enterprise-class barcode scanners boost worker productivity with first-time, every-time capture of virtually any 1D, 2D or Digimarc barcode, regardless of condition—even if barcodes are poorly printed, dirty or damaged. Omni-directional scanning eliminates the need to align barcode and scanner, providing point-and-shoot simplicity. Barcodes can be captured in any lighting, ideal for workers in your facility and out in the field. Have workers that only need to capture barcodes occasionally? The camera in the scannerless models is ready for the job, right out of the box.

Capture indisputable photographic documentation

With the press of a button, workers can capture crisp, detailed photos to visually document proof of condition, proof of delivery, a damaged delivery or return—or proof that a task was completed, such as restocking a shelf.

Capture authenticated proof of location, automatically

Capture the location of route drivers for more efficient route planning to reduce fuel usage or for proof of location for deliveries within one meter accuracy with Dual-band GNSS.

The Zebra difference—more value, more productivity

Boost functionality and efficiency with Zebra DNA—your software advantage

Easily set up, secure, and manage your devices right out of the box with Zebra DNA Core—no-cost fundamental software that is pre-loaded and ready to use. Want to expand your Zebra DNA toolkit? Zebra DNA Core+[4] elevates frontline efficiency with premium tools that enable high-speed Wi-Fi 6E, streamlined data capture and stronger workforce collaboration.

Powerful Zebra-only tools for easy app development, wireless network management, device access and management of all your Zebra software

Additional high-value Zebra tools are available for licensing. Easily build custom apps that integrate all TC101 data capture features with Enterprise Browser. Monitor Wi-Fi and cellular network performance to identify and resolve issues before worker connectivity and productivity are impacted with Wireless Insights. Identity Guardian ensures only authorized users access your devices with facial biometrics and more. Quickly locate misplaced devices to prevent asset loss with Device Guardian. Manage all DNA apps from a single intuitive cloud-based interface with Zebra DNA Cloud. Automatically preconfigure devices with settings and apps the moment they are powered on with Zebra Zero Touch.

Triple device functionality and more with Zebra ready-to-use solutions

Add powerful communications capabilities with Zebra Workcloud Sync.[4] Turn the TC101 into a 2-way radio that enables push-to-talk (PTT) communications over Wi-Fi and cellular networks. Integrate PBX handset functionality to take and place calls through the PBX, complete with a visual interface that simplifies even the most complex telephony functions. Give your workers the modern communications capabilities they expect with multimedia chat, plus voice and video calling.

Specifications

Physical Characteristics

Dimensions	L x W x D: 6.5 x 3.07 x 0.49 inches (165 x 78 x 12.5 mm)
Weight	8.32 oz. (236 g) with 3800 mAh battery 9.24 oz. (262 g) with 5200 mAh battery
Display	6.0 inch color High Definition+; 720 x 1440; LED backlight; 450 NITS typical for outdoor use; optically bonded to touch panel; Corning® Gorilla® Glass
Imager Windows	Corning® Gorilla® Glass
Touch Panel	Multi-mode capacitive touch with bare or light gloved fingertip input; water droplet rejection, oleophobic coating
Power	User removable, rechargeable Li-Ion, PowerPrecision for key real-time metrics based on charge cycle history; Standard Capacity: 3800 mAh/14.63Wh; Extended Capacity: 5200 mAh/20.02Wh
Expansion Slot	User accessible MicroSD card supports up to 2 TB
SIM	Dual Nano-SIM (single Nano-SIM when microSD card is used)
Network Connections	WLAN Wi-Fi 6, WPAN (Bluetooth 5.3), NFC, USB 2.0 (Bottom Type-C); OTG/host charging mode
Notifications	Audible tone; multi-color LEDs; vibration
Keypad	On-screen keypad
Voice and Audio	Stereo speakers (up to 2W output); two microphones; audio headset support via USB-C port or Bluetooth wireless headset; BLE Audio 5.3 compatible; VoNR; VoLTE; Cellular Circuit Switch voice; HD voice; VoIP including full band (FB) and SWB Audio and PTT support
Buttons	Programmable buttons, dual dedicated scan buttons, dedicated push-to-talk button, volume up/down buttons
Interface Ports	USB 2.0 (Bottom Type-C); OTG/host charging mode; 2-pin bottom connectors

Performance Characteristics

CPU	Qualcomm® Dragonwing™ QCM4490 processor, up to 2.4 GHz
Operating System	Android; for supported Android versions, visit: www.zebra.com/android-versions
Memory	6 GB LPDDR5 RAM / 64 GB UFS Flash
Security	FIPS 140-3 Validated (ISO 19790) and Common Criteria certified (ISO 15408); Supports Secure Boot and Verified Boot

User Environment

Operating Temp.	-4°F to +122°F (-20°C to +50°C)
Storage Temp.	-40°F to +158°F (-40°C to +70°C)
Humidity	5%-95% non-condensing
Sealing	IP68 and IP65 per applicable IEC 60529 standard

Data Capture

Scanning	Optional scanners; all scanners are not available in all regions: SE4100 1D/2D Scan Engine with green LED aimer SR500 1D/2D Scan Engine with yellow LED aimer SR560 1D/2D Scan Engine with red laser aimer Camera-based scanning, leveraging Zebra's advanced decoder library for accurate and efficient data capture— complimentary with the device
Rear Camera	13 MP, f/1.8, 1/3"; Phase Detection Auto Focus (PDAF); flash LED generates balanced white light; supports Torch mode
Front Camera	5 MP; fixed focus
NFC	Reader/Writer: ISO 14443 Type A and B, MIFARE, FeliCa® and ISO 15693 cards, NFC Forum tags 2, 3, 4, 5; NFC Forum compliant

Wireless PAN

Bluetooth	Class 2, Bluetooth v5.3

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[1]); 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
Fast Roam	802.11r Fast BSS Transition; PMK Caching; Cisco CCKM; OKC
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, 52, 56, 60, 64, 100, 104, 108, 112, 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	WPA3 Enterprise 192-bit mode, GCMP256, —EAP-TLS; WPA3 Enterprise, AES-CCMP-128—EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC, LEAP, EAP-PWD; WPA3 Personal (SAE), AES-CCMP-128; WPA/WPA2 Enterprise, TKIP and AES-CCMP-128; WPA/WPA2 Personal (PSK), TKIP and AES-CCMP-128; Enhanced Open (OWE), AES-CCMP-128; WEP 40 bit and 104 bit WAN device only: EAP-SIM, EAP-AKA, EAP-AKA Prime
Certifications	Wi-Fi Alliance Certifications: Wi-Fi CERTIFIED n; Wi-Fi CERTIFIED ac; Wi-Fi CERTIFIED 6 (Wi-Fi 6E[1]); 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;

Markets and Applications

Retail

- Item lookup/price check
- Inventory management
- Online order fulfillment
- Line busting/payment
- Task management
- Restocking/replenishment
- Associate communications

Transportation and Logistics, Field Mobility

- Fulfillment center/ Dark Store (micro-fulfillment center) stocking/ loading
- Long distance truck drivers
- Last mile delivery route navigation and Proof of Delivery
- DSD truck driver
- Loading in the Distribution Center
- Route navigation
- Delivery/inventory check

User Environment

Tumble Specifications	500 1.6 ft. (0.5 m) tumbles 500 3.3 ft. (1.0 m) tumbles with rugged boot
Drop Specifications	Exceeds MIL-STD-810H: 4 ft. (1.2 m) to concrete across 14°F to +122°F (-10°C to +50°C) With rugged boot: 5 ft. (1.5 m) to concrete across 14°F to +122°F (-10°C to +50°C)
Electrostatic Discharge (ESD)	±15 kV air discharge, ±8 kV direct discharge; ±8 kV indirect discharge

Interactive Sensor Technology (IST)

Light Sensor, Motion Sensor, Proximity Sensor, Magnetometer (WWAN SKUs only)

Wireless LAN

	Passpoint
Multimedia	Wi-Fi Multimedia™ (WMM) and WMM-PS; including TSPEC

Wireless WAN, Data and Voice Communications

GPS/Locationing	GPS, GLONASS, Galileo, BeiDou, QZSS, NavIC; Dual-Band GNSS—concurrent L1/G1/E1/B1; (GPS/QZSS, GLO, GAL, BeiDou) + L5/E5a/BDSB2a (GPS/QZSS, GAL, BeiDou); a-GPS; supports XTRA
Radio Frequency Band[5]	Rel-16, Dual SIM/Dual Standby, VoLTE, Gigabit LTE-A, 5G NR Sub-6 (NSA, SA), LTE/NR Carrier Aggregation, supports private 5G/LTE; Bands: Rest of World: 5G FR1: n1/2/3/5/7/8/12/18/20/25/26/28/38/40/41/66/71/77/78/79; 4G: B1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/34/38/39/ 40/41/42/43/66/71; 3G: 1/2/4/5/6/8/9/19; 2G: 850/900/1800/1900

Environmental Compliance

RoHS Directive 2011/65/EU; Amendment 2015/863; REACH SVHC 1907/2006; EPEAT Certified; for a complete list of product and materials compliance, please visit: www.zebra.com/environment

Warranty

Subject to the terms of Zebra's hardware warranty statement, the TC101 is warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For the complete warranty statement, please visit: www.zebra.com/warranty

Recommended Services

Zebra OneCare™ Essential and Special Value (SV); Zebra VisibilityIQ Foresight™; Professional Services Gold Build; For information on Zebra services, please visit www.zebra.com/services

Footnotes

1. Requires upgrade to Zebra DNA Core+ license, not available in all regions
2. Compared to legacy TC1 devices with Wi-Fi 5
3. Optional, requires a license
4. Optional, requires a license; not available in all regions
5. Actual band support may vary by country or carrier. Please contact Zebra for more details

Zebra DNA

For information on Zebra DNA, visit www.zebra.com/zebra-dna
Zebra DNA features vary by model; a support contract may be required. To learn what solutions are supported, visit: https://developer.zebra.com/zebra-dna

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