TC201 Mobile Computer

The new standard in cost-effective mobile computing for the frontline

Take frontline productivity to a new level with the TC201, the next generation TC2x Series that resets the bar for cost-effective mobile computers. This updated platform delivers a substantial performance leap over legacy devices[1], giving workers the speed required for modern operations. The familiar, ergonomic design boasts class-leading ruggedness for unparalleled indoor and outdoor reliability, plus support for cloud-based AI applications. The fastest cellular and Wi-Fi connections keep workers connected—5G 3rd Gen Release 17 and Wi-Fi 7. Unmatched enterprise-grade security features protect your devices, data and networks. Enable powerful new use cases with optional RFID[2] and a new advanced range scanner[5] that captures barcodes up to 100 ft. (30 m) away, plus the versatility to capture high-resolution color images. And with backward compatibility with most TC2x accessories, migrating to this next evolution device is easy—and affordable.



Next generation power, durability and security

Exceptional processing power for exceptional app performance

The TC201 delivers an incredible leap in performance—up to 150%+ over legacy TC2x devices.[1] Now, workers can run all the apps they need, simultaneously.

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

Get timely OS updates to stay on top of emerging security threats with LifeGuard™ for Android™ [3]. Enable facial recognition for device access with Identity Guardian[4]. The built-in Bluetooth BLE beacon works with Device Guardian[4] to locate lost devices—no BLE batteries required.

Shield sensitive data and prevent physical hardware attacks with the optional Android Strongbox/Secure Element.[5] Bring government-grade security to your business with FIPS 140-3 and Common Criteria Certification.

The most rugged and reliable TC2 Series device

The TC201 takes its place as the most rugged TC2 Series device. The waterproof and dustproof device now handles higher drops and 50% more tumbles[1], driving reliability up. Now built for sub-zero temperatures as low as -4°F (-20°C), the TC201 is ideal for workers indoors and out in the field. Two of the most vulnerable components are protected with scratch- and shatter-resistant Corning Gorilla Glass—the display and the scanner exit window.

Cost-effective upgrade with backwards accessory compatibility

Maximize your investment by reusing existing TC22/TC27 accessories, including batteries and charging cradles, while a new boot and screen protector improve durability. For new deployments, high-density ShareCradles reduce backroom footprint, while modular attachments, including a trigger handle or wearable arm mount quickly adapt the TC201 for intensive scanning or hands-free tasks.

Continuous uptime with perpetual power

Eliminate downtime and keep the TC201 in service all shift long with a user-removable battery and optional hot swap.[5]

Drive workforce productivity and workflow efficiency to the next level with the rugged TC201— the next generation in cost-effective mobile computing, reimagined for your frontline.

For more information, please visit www.zebra.com/tc201

Get exceptional voice clarity with advanced AI audio

An advanced AI-based algorithm eliminates acoustic echoes and more background noises—even in environments that challenge traditional noise suppression technologies. Whether you're speaking to a customer, a co-worker, a supervisor or a voice-enabled application, with advanced AI audio, you can count on crystal clear voice.

More ways to automate data capture

Built-in efficiency with built-in RFID[2]

Optional integrated RFID opens the door to powerful new use cases. Now workers can read 200 tags per second, up to 3.94 ft. (1.2 m)—with unmatched read sensitivity and accuracy, thanks to the advanced antenna design. Delivery drivers can locate the right package at each stop with the press of a button—and associates can pinpoint the location of a missing item quickly and easily with a Geiger-counter style function.

New best-in-class scanners

Choose the right scan engine for your specific workflow. The premium advanced-range AC670 scanner captures barcodes up to 100 ft. (30 m) away as well as high-resolution color images, streamlining data capture by eliminating the need to bend down or climb to scan. The SR500 standard range scanner features a high-visibility yellow LED aimer and red illumination for precise scanning. Both scanners offer an improved 2D barcode finder for fast and accurate barcode capture in any lighting condition, including bright sunlight, high motion tolerance for scanning on the move, and Zebra's patented scanning technology to capture virtually any barcode, regardless of condition. For occasional scanning needs, a non-scanner model leverages the integrated camera instead of a dedicated scan engine.[6]

All the fastest wireless networks

Worldwide flexible cellular service

Enable cellular service anywhere in the world with 5G 3rd Gen Release 17. Support for private 5G, CBRS and simultaneous service on two networks provides complete cellular network flexibility. And private 5G network support is ideal for large areas where Wi-Fi may be too complex and costly to deploy.

Wi-Fi 7—setting new standards for Wi-Fi performance

Wi-Fi 7 doubles the speed, bandwidth, and device capacity of Wi-Fi 6 with HBS Multi-Link technology, which eliminates interference, maximizes throughput, and minimizes latency through simultaneous multi-band transmission.

Additionally, backward compatibility with the three previous Wi-Fi generations ensures cost-effective network upgrades.

Bluetooth 6—more reliable, more range, all with less power

Bluetooth 6 increases data speeds, range and security, all with reduced power consumption. Zebra DNA's Device Central adds value by providing users and IT with easy control of Bluetooth accessories by simplifying pairing, unpairing, locating, and troubleshooting of all Bluetooth peripherals.

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 on every TC201. Want to expand your Zebra DNA toolkit? Zebra DNA Core+[4] takes frontline efficiency to the next level with premium tools that streamline data capture and better connect teams to strengthen 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 TC201 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.[6] Turn the TC201 into a 2-way radio with push-to-talk (PTT) communications over Wi-Fi and cellular networks—and a PBX handset with a powerful visual interface that simplifies the most complex telephony functions. Give your workers modern communications capabilities with multimedia chat, voice and video calling, and a To-Do list function to track tasks and task status. Zebra Workstation Connect or Wireless Workstation Connect turns the TC201 into a wired or wireless workstation on demand, reducing the need to purchase and manage workstations.

Specifications

Physical Characteristics

Dimensions	L x H x D: 6.5 x 3.0 x 0.49 inches (165 x 77.95 x 12.5 mm)
Weight	8.64 oz. (245 g) with standard capacity battery 9.55 oz. (270 g) with extended capacity battery
Display	6.0 inch color Full High Definition+ (2160 x 1080); LED backlight; 450 NITS; optically bonded to touch panel; Corning® Gorilla® Glass
Imager Window	Corning® Gorilla® Glass
Touch Panel	Multi-mode capacitive touch with bare or light gloved fingertip input; water droplet rejection; fingerprint resistant anti-smudge coating
Power	User removable, rechargeable Li-Ion, PowerPrecision for real-time battery metrics; Standard Capacity: 3800 mAh/14.63Wh; Extended Capacity: 5200 mAh/20.02Wh; Hot Swap battery mode (select SKUs only)
Expansion Slot	User accessible MicroSD card; supports up to 2 TB
SIM	One physical SIM and Dual eSIM
Network Connections	WLAN Wi-Fi 7, WPAN (Bluetooth 6.0), WWAN 5G
Notifications	Audible tone; multi-color LEDs; vibration
Keypad	On-screen keypad
Voice and Audio	Stereo speakers; 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), SWB Audio, and PTT support
Buttons	Programmable buttons: dual scan buttons, push-to-talk button, volume up/down buttons
Interface Ports	USB Type C (USB 3.1); Back I/O (USB 2.0)

Performance Characteristics

CPU	Qualcomm® Dragonwing™ Q-6690 processor; up to 2.0 GHz
Operating System	Android; for supported Android versions, visit: www.zebra.com/android-versions
Memory	6 GB LPDDR5 RAM/64 GB UFS 2.2 Flash 8 GB LPDDR5 RAM/128 GB UFS 3.1 Flash
Security	Android Strongbox with Secure Element IC (select SKUs only); 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 IEC 60529 standard

Wireless PAN

Bluetooth	Configurable Class 1 and 2; Bluetooth V6.0 with 2X2 Tx; Chipset-enabled secondary BLE beaconing support

Wireless LAN

Radio	IEEE 802.11 be/az/mc/ax/ac/n/a/g/b/d/h/i/r/k/u/v/w; Tri-band (2.4 GHz, 5 GHz, 6 GHz), 2x2 MU-MIMO; Wi-Fi CERTIFIED 7™; MLO (Simultaneous Transmit and Receive MLMR) in Tri-band and Dual-band modes: 2.4+5+5, 2.4+5+6, 5+5+6, 5+6, 5+5, 2.4+5, 2.4+6; Dual Band Simultaneous, High Band Simultaneous; IPv4, IPv6; Wi-Fi Aware
Data Rates	2.4 GHz: 802.11b/g/n/ax/be — 20 MHz – up to 344 Mbps; 5 GHz: 802.11a/n/ac/ax/be — 20 MHz, 40 MHz, 80 MHz, 160 MHz - up to 2882 Mbps; 6 GHz: 802.11ax/be — 20 MHz, 40 MHz, 80 MHz, 160 MHz, 320 MHz - up to 5764 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, 320 MHz Actual operating channels/frequencies and bandwidths depend on regulatory rules and certification agency.
Security and Encryption	WPA3 Enterprise 192-bit mode, GCMP-256 — EAP-TLS; WPA3 Enterprise, AES-CCMP-128, GCMP-256 — EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC, EAP-PWD; WPA3 Personal (SAE, SAE-EXT), AES-CCMP-128, GCMP-256; WPA/WPA2 Enterprise, TKIP and AES-CCMP-128; WPA/WPA2 Personal (PSK), TKIP and AES-CCMP-128; Enhanced Open (OWE), AES-CCMP-128, GCMP-256; WEP 40 bit and 104 bit; WAN device only: EAP-SIM, EAP-AKA, EAP-AKA Prime
Certifications	Wi-Fi Alliance Certifications: Wi-Fi CERTIFIED 7; Wi-Fi CERTIFIED 6 (Wi-Fi 6E); Wi-Fi CERTIFIED ac; Wi-Fi CERTIFIED n; 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 WAN, Data and Voice Communications

Radio Frequency Bands[7]	Rel-17, Dual SIM/Dual Standby, VoLTE, Gigabit LTE-A, 5G NR Sub-6 (NSA, SA), LTE/NR Carrier Aggregation (CA), LTE CA - Up to 3DLCA, 2ULCA, NR CA: Up to 3DL, 2UL Bands: 5G FR1: n1/2/3/5/7/8/12/13/14/18/20/25/26/28/29/30/38/40/41/48/66/70/71/75/76/77/78/79 4G: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/30/32/34/38/39/40/41/42/43/48/66/70/71/106

Markets and Applications

Retail Associates

- Order entry
- Order picking
- Price/inventory check
- Info/item lookup
- Assisted selling
- Click and Collect
- Line busting
- Mobile POS
- Inventory and cycle counts
- Put-away and replenishment
- Receiving/shipping

Transportation and Logistics/Field Service

- Last mile delivery
- Proof of condition
- Proof of delivery
- Route accounting
- Asset management and tracking
- Route optimization, accounting, and invoicing
- Scheduling/ location-based services

Warehouse and Light Manufacturing

- Picking/put-away/collecting
- Shipping/receiving
- Asset management
- Document capture
- Inventory control
- Production management

User Environment

Tumble Specification	750 1.6 ft. (0.5 m) tumbles 750 3.3 ft. (1.0 m) tumbles with rugged boot Angled Scanner: 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: 5 ft. (1.53 m) to concrete at +14°F to +122°F (-10°C to +50°C) 6 ft. (1.83 m) to concrete @ room temperature With rugged boot: 6 ft. (1.83 m) to concrete at 14°F to +122°F (-10°C to +50°C) 7 ft. (2.13 m) to concrete @ room temperature Angled Scanner: 4 ft. (1.22 m) to concrete at +14°F to +122°F (-10°C to +50°C) With rugged boot: 5 ft. (1.53 m) to concrete at +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: automatically adjusts display brightness
Motion sensor: 3-axis gyroscope, 3-axis accelerometer
Magnetometer: eCompass automatically detects direction and orientation
Pressure sensor/barometer: WWAN SKU only
Proximity sensor: Automatically disables the display and touch input when the device is positioned close to the ear

Data Capture

Scanning	AC670 Advanced Range Color 1D/2D Scan Engine; SR500 1D/2D Scan Engine; SR560 60° angled 1D/2D Scan Engine (available in APAC and LATAM); Camera-based scanning, leveraging Zebra's advanced decoder library for accurate and efficient data capture— complimentary with the device
Rear Camera	16 MP auto-focus camera with user controllable LED flash
Front Camera	5 MP; fixed focus
NFC	NFC ISO 14443 Type A and B; Mifare, FeliCa and ISO 15693 cards; Mifare Desfire EV1, EV2, EV3, EMVCo RR2 compliant; NFC Forum tags 2,3,4,5; Host Card Emulation; Contactless Payment Support; Google Wallet support; VAS (Value Added Services); Apple ECP1.0 and ECP2.0; Apple VAS and Google Smart Tap certified; FeliCa M-Class Certified; VAS Library/SDK (Apple, Google and Samsung Wallet)
Integrated RFID[2]	Short range integrated UHF RFID; up to 3.94 ft. (1.2 m); reads > 200 tags persecond; EPC Class 1 Gen2; EPC Gen 2 V2; EU 865-868 MHz and US 902-928 MHz; (Select SKUs only)

Wireless WAN, Data and Voice Communications

	3G: B1/2/4/5/6/8/19; 2G: (ROW SKU only) 850/900/1800/1900 4x4 DL MIMO6: 5G FR1: n1/2/3/7/25/30/38/40/41/48/66/70/77/78/79; 4G: 1/2/3/4/7/25/30/38/40/41/42/43/48/66/70; Private Cellular: B48/106
GPS (WWAN SKU only)	GPS, GLONASS, Galileo, Beidou, QZSS; Dual-Band GNSS—concurrent L1/G1/E1/B1; (GPS/QZSS, GLO, GAL, BeiDou) + L5/E5a/BDSB2a (GPS/QZSS, GAL, BeiDou); a-GPS; supports XTRA
Multimedia	Wi-Fi Multimedia™ (WMM) and WMM-PS; TSPEC

General Certifications

Google ARCore certified; Android Enterprise Recommended (AER) certified

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 TC201 is warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For complete warranty statement, please visit: www.zebra.com/warranty

Recommended Services

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

Footnotes

1. Compared to TC21/TC26/TC22/TC27
2. Availability for RFID SKUs: EMEA in Q4 2026; North America, APAC and LATAM in Q1 2027
3. Requires a Zebra OneCare plan
4. Optional, requires a license
5. Available on select SKUs
6. Not available in all regions
7. 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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