

TC52/TC57 Series Touch Computer

Better enterprise-class touch computing

The TC52/TC57 Touch Computers build on the TC51/TC56, adding a better platform and more capabilities to deliver better enterprise-class touch computing. You get an excellent user experience — the simplicity of Android with the business features workers need to increase productivity and decrease process cycle times. You get better technology advancements on an outstanding platform, adding the benefits of mobility today, with the future proofing you need to serve your business tomorrow. You get better collection of value-add apps, Mobility DNA™, with four more complimentary solutions that deliver excellent functionality — including better WiFi performance, centralized control of the device update process, control over access to Google Mobile Services (GMS) and more. And optional Visibility Services offer outstanding device management capabilities to increase device value.



Improved user experience

Android for fast familiarity

Your workers already know how to use an Android device, virtually eliminating training time and adoption curves. And you can deliver the highly-graphic interactive apps today's workers expect.

Advanced touchscreen technology

Give your workers touchscreen simplicity. The 5 in. display offers plenty of real estate for graphics-intensive intuitive applications.

The easy, familiar and flexible multi-touch operation works even when wet, with a gloved finger or a stylus. And with better outdoor readability, the screen is easy to read, even in bright sunlight.

Easily capture these — barcodes, labels and documents

Advanced scanning technology and PRZM Intelligent Imaging deliver very fast capture of printed and electronic 1D and 2D barcodes, including Digimarc — practically regardless of condition. The expanded working range and wide field of view allow workers to scan barcodes nearer and farther away, while omnidirectional scanning delivers true point and shoot performance — no need to ever align the device with the barcode.

Full shift power your workers can count on

The PowerPrecision+ high capacity battery delivers up to an impressive 14 hours of power¹ — plenty for the long shift. With Warm Swap mode, swapping batteries is fast and easy — there's no need to turn off the device or close active apps. And with fast charging, batteries can be fully charged and ready to go quickly.

New technology advancements

Rugged and ready for the tough business day

While these touch computers look like smartphones, the similarities stop there — they are engineered for the enterprise, inside and out. You can drop it in water or on concrete and use it in dusty areas, out in the rain or snow — and still expect reliable operation.

The unibody design provides extra impact protection for the sensitive electronics. And the Corning™ Gorilla™ Glass touch panel and imager window bring better scratch-resistance and shatter-proofing to two vulnerable device features.

A platform to handle your apps — today and tomorrow

The powerful processor provides outstanding performance on voice and data apps. You also get built-in support for future versions of Android and future apps, such as artificial intelligence.

Rich locationing support

Easily implement locationing with support for many technologies, including Visible Light Communication (VLC), Bluetooth 5.0 BLE and WiFi, plus Zebra's SmartLens and MotionWorks solutions.

Support for advanced WiFi enhancement improves WiFi range and speed — with less power

2x2 Multiple-User Multiple Input Multiple Output (MU-MIMO) technology allows access points to communicate with multiple devices simultaneously via pinpoint beamforming, boosting WiFi network capacity, speed and range. And processing is shifted from the mobile device to the access point, extending battery cycle time.

Higher quality voice

Three microphones, high-volume speakers and noise-cancellation technology work together to ensure that callers on both ends of the calls can hear the words — even in the noisy areas.

5 MP front-facing camera supports more advanced apps

With this front-facing camera, you get built-in support for the advanced positioning technology, Visible Light Communication (VLC) which allows you to track the location of shoppers and workers with compatible overhead LED lighting. Video calling improves service and productivity. Customers enjoy a more personal touch — and remote experts can see a repair in process to help onsite technicians resolve issues faster and increase first-time-fix rates.

Better cellular network flexibility with single device simplicity

The TC57 provides workers around the world with dependable cellular service. Support for carrier aggregation substantially improves application performance by increasing data capacity and speeds. It is certified on advanced public safety networks, including AT&T FirstNet and Verizon, assuring responders have the connectivity they need even when networks are overloaded in crisis situations.

High-resolution photos and videos

The 13 MP color rear camera captures highly detailed photos and videos — applicable for proof-of-condition/delivery/service, onsite technical support and more.

Bluetooth 5.0 for faster speed and wider range — with less power

Improved data speeds up to 2 Mbps increases application flexibility and performance for Bluetooth peripherals, such as printers and headsets, while Bluetooth Low Energy reduces power requirements to extend battery cycle times.

Boost productivity with enterprise accessories

You get a suite of backward compatible business-class accessories that make the TC52/TC57 easier to use and manage, from a snap-on trigger handle for easier scanning to ShareCradles that charge these — devices and batteries.

Drive workforce productivity, efficiency and device value with powerful Mobility DNA apps

WorryFree WiFi — delivered dependably excellent WiFi

Provide workers with better WiFi connection, virtually every minute of every shift. This free tool delivers near instant application response times, excellent roaming performance, plus high voice quality and accurate network diagnostics - what you need to leverage your WiFi network to increase workforce productivity and better serve customers.

PowerPrecision Console — prevent aging batteries from reducing workforce productivity

This free PC-based solution provides an easy-to-read dashboard that allows you to quickly identify and remove aging batteries from your battery pool — before they impact workforce productivity and mobile device uptime.

End-to-end outstanding control of the update process with LifeGuard

Updating your enterprise-class Android mobile devices is often time-consuming, costly, complex and difficult to track. Now you can do it with LifeGuard Analytics — free with your Zebra OneCare™ Support contract. View available updates along with priority and which devices are eligible for the update. Automatically update your devices over the air with the press of a button. And easily monitor and manage the status of updates in real time.

Easily manage access to Google Mobile Services (GMS) with Restricted Mode

StageNow's new Restricted Mode delivers an easy way to simply click to deactivate Google Mobile Services (GMS) that come standard with the operating system — and reactivate should you need them down the road. StageNow is free and pre-loaded on TC52/TC57.

Better device management options

Improve device value with Zebra's optional Visibility Services

Get the device management data you need to take device uptime, operational efficiency and the return on investment to the next level. Asset Visibility Service (AVS) is an easy to use and deploy solution that doesn't require an Enterprise Mobility Management (EMM) system. Operational Visibility Services (OVS) is a comprehensive device management solution that leverages your EMM information to help get more value out of your Zebra mobile devices. These optional services can be added to your optional Zebra OneCare support contract.

Specifications

Physical Characteristics

Dimensions	6.1 in. L x 2.9 in. W x 0.73 in. H 155 mm L x 75.5 mm W x 18.6 mm H
Weight	8.8 oz./249 g with battery
Display	5.0 in. High Definition (1280 x 720); very bright, outdoor viewable; optically bonded to touch panel
Imager Window	Corning Gorilla Glass
Touchpanel	Dual mode capacitive touch with stylus or bare or gloved fingertip input (conductive stylus sold separately); Corning Gorilla Glass; water droplet rejection; fingerprint resistant anti-smudge coating
Backlight	LED backlight
Power	Rechargeable Li-Ion, PowerPrecision+, > 15.48 Watt hours, > 4150 mAh, improved battery metrics for better battery management, fast charging (up to 2.4 A)
Expansion Slot	User accessible microSD up to 32GB SDHC and up to 256 GB SDXC
SIM Slots	TC57 only: 1 nano SIM; 1 eSIM
Network Connections	TC52/TC57: WLAN, WPAN (Bluetooth), USB 2.0, High Speed (Host and Client) TC57 Only: WWAN
Notification	Audible tone; multi-color LEDs; vibration
Keypad	On-screen keypad and enterprise keyboard
Voice and Audio	Three microphones with noise cancellation; vibrate alert; Front facing speaker; Bluetooth wireless headset support; High quality speaker phone; PTT headset support; cellular circuit switch voice; HD Voice; and SWB & FB audio
Buttons	Six programmable buttons for more flexibility: Back button, dual dedicated scan buttons, dedicated push-to-talk button and volume up/down buttons

Performance Characteristics

CPU	Qualcomm Snapdragon™ 660 octa-core, 2.2 GHz
Operating System	TC52: Upgradeable to Android 14 TC57: Upgradeable to Android 14
Memory	4GB RAM/32GB Flash

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% to 95% non-condensing
Drop Specifications	Multiple 6 ft. drops to concrete with the rugged boot accessory per Mil STD 810 G; Multiple 4 ft/1.2m drops to tile over concrete -10°C to 50°C (14°F to 122°F)
Tumble Specification	500 1.6 ft./0.5 m tumbles, meets IEC tumble specification
Sealing	IP68 and IP65 per applicable IEC sealing specifications
Vibration	4 g's PK Sine (5 Hz to 2 kHz); 0.04 g 2/Hz Random (20 Hz to 2 kHz); 60 minute duration per axis, 3 axis
Thermal Shock	-40° F to 158° F/-40° C to 70° C rapid transition
Electrostatic Discharge (ESD)	+/- 15kv air discharge; +/- 8kv direct discharge; +/- 8kv indirect discharge

Interactive Sensor Technology (IST)

Light Sensor	Automatically adjusts display backlight brightness
Magnetometer	eCompass automatically detects direction and orientation
Motion Sensor	3-axis Accelerometer with MEMS Gyro
Pressure Sensor	Automatically detects altitude information for locating (TC57 only)

Proximity Sensor	Automatically detects when the user places the handset against head during a phone call to disable display output and touch input
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Data Capture

Scanning	SE4710 imager (1D and 2D) with outstanding range: Scan range – Code 39 barcode: 20 Mil: 2.0 in. to 30.0 in./5.08 cm to 76.2 cm 4 Mil: 3.3 in. to 8.8 in./8.4 cm to 22.4 cm Digimarc support
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Camera	Front — 5 MP; f/2.0 aperture Rear — 13 MP autofocus; f/2.2 aperture; flash LED generates balanced white light; supports Torch mode
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NFC	ISO 14443 Type A and B; FeliCa and ISO 15693 cards; P2P mode and Card Emulation via Host. TC57 Only: Card Emulation via Host and UICC
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Wireless WAN Data and Voice Communications (TC57 Only)

Radio Frequency Band	Supports VoLTE, Carrier Aggregation up to 3DL CA AT&T FirstNet Ready certification Verizon PNTM certification LTE FDD: 700/800/850/900/1800/1900/ AWS/2100/2600 (28,13,14,12,17/19,20/5,26/8/3/2,25/4,66/1/7); LTE TDD: 1900/2300/2500 (39/40/41,38); UMTS/HSPA/HSPA+: 850/900/AWS/1900/2100 (5/8/4/2/1); GSM/GPRS/EDGE: 850/900/1800/1900
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GPS	TC57 only: Autonomous, Concurrent GPS; GLONASS; Galileo; BeiDou, and A-GPS. Supports IZAT™ XTRA
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Multimedia	Wi-Fi Multimedia™ (WMM) and WMM-PS; Including TSPEC
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Wireless LAN

Radio	TC52: IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v3/w; Wi-Fi™ certified; IPv4, IPv6, 2x2 MU-MIMO TC57: IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v3/w; Wi-Fi™ certified; IPv4, IPv6, 5GHz 2x2 MU-MIMO
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Data Rates	5GHz: 802.11a/n/ac — up to 866.7 Mbps 2.4GHz: 802.11b/g/n — up to 300 Mbps
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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.
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Security and Encryption	WEP (40 or 104 bit); WPA/WPA2 Personal (TKIP, and AES); WPA/WPA2 Enterprise (TKIP and AES) — EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC and LEAP. EAP-PWD
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Certifications	WFA (802.11n, WMM-PS, 801.11ac, PMF)
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Fast Roam	PMKID caching; Cisco CCKM; 802.11r; OKC
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Markets and Applications

Retail Associates

- Price/inventory checks
- Item locator
- Line busting/POS
- Assisted selling
- Electronic coupons
- Gift registry lookup

Retail Managers

- Workforce management
- Planogram management
- Merchandising

Direct Store Delivery Drivers

- Order automation
- Delivery tracking
- Inventory management

Field Service Technicians

- Invoicing
- Scheduling and location-based services

Light Courier Drivers

- Proof of delivery
- Asset management
- Location services
- Invoicing

Public Service

- eCitation
- Communication and collaboration
- Asset management

PRODUCT SPEC SHEET

TC52/TC57 SERIES TOUCH COMPUTER

Wireless PAN

Bluetooth	Class 2, Bluetooth v5.0, Bluetooth Low Energy (BLE)
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Warranty

Subject to the terms of Zebra's hardware warranty statement, the TC52/57 Series 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™ Essential and Select support services
Zebra Visibility Services – VisibilityIQ™ Foresight or Asset Visibility Service

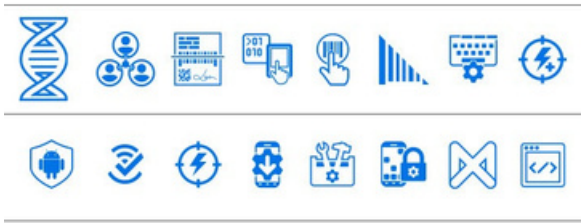
Footnotes

1. Based on typical user profiles
Specifications subject to change without notice.
For details related to Common Criteria support, please visit: www.zebra.com/commoncriteria

Mobility DNA Software

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 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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