TC52 and TC57 Series Touch Computer

THE ULTIMATE IN ENTERPRISE-CLASS TOUCH COMPUTING

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

The ultimate user experience

Android for instant 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 best-in-class outdoor readability, the screen is easy to read, even in bright sunlight.

Easily capture it all — barcodes, labels and documents
Advanced scanning technology and PRZM Intelligent Imaging deliver lightning fast capture of printed and electronic 1D and 2D barcodes, including Digimarc — 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.

Need to capture multiple barcodes on a single label or data on a form, such as checkboxes, text fields, signatures and more? You can do it all with the press of a single button with Zebra's SimulScan, a no-cost pre-installed Mobility DNA application.

Full shift power your workers can count on
The PowerPrecision+ high capacity battery delivers up to an impressive 14 hours of power — plenty for the longest 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 are fully charged and ready to go in record time.

Active Edge™ Touch Zone for One-touch Feature Access
Your users can easily create unique dedicated soft keys on either side of the display to access their most frequently used device features and applications with single touch simplicity — from the scanner, camera and line-of-business applications to push-to-talk and text messaging.

All the latest technology advancements

Rugged and ready for the toughest 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 maximum scratch-resistance and shatter-proofing to two of the most vulnerable device features.

THE TC52/TC57 — THE ULTIMATE ENTERPRISE TOUCH COMPUTER.
FOR MORE INFORMATION, VISIT WWW.ZEBRA.COM/TC52 AND WWW.ZEBRA.COM/TC57
A platform to handle all your apps — today and tomorrow
The ultra-powerful processor provides superior performance on all voice and data apps. You also get built-in support for the next two versions of Android (P and Q) 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 MPact solutions.

Support for the latest 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.

The highest quality voice in its class
Three microphones, high-volume speakers and noise-cancellation technology work together to ensure that callers on both ends of every call can hear every word — even in the noisiest areas.

New 5 MP front-facing camera supports more advanced apps
With the new front-facing camera, you get built-in support for the latest locationing technology, Visible Light Communication (VLC), which allows you to track the location of shoppers and workers using existing LED lighting infrastructure. 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.

Complete cellular network flexibility with single device simplicity
The TC57 provides all workers anywhere in the world with dependable cellular service. Support for carrier aggregation substantially improves application performance by increasing data capacity and speeds. And support for the powerful Public Safety LTE network provides the reliable communications first responders need, eliminating network congestion concerns and providing the interagency operation required for improved situational awareness.

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

Bluetooth 5.0 for twice the speed and four times the range — with less power
A new Bluetooth range of 800 ft./240 m and 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.

Maximize productivity with enterprise accessories
Unlike consumer smartphones, you get a full 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 unique ShareCradles that charge it all — devices and batteries.

Drive workforce productivity, efficiency and device value to a new level with powerful new Mobility DNA apps
WorryFree WiFi — dependably superior WiFi, delivered
Provide every worker with the best possible WiFi connection, every minute of every shift. This free tool delivers near instant application response times, unmatched roaming performance, plus exceptional voice quality and network diagnostics — everything 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 revolutionary 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 all 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 industry first — 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 every TC52/TC57.

The ultimate in 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.
## TC52/TC57 Series 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); exceptionally 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; 4550mAh/19.5 Wh; 4.4 volts PowerPrecision+ with improved battery technology for longer cycle times and real-time visibility into battery metrics for better battery management, fast USB Charging (up to 2.4A) |
| Expansion Slot | User accessible MicroSD up to 32GB SDHC  
|            | up to and including 256 GB SDXC |
| SIM Slots  | TC57 only: 1 nano SIM              |
| Network Connections | WWAN, WLAN, WPAN (Bluetooth) |
| Notification | Audible tone, multi-color LEDs; vibration |
| Keypad     | On-screen keypad and enterprise keyboard |
| Voice and Audio | Three microphones with noise cancellation; vibrate alert; speaker; Bluetooth wireless handset support; High quality speaker phone; PTT headset support; cellular circuit switch voice; HD Voice; and SWB & FB audio |
| Buttons    | Six programmable buttons for maximum flexibility: Back button, dual dedicated scan buttons, dedicated push-to-talk button and volume up/down buttons |

### USER ENVIRONMENT (CONTINUED)

| Sealing    | IP67 and IP65 per applicable IEC sealing specifications |
| Vibration  | 4g’s PK Sine (5 Hz to 2 kHz); 0.04 g 2Hz 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 backlight brightness
- **Magnetometer**: eCompass automatically detects direction and orientation
- **Motion Sensor**: 3-axis Accelerometer with MEMS Gyro
- **Pressure Sensor**: Automatically detects altitude information for locationing
- **Proximity Sensor**: Automatically detects when the user places the handset against head during a phone call to disable display output and touch input

### DATA CAPTURE

- **Scanning**: SE4700 imager (1D and 2D) with extraordinary range: Scan range – Code 39 barcode: 20 Mil: 1.8 in. to 32.0 in./4.5 cm to 81.3 cm 3 Mil: 3.1 in. to 5.6 in./7.9 cm to 14.2 cm Digimarc support
- **Camera**: Front — 5 MP; f/2.0 aperture front facing camera  
Rear — 13 MP autofocus; f/2.2 aperture; rear camera flash LED generates balanced white light; supports Torch mode; 4K video with image stabilization
- **NFC**: ISO 14443 Type A and B; F, FeiCo and ISO 15693 cards; P2P mode and Card Emulation via Host

### WIRELESS WAN DATA AND VOICE COMMUNICATIONS (TC57 ONLY)

- **GPS**: TC57 only: Autonomous, Assisted GPS (A-GPS), Navstar, GLONASS, Galileo, BeiDou
- **WIRELESS LAN**: Radio  
  TC52: IEEE 802.11a/b/g/n/ac/5GHz; Wi-Fi** certified; IPv4, IPv6; 802.11a/b/g/n/ac/5GHz; Wi-Fi** certified; IPv4, IPv6, 5GHz 2x2 MIMO  
  TC57: IEEE 802.11a/b/g/n/ac/5GHz; Wi-Fi** certified; IPv4, IPv6, 5GHz 2x2 MIMO
- **Data Rates**: 5GHz: 802.11a/n/ac up to 867 Mbps  
2.4GHz: 802.11b/g/n up to 300 Mbps
- **Operating Channels**: Channel 1-13 (2412-2472 MHz); Channel Bandwidth: 20, 40, 80 MHz Actual operating channels/frequencies and bandwidths depend on regulatory rules and certification agency

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TC52/TC57 Specifications (continued)

WIRELESS LAN (CONTINUED)

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<th>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</th>
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WIRELESS PAN

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

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 — Asset Visibility Service (AVS) and Operational Visibility Service (OVS)

1. Upgrading to new supported versions of Android requires the purchase of a Zebra OneCare Service contract
2. Based on typical user profiles
3. Available Q1 2019
Specifications subject to change without notice.

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-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