Zebra RFID

Interactive Kiosks

Accessories

Software

OEM

**Tablets** 

Locating Systems Hardware and Software

Temperature Monitoring and Sensing

**Partners Mobile Computers** Handheld Computers **Tablets** Vehicle Mount Computers Wearable Computers

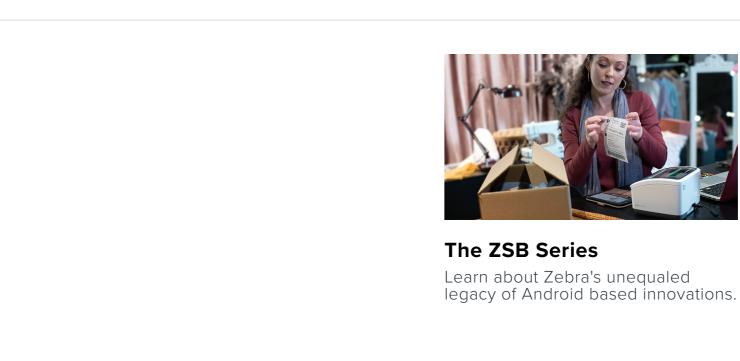
RFID Handheld Readers

Healthcare Mobile Computers

**Mobile Computing Resources** Mobility DNA Software Mobile Computer Software Mobile Computer and Tablet Accessories Mobile Computers Support **Tablets Support** Product Disinfecting Guide **Product Security** 

easy to read, even in bright sunlight.

Easily capture it all — barcodes, labels and documents



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CONTACT ZEBRA



### 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.

regardless of condition. The expanded working range and wide field of view allow workers to scan barcodes nearer and farther away, while omnidirectional scanning

gloved finger or a stylus. And with best-in-class outdoor readability, the screen is

Advanced scanning technology and PRZM Intelligent Imaging deliver lightning fast

capture of printed and electronic 1D and 2D barcodes, including Digimarc —

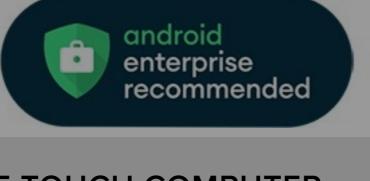
delivers true point and shoot performance — no need to ever align the device with the barcode. Need to capture multiple barcodes on a single label or data on a form, such as checkboxes, text fields, signatures and more? You can do it all with the press of a single button with Zebra's SimulScan, a no-cost pre-installed Mobility DNA application. Full shift power your workers can count on The PowerPrecision+ high capacity battery delivers an impressive 14 hours of

power<sup>1</sup> — 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.





### THE TC52/TC57 — THE ULTIMATE ENTERPRISE TOUCH COMPUTER. For more information, visit www.zebra.com/tc52 and www.zebra.com/tc57

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 business-class accessories that make the TC52/TC57 easier to use and manage, vulnerable device features.

A platform to handle all your apps — today and tomorrow The ultra-powerful processor provides superior performance on all voice and data

and future apps, such as artificial intelligence. Rich locationing support Easily implement locationing with support for many technologies, including Visible

apps. You also get built-in support for the next two versions of Android (P and Q)<sup>2</sup>

Light Communication (VLC), Bluetooth 5.0 BLE and WiFi, plus Zebra's SmartLens and MotionWorks 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 —

With the new front-facing camera, you get built-in support for the latest positioning technology, Visible Light Communication (VLC) which allows you to track the

New 5 MP front-facing camera supports more advanced apps

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. It is certified on leading public safety networks, including AT&T FirstNet and Verizon, assuring responders

have the connectivity they need even when networks are overloaded in crisis

location of shoppers and workers with compatible overhead LED lighting. Video

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.

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

Bluetooth 5.0 for twice the speed and four times the 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.

Maximize productivity with enterprise accessories Unlike consumer smartphones, you get a full suite of backward compatible from a snap-on trigger handle for easier scanning to unique ShareCradles that

DRIVE WORKFORCE PRODUCTIVITY, EFFICIENCY AND DEVICE VALUE TO A NEW LEVEL WITH

charge it all — devices and batteries.

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.

### SPECIFICATIONS **Physical Characteristics**

Dimensions

situations.

even in the noisiest areas.

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
lmager 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

## **Performance Characteristics**

**Buttons** 

CPU	Qualcomm Snapdragon™ 660 octa-core, 2.2 GHz
<b>Operating System</b>	TC52: Android 10; upgradeable through A11/R <sup>3</sup> TC57: Android 10; upgradeable through A11/R <sup>3</sup> Both with Zebra's Restricted Mode for control over GMS and other services.
Memory	4GB RAM/32GB Flash

Voice; and SWB & FB audio

up/down buttons

Six programmable buttons for maximum flexibility:

Back button, dual dedicated scan buttons,

dedicated push-to-talk button and volume

ser 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 or exceeds 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

teractive 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

## Data Capture

Scanning	SE4710 imager (1D and 2D) with extraordinary 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
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
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

### Wireless WAN Data and Voice Communications (TC57 Only)

ily)	
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
GPS	TC57 only: Autonomous, Concurrent GPS; GLONASS; Gallileo; BeiDou, and A-GPS. Supports IZAT™ XTRA
Multimedia	Wi-Fi Multimedia™ (WMM) and WMM-PS; Including TSPEC

# Wireless LAN

Radio	TC52: IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v3/w; Wi-Fi <sup>™</sup> certified; IPv4, IPv6, 2x2 MU-MIMO TC57: IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v3/w; Wi-Fi <sup>™</sup> certified; IPv4, IPv6, 5GHz 2x2 MU-MIMO
Data Rates	5GHz: 802.11a/n/ac — up to 866.7 Mbps 2.4GHz: 802.11b/g/n — up to 300 Mbps
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.
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
Certifications	WFA (802.11n, WMM-PS, 801.11ac, PMF)
Fast Roam	PMKID caching; Cisco CCKM; 802.11r; OKC

### Wireless PAN Class 2, Bluetooth v5.0, Bluetooth Low Energy (BLE) Bluetooth

/	arranty
	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

# www.zebra.com/warranty

complete warranty statement, please visit:

**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

2. Upgrading to new supported versions of Android requires the purchase of a Zebra OneCare Service contract 3. Support for future Android OS released past A11/R, are subject to Qualcomm validation 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

and a Support Contract may be required. To learn what solutions are supported, please visit: https://developer.zebra.com/mobilitydna

Mobility DNA is available on Android only. Features may vary by model



Retail Managers

 Price/inventory checks Loyalty apps Item locator Price management Line busting/POS Assisted selling Electronic coupons Store transfers Gift registry lookup

Retail Associates

 Planogram management Promotion compliance Merchandising

Workforce management

 Order automation Delivery tracking Inventory management Customer support

Direct Store Delivery Drivers

Field Service Technicians

services Light Courier Drivers Proof of delivery Asset management Location services Invoicing Government and Public Safety

Asset management

Parts inventory



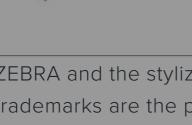


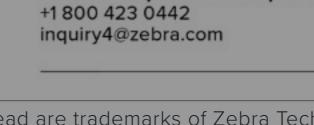


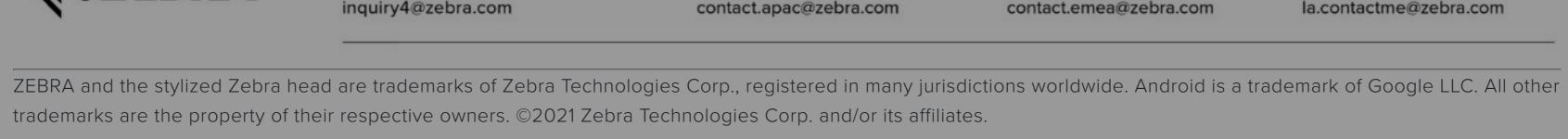
Scheduling and location-based

Invoicing

 eCitation Situational awareness Communication and collaboration; Asset management







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Story Hub/Newsroom

Global Locations

Corporate Social Responsibility

Investors

Discover

Connect with our team