

TC53/TC58 Mobile Computer

Powering a new generation of data collection

Introducing the TC53 and TC58, the first members of a new generation of Zebra mobile computers designed to do more. What makes these devices so different? New hardware redefines mobile computing performance. New solutions and sensor technologies redefine the world of possibilities — from mobile payment to parcel dimensioning. All the latest wireless technologies give workers faster and more reliable access to information they need to get the job done — including 5G, Wi-Fi 6E and CBRS (US only). A class-leading 6-inch screen lets workers see more, do more — and scroll less. Zebra-only Mobility DNA™ tools deliver built-in advantage, maximizing user productivity while minimizing IT complexities throughout the entire device lifecycle. New manufacturing technologies make the TC53 and TC58 thinner — yet even more rugged. The result? A new generation of data collection. A new level of operational efficiency. And a new level of workforce productivity. The TC53/TC58 — driving new possibilities into the world of mobility.



Industry-best innovations from the casing to the processor

Blazing speed

Get virtually instant response times in the most demanding applications with class-leading processing power, memory and storage — the next-generation Qualcomm 6490 octa-core processor, up to 8 GB of RAM and 128 GB of Flash, plus a 2 TB MicroSD card slot.

All the latest wireless connections

Give your workers the fastest speeds with Wi-Fi 6E and 5G. And support for CBRS private LTE networks enables cost-effective wireless connectivity in the largest indoor and outdoor facilities.

Industry-leading 6-inch advanced display

Get the largest, highest resolution and brightest display in this product class. Screens are easy to read indoors and outside. Edge-to-edge technology means more information and less scrolling. It works when wet. And workers can use a stylus or finger, with or without a glove — no need to change modes.

Thinner and tougher

An ergonomic design and advanced manufacturing and materials technology make the TC53 and TC58 thinner, yet rugged.

Unmatched battery technology

Get full shift power and the intelligence to better manage batteries with Zebra's PowerPrecision+ standard 4400 mAh and extended 6600 mAh batteries.

Hear every word on every call

With three integrated microphones, two speakers and support for wireless and wired headsets, collaboration is easy.

Capture ultra-high resolution photos and video intelligence

The 16 MP integrated camera offers the highest resolution in its class. And with optional Optical Image Stabilization (OIS), it's easy to capture sharp, detailed photographs to document proof of condition, proof of delivery and more.

Choose standard or advanced range scanning

Choose the SE4720 1D/2D scan engine for standard scanning ranges or the SE55 1D/2D Advanced Range scan engine with

Intellifocus™ technology to scan items in hand or across the room. Both options deliver split-second first time capture of virtually every barcode, regardless of condition.

Comprehensive accessories for every job

This accessory family offers it all — charging and Ethernet cradles for the desktop and backroom, accessories for in-vehicle use, a trigger handle for intensive scanning tasks, an RFID adapter and an adapter cup for backwards compatibility with existing TC5x multi-slot ShareCradles and more.

Solutions that define a new age of mobility**Calculate accurate parcel dimensions — and shipping charges**

Zebra Dimensioning™ Certified Mobile Parcel¹ is an industry-first solution that utilizes the integrated Time of Flight sensor to collect accurate 'legal for trade' parcel dimensions in just seconds, with the simple press of a button. Pricing is accurate and workers are more productive — no need to manually measure boxes.

Create a mobile-driven workstation

Just drop the TC53/TC58 into a Workstation cradle¹ to connect to a monitor, keyboard, mouse, printer and more, eliminating the need to purchase and manage separate fixed workstations.

Create a complete hybrid Point-of-Sale (POS)

Drop the TC53/TC58 into the Workstation Point-of-Sale cradle¹ to connect to everything needed to create a complete POS — such as a large display, scanner, receipt printer, payment terminal, keyboard and mouse.

Add lightning-fast RFID

Take inventory in record time with the standard range RFD40 and standard or extended range RFD90 Ultra-Rugged UHF RFID sleds. These sleds read an impressive 1,300 tags per second. Connect the sleds via a Bluetooth, NFC or Zebra's eConnex™ adapter. And Wi-Fi 6E enables easy over-the-air management of the mobile computers and their attached sleds.

Add two-way radio capabilities

Keep workers everywhere connected with the press of a button. Inside your facility, optional Push-to-Talk (PTT) Express enables instant PTT walkie-talkie style calls over the Wi-Fi network, right out of the box. Out in the field, optional PTT Pro enables PTT calling and secure messaging over the cellular network through an easy-to-

deploy cost-effective subscription service.

Add PBX handset functionality

Add fully-featured PBX handset functionality with Zebra's Workforce Connect Voice. The need to purchase and manage additional voice-enabled devices is eliminated. And a custom interface makes it easy to execute even the most complex telephony features.

Drive workforce productivity and device value to a new level with Mobility DNA**Simplify device integration**

Create rich apps that take full advantage of your device's capabilities with Enterprise Mobility Management Tool Kit. Build feature-rich web applications with Enterprise Browser. And easily capture and integrate barcode data into your apps without writing any code with DataWedge API.

Increase device security

Keep your devices secure every day they are in service with LifeGuard™ for Android™². And restrict apps and device features with Enterprise Home Screen.

Deploy devices quickly and easily

Let your devices provision themselves right out of the box with Zebra Zero-Touch. Stage a handful or thousands of devices with a scan of a barcode or tap on an NFC tag with StageNow.

Make device management simple and easy

Locate missing devices quickly and easily with Device Tracker — and with the BLE battery, you can find devices even if they are turned off or the battery is dead. Get dependably superior Wi-Fi connections with Wireless Fusion. Control which Google Mobile Services are active on your devices with GMS Restricted Mode. Test major device systems to eliminate unnecessary trips to the repair depot with Device Diagnostics.

Increase on-the-job productivity

Easily manage Bluetooth accessories with Device Central. Convert 'green' screens to intuitive all-touch modern screens with All-touch Terminal Emulation. Give workers a keyboard designed for your data with Enterprise Keyboard. Capture only the barcodes you want with Simulscan. Capture standardized data such as drivers licenses, license plates with OCR Wedge. And more.

Specifications

Physical Characteristics	
Dimensions	6.48 in. L x 3.04 in. W x 0.66 in. H 164.8 mm L x 77.35 mm W x 16.75 mm H
Weight	10.3 oz./293 g with standard battery
Display	6.0 in. Full High Definition; 1080x 2160; LED back-light; 600 NITS; optically bonded to touch panel
Imager Window	Corning® Gorilla® Glass 5
Touch Panel	Multi-mode capacitive touch with bare or gloved fingertip input or conductive stylus (sold separately), Corning Gorilla Glass; water droplet rejection; fingerprint resistant anti-smudge coating
Power	Rechargeable Li-Ion, PowerPrecision+ for real-time battery metrics; 17.71 Watt hours; Standard capacity: 4400 mAh; Extended capacity: 6600 mAh; BLE battery: 4400 mAh; Qi compatible Wireless charge battery: 4400 mAh; fast charging Warm Swap battery mode (standard SKUs); Hot Swap battery mode (premium SKUs)
Expansion Slot	User accessible microSD card supports up to 2 TB
SIM	TC58 only: 1 nano SIM; 1 eSIM
Network Connections	TC53: WLAN, WPAN (Bluetooth) TC58 only: WWAN 5G
Notifications	Audible tone; multi-color LEDs; haptic feedback
Keypad	On-screen keypad and enterprise keyboard
Voice and Audio	Three microphones with noise cancellation; vibrate alert; dual speakers for loudness; Bluetooth wireless headset support; high quality speaker phone; PTT headset (3.5 mm and Zebra USB-C) support; cellular circuit switch voice; HD voice; Super-wideband (SWB) and Fullband (FB) audio; 3.5 mm audio jack only on WLAN SKUs
Buttons	Programmable buttons for maximum flexibility: dual dedicated scan buttons, dedicated push-to-talk button, volume up/down buttons and trigger button of trigger handle via Back I/O.
Interface Ports	USB 2.0 (Back I/O - Host Only), USB 3.0 (Bottom Type C) - Super Speed (Host and Client)
Performance Characteristics	
CPU	Qualcomm 6490 octa-core, 2.7 GHz
Operating System	Android 11; upgradeable to Android 14
Memory	4GB RAM/64GB UFS Flash; 8GB RAM/64GB UFS Flash; 8GB RAM/128GB UFS Flash
Security	FIPS 140-2 Validated (ISO 19790) and Common Criteria certified (ISO 15408); FIPS 140-2 cryptography can be enabled on select configurations through a custom SKU request; 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% to 95% non-condensing
Sealing	IP68 and IP65 with battery per applicable IEC sealing specifications

Drop Specifications	Multiple 6 ft./1.8 m drops to concrete over operating temp (-20°C to 50°C/-4°F to 122°F) with protective boot per MIL STD 810H; Multiple 5 ft./1.5 m drops to tile over concrete (-10°C to 50°C/14°F to 122°F) per MIL STD 810H
Tumble Specification	1000 1.6 ft./0.5 m tumbles at room temperature without protective boot, meets or exceeds IEC tumble specification; 1000 3.2 ft./1.0 m tumbles at room temperature with protective boot, meets or exceeds IEC tumble specification
Electrostatic Discharge (ESD)	+/- 15 kV air discharge; +/- 8 kV direct discharge; +/- 8 kV indirect discharge
General Certifications	
TAA compliant; ARCore Google certification sustained	
Automated Interactive Sensor Technology (IST)	
Light Sensor	Adjusts display backlight brightness
Magnetometer	eCompass to detect direction and orientation (not available in the base LAN model)
Motion Sensor	3-axis accelerometer with MEMS Gyro
Pressure Sensor	Detects altitude information for locating
Proximity Sensor	Disables display output and touch input when placed against head during a call
Gyro	Senses linear orientation
Data Capture	
Scanning	SE55 1D/2D Advanced Range Scan Engine with IntelliFocus™ technology; SE4720 1D/2D Scan Engine
Camera	Front—8 MP; Rear—16 MP autofocus; flash LED generates balanced white light; supports Torch mode + HDR (standard); Optical Image Stabilization (OIS) (premium SKUs only), Time of Flight (ToF) Sensor (premium SKUs only)
NFC	ISO 14443 Type A and B; FeliCa and ISO 15693 cards; Card Emulation via Host; Contactless payment support, ECP1.0 and ECP2.0 polling support, Apple VAS certified
Wireless WAN, Data and Voice Communications (TC58)	
GPS	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
Radio Frequency Band	North America: 5G FR1: n2/5/7/12/13/14/25/26/29/38/41/48/66/71/77/78; 4G: B2/4/5/7/12/13/14/17/25/26/29/38/41/48/66/71; 3G: B2/4/5; 2G: 850/1900 Rest of World: 5G FR1: n1/2/3/5/7/8/20/28/38/40/41/66/71/77/78; 4G: B1/2/3/4/5/7/8/17/20/28/38/39/40/41/42/43/66/71; 3G: 1/2/3/4/5/8; 2G: 850/900/1800/1900 China/Japan: 5G FR1: n1/3/5/8/38/40/41/77/78/79; 4G: B1/3/5/7/8/19/34/38/39/40/41/42; 3G: B1/5/8/19; 2G: 850/900/1800 Supports private networking (LTE/5G)
Wireless LAN	
Radio	IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w/mc/ax; 2x2 MU-MIMO; Wi-Fi™ 6E (801.11ax); Wi-Fi certified; Wi-Fi™ 6E Certified; Dual Band Simultaneous; IPv4, IPv6

Markets and Applications

Retail Associates

- Price/inventory checks
- Item locator
- Line busting/Mobile Point of Sale
- Assisted selling
- Task management
- Front of store replenishment
- Price management
- Inventory/cycle counts

Retail Managers

- Workforce mgmt
- Planogram mgmt
- Promotion compliance
- Merchandising
- Back of store management

Field Service Technicians

- Asset mgmt
- Parts inventory
- Invoicing/Mobile Point of Sale
- Scheduling

Postal Carriers/ Courier Drivers

- Proof of delivery/condition
- Asset mgmt
- Invoicing/Mobile Point of Sale
- Location services

PRODUCT SPEC SHEET**TC53/TC58 MOBILE COMPUTERS**

Data Rates	5GHz: 802.11a/n/ac/ax—20MHz, 40MHz, 80MHz, 160MHz - up to 2402 Mbps 2.4GHz: 802.11b/g/n/ax—20MHz up to 286.8 Mbps 6GHz: 802.11ax - 20MHz, 40MHz, 80MHz, 160MHz - up to 2402 Mbps
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	WEP (40 or 104 bit); WPA/WPA2 Personal (TKIP, and AES); WPA3 Personal (SAE); WPA/WPA2 Enterprise (TKIP and AES); WPA3 Enterprise (AES) — EAP-TTLS (PAP, MSCHAP, MSCHAPv2); EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC, LEAP, EAP-PWD); WWAN device only — EAP-SIM, EAP-AKA; WPA3 Enterprise 192-bit mode (GCMP256) — EAP-TLS; Enhanced Open (OWE)
Certifications	Wi-Fi Alliance Certifications: Wi-Fi CERTIFIED n; Wi-Fi CERTIFIED ac; Wi-Fi CERTIFIED 6; Wi-Fi Enhanced Open; WPA2-Personal; WPA2-Enterprise; WPA3-Personal; WPA3-Enterprise (includes 192-bit mode); Protected Management Frames; Wi-Fi Agile Multiband; WMM; WMM-Power Save; WMM-Admission Control; Voice-Enterprise; Wi-Fi Direct; QoS Management; OCE
Fast Roam	PMKID caching; Cisco CCKM; 802.11r; OKC

Mobility DNA

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

Wireless PAN

Bluetooth	Class 2, Bluetooth v5.2; secondary Bluetooth Low Energy (BLE) for beaconing within BLE battery
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Environmental Compliance

RoHS Directive 2011/65/EU; RoHS Amendment (EU) 2015/863; (EN IEC 63000:2018 Standard); 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 TC53/TC58 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; For information on Zebra services, please visit www.zebra.com/services

Footnotes

1. Workstation cradles and Certified Mobile Parcel available in 2H 2022
2. LifeGuard for Android is included with every Zebra OneCare Support agreement. Some features are available through a supported EMM. Specifications subject to change without notice. For details related to Common Criteria support, please visit: www.zebra.com/commoncriteria



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