



# 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 (North America only). A class-leading 6-inch screen lets workers see more, do more — and scroll less. Zebra-only Mobility DNA<sup>TM</sup> 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 lighter — 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.

#### Lighter, thinner and tougher

Additive Molding<sup>™</sup> is a first-of-its kind manufacturing and materials technology that enables the use of advanced composites to make the TC53 and TC58 lighter and more 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







Empower a new generation of data collection possibilities in your organization with the extraordinarily innovative TC53/TC58.

TC53/TC58 MOBILE COMPUTERS



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 cradle<sup>1</sup> to connect to a monitor, keyboard, mouse, printer and more, eliminating the need to purchase and manage separate fixed workstations.

#### Create a complete fixed 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-todeploy 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  $^{\text{TM}}$  for Android  $^{\text{TM}\,2}$ . 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.



Zapraszamy do kontaktu! Więcej informacji: www.kreski.pl



# **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 backlight; 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-lon, 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 Chara	cteristics
CPU	Qualcomm 6490 octa-core, 2.7 GHz
Operating System	Android 11; upgradeable to Android 14
Memory	4GB RAM/64GB UFS Flash; 4GB RAM/128GB 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

User Environment (c	ontinued)
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 a 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 Certification	ns
TAA compliant; ARCore Go	ogle certification sustained
Automated Interacti	ve Sensor Technology (IST)
Light Sensor	Adjusts display backlight brightness
Magnetometer	eCompass to detect direction and orientation
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 Stabilizatio (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, OZSS 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: n2/5/7/12/13/14/25/26/2/38/41/48/66/71/77/78; 4G: B2/4/5/71/2/13/14/17/2/26/29/38/41/48/66/71; 3G: B2/4/5; 2G: 850/190(Rest of World: 5G FR1: n1/2/3/5/7/8/20/28/38/40/41/66/71/77/78; 4G: B1/2/3/4/5/18/17/20/28/38/39/40/41/42/43/66/71; 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: B1/3/5/7/8/13/34/38/39/40/41/42; 3G: B1/5/8/19; 2G: 850/900/180(Supports private networking (LTE/5G)
Wireless LAN	
Radio	IEEE 802.11 a/b/g/n/ac/d/h/ii/r/k/v/w/mc/ax; 2x2 MU-MIMO; Wi-Fi <sup>w</sup> 6E (801.11ax); Wi-Fi certified; Wi-Fi <sup>w</sup> 6E Certified; Dual Band Simultaneous;

# 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

Wireless LAN (contin	Tueuj
Data Rates	<b>5GHz:</b> 802.11a/n/ac/ax—20MHz, 40MHz, 80MHz, 160MHz - up to 2402 Mbps; <b>2.4GHz:</b> 802.11b/g/n/ax—20MHz up to 286.8 Mbps <b>6GHz:</b> 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, 132,136,140,144,149,153,157,161,16 5; 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-Powe Save; WMM-Admission Control; Voice-Enterprise; Wi-Fi Direct; QoS Management; OCE
Fast Roam	PMKID caching; Cisco CCKM; 802.11r; OKC
Wireless PAN	
Bluetooth	Class 2, Bluetooth v5.2; secondary Bluetooth Low Energy (BLE) for beaconing within BLE battery

#### **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**

Workstation cradles and Certified Mobile Parcel available in 2H 2022
 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

# **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



Zapraszamy do kontaktu! Więcej informacji: www.kreski.pl

# **Mobility DNA**

# Your mobile computer's built-in advantage

Mobility DNA offers secure solutions to help deploy, manage and support every stage of your devices' lifecycle to achieve and accelerate greater business outcomes, lower TCO and address your unique business needs.





Easily capture and send barcode data into your apps without writing code

#### **Enterprise Browser**

Easily build feature-rich web apps that utilize all device features

#### **Enterprise Mobility Management Tool Kit**

Create rich apps that take full advantage



Secure

#### LifeGuard™ for Android™

Easily keep your devices secure every day they are in service

#### **Enterprise Home Screen**

Specify which apps users can access, disable device features and automatically launch apps

# Deploy

#### StageNow

Stage a handful or thousands of devices with a scan of a barcode or tap on an NFC tag

#### Zebra Zero-Touch

Let your devices provision themselves right out of the box



Optimize

**All-touch Terminal Emulation** 

Convert legacy, green screens

into an all-touch, modern UX

Effortlessly capture up to 100 barcodes simultaneously

**Enterprise Keyboard** 

designed for your data

Migrate CE windows mobile applications

Simulscan

**OCR Wedge** Capture standardized data such as drivers licenses and license plates

TekTerm

to Android

Give workers a keyboard

**Device Central** 

# **Device Diagnostics**

Test major device systems to eliminate costly and unnecessary trips to the repair depot

# **Device Tracker**

Locate missing devices quickly and easily even if they are turned off or the battery is dead

# **GMS Restricted Mode**

Turn off the Google Mobile Services you don't want

#### **Mobility Extensions**

Add features to protect business data and network access

#### Wireless (Fusion)

Get dependably superior Wi-Fi connections

# Wireless (Analyzer)

Capture and analyze wireless data and voice to improve connectivity performance

# RxLogger

Capture system and application logs to identify problems

#### **OEMConfig (Mx)**

A unified interface for all Zebra value-added APIs via an EMM

# Enterprise-ready rich accessory ecosystem



# **Workstation Cradle**

Create a mobile-driven workstation; connect to a monitor, keyboard, mouse, printer and more



#### **Point of Sale Cradle**

Create a complete POS — large display, scanner, receipt printer, payment terminal, cash drawer, keyboard and mouse



# 2-slot cradle

Charges one mobile computer and one spare battery simultaneously



# **Multiple charging options**

Single slot and multi-slot cradles for the backroom; multi-slot spare battery chargers; adapter cup for backward compatibility with existing ShareCradles



# Vehicle chargers and cradles

Wireless vehicle charging cradle, vehicle holder (non-charging)



# Rugged protective case

Adds another level of durability



# Attachable trigger handle

Rapid fire scanning and added comfort for scan-intensive applications



# RFD40/RFD90 eConnex RFID sleds

Lightning-fast inventory cycles; sleds read 1,300 tags per second; snap and go pairing with eConnex



# Fiber tipped stylus

Passive stylus made from stainless steel and brass; mesh fiber tip for smooth gliding; works in rain



# Rugged HD voice headsets

Bluetooth and corded models; dustproof, sprayproof and waterproof; superior voice quality

And more...





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