

TC70 Series Rugged Touch Computer

Your Front Line to a Smarter Enterprise



Enterprise-Class Android with Multiple Configurations to Meet Your Needs

With the TC70 Series, you can leverage the power of Android, while choosing the configuration that best fits your technology and business needs. Every Android TC70 Series ships with Mobility Extensions (Mx), a series of features that make Android a more robust enterprise-class operating system. Mx minimizes IT support time and maximizes worker productivity and device uptime by providing better control of your mobile devices, application access and Wi-Fi performance and security. Standard Configuration TC70 and TC70x Android devices come with Google Mobile Services (GMS) which provides integrated Google applications such as Gmail and Google Maps. Professional Configuration TC70 and TC70x Android devices ship without GMS, removing GMS applications and services. Both configurations are based on Android Open Source (AOSP) and ship with respective Android Enterprise functionality.

World-Class Data Capture

Give your employees the tools they need to work faster and smarter. The integrated enterprise-class imager offers Zebra's proprietary PRZM Intelligent Imaging technology, a megapixel sensor and advanced optics, which work together to deliver data capture performance in a class of its own. Workers can capture 1D and 2D barcodes in virtually any condition, at lightning speed. The rear-facing camera enables the easy capture of high-resolution photos, signatures, videos and more, allowing you to capture more types of business intelligence to streamline more business processes. The front camera allows workers to place a video call to get the help they need — and provide customers with that personal touch. Near Field Communications offers simple Tap and Pair device pairing with compatible printers, and automates identity verification at facility entry points.

Maximum Data Entry Flexibility with an Industry Leading Dual Mode Touch Panel

Let your users choose their preferred data input pair: finger and gloved finger or finger and stylus — ideal for crisp signature capture. The intelligent display automatically adjusts as needed, unlike competitive devices that require setting adjustments every time the user switches data input method. And the large 4.7 in. display takes the capacitive touch experience to the next level — it works even if it's wet.

Comprehensive Audio Functionality for a New Level of Voice Flexibility

With up to four times the loudness of popular smartphones and noise cancelling technology, the TC70 Series provides crystal clear audio on both ends of every call. Android supports Workforce Connect Push-to-Talk Express to give workers walkie-talkie style voice communications right out of the box. The result? A highly collaborative workforce that can respond instantly to customer needs.

Mobility DNA

Every strand of your Android mobility platform is simpler with Zebra's Mobility DNA. That's because, from the start, you have the industry's most comprehensive suite of mobility must-haves to accelerate your solution. More off-the-shelf end-user apps, more robust administration utilities and easier app development. Purpose built for the enterprise, Mobility DNA makes ease, confidence and value intrinsic to your investment and our full line of Android mobile computers.

Rugged and Ready for All-Day Every Day Enterprise Use

The TC70 Series is ready for the demands of everyday life in the business world, tested and proven to operate reliably after multiple 6 ft./1.8 m drops to concrete and 2,000 consecutive 3.2 ft./1 m tumbles in our punishing tumble test. With IP65 and IP67 sealing, you get a device that is dust-tight and can survive complete immersion in water, making it ideal for use in the retail backroom, warehouse floor, in outdoor shopping areas or outside on a receiving dock. The Corning Gorilla Glass touch panel and scanner exit window bring a new level of durability to two of the most vulnerable components.



The TC70 Series — The Professional Grade Device for the Enterprise.

For more information, visit www.zebra.com/tc70series.

PowerPrecision+ Battery for Best-in-Class Power and Managability³

- Your workers depend on their mobile devices nearly every minute of the workday. This user replaceable battery ensures that workers have plenty of power for the longest shift and devices are always available. A wealth of easily accessible battery metrics make it easier than ever to identify, remove and replace aging batteries. And with Warm Swap mode, it lets users change the battery without having to power down the device or close open apps.

A Robust Accessory Family to Meet Any Enterprise Need

- The comprehensive family of accessories includes a snap-on magnetic stripe reader for mobile payment, a Bluetooth mobile payment device for magnetic stripe and Chip and PIN, a holster, a hand strap, a snap-on trigger handle and more, allowing you to easily meet the needs of many different types of users performing many different types of tasks. And multi-slot battery chargers and the unique ShareCradle — a multi-slot cradle that can accommodate the TC70 Series and future Zebra devices — make backroom management easy and cost effective.

TC70 Series Specifications

Physical Characteristics

Dimensions	6.3 in. L x 3.3 in. W x 1.1 in. D 161 mm L x 84 mm W x 28 mm D
Weight	13.3 oz./376 g
Display	4.7 in. High Definition (1280 x 720); exceptionally bright, outdoor viewable; optically bonded to touch panel
Imager Window	Corning Gorilla Glass
Touch Panel	Dual mode capacitive touch with stylus, finger or gloved fingertip input (conductive stylus sold separately); Corning Gorilla Glass
Backlight	LED backlight
Power	Li-Ion 3.7 V, 4620 mAh. PowerPrecision/PowerPrecision+1: Improved battery technology for longer cycle times and real-time visibility into battery metrics for better battery management.
Expansion Slot	TC70: User accessible MicroSD with 32GB SDHC and up to 64GB SDXC TC70x: User accessible MicroSD with 32GB SDHC and up to 128GB SDXC
Network Connections	WLAN, WPAN (Bluetooth)
Notification	Audible tone; multi-color LEDs; vibration
Keypad	On-screen keypad; Enterprise Keyboard
Voice and Audio	Three microphone support with noise cancellation; vibrate alert; speaker; Bluetooth wireless headset support

Performance Characteristics

CPU	TC70: 1.7 GHz dual core processor TC70x: 1.8 GHz hexa-core 64 bit processor
Operating System	TC70: Android 5 Lollipop TC70x: Android 8.1 (Oreo)
Memory	TC70: 1 GB RAM / 8 GB Flash pSLC TC70x: 2 GB RAM / 16 GB Flash pSLC or 4 GB RAM / 32 GB Flash pSLC

User Environment

Operating Temperature	-4° F to 122° F/-20° C to 50° C
Storage Temperature	-40° F to 158° F/-40° C to 70° C
Humidity	5% to 85% non-condensing
Drop Specification	Multiple 6 ft./1.8 m drop to concrete across full operating temperature range, multiple 8 ft./2.4 m drop to concrete at room temperature per MIL-STD 810G
Tumble Specifiication	2,000 3.2 ft./1.0 m tumbles; meets and exceeds IEC tumble specifications
Sealing	IP65 and IP67 per applicable IEC sealing specifiications
Vibration	4 g's PK Sine (5 Hz to 2 kHz); 0.04g2/Hz Random (20 Hz to 2 kHz); 60 minute duration per axis, 3 axis

Wireless LAN

Radio	TC70: IEEE 802.11a/b/g/n/d/h/i/k/r TC70x: IEEE 802.11a/b/g/n/ac/d/h/i/k/r/w
Data Rates	TC70 5GHz: 802.11a/n — up to 150 Mbps; 2.4GHz: 802.11b/g/n — up to 72.2 Mbps TC70x 5GHz: 802.11a/n/ac — up to 866.7 Mbps; 2.4GHz: 802.11b/g/n — up to 144.4 Mbps
Operating Channels	TC70: Chan 1 - 13 (2412 - 2472 MHz); Chan 36 - 165 (5180 - 5825 MHz); Channel Bandwidth: 20, 40 MHz TC70x: Chan 1 - 13 (2412 - 2472 MHz), Chan 36 - 165 (5180 - 5825 MHz); Channel Bandwidth: 20, 40, 80 MHz Actual operating channels/ frequencies depend on regulatory rules and certification agency
Security and Encryption	TC70: WEP (40 or 104 bit); WPA/WPA2 Personal (TKIP, and AES); WPA/WPA2 Enterprise (TKIP, and AES) — EAPTTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PE APv0-MSCHAPv2, PE APv1-EAP-GTC, EAP Fast and LEAP TC70x: 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 Data in Motion: FIPS 140-2 Level 1 Data at Rest: FIPS 140-2 Level 1
Multimedia	TC70/TC70x Android: Wi-Fi Multimedia™ (WMM) and WMM-PS
Certifications	TC70: WFA (802.11n, WMM, WMM-PS, Wi-Fi Direct, Miracast, Soft-AP, WPS 2.0) and Cisco CCXv4 TC70x Android: (802.11n, 802.11ac, WMM-PS, WMM-AC, Voice Enterprise, Miracast)
Fast Roam	TC70/TC70X Android: PMKID caching, Opportunistic Key Caching (OKC), Cisco CCKM and FT (802.11r)

Wireless PAN

Bluetooth	Class 2, Bluetooth v4.0 (Bluetooth® Smart technology) BT Wideband support HFPv1.6 Bluetooth v4.1 LE (TC70x only)
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Communication and Messaging

Workforce Connect PTT Express (included) provides instant push-to-talk small group communications across Wi-Fi networks. Workforce Connect PTT Pro (supported) provides a scalable network agnostic push-to-talk solution which also includes messaging, location services and two-way radio integration. Workforce Connect Voice client (supported) enables the TC70 Series to function as a full featured mobile telephone with multi line capability across Wi-Fi networks.

Warranty

Subject to the terms of Zebra's hardware warranty statement, the TC70 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:
<http://www.zebra.com/warranty>

Boost Efficiency and Customer Service with the TC70 Series in:

Retail

- Mobile payment
- Inventory management
- Voice communications

Retail - Associates:

- Price checks
- Inventory checks
- Item locator
- Price changes/price audits
- Line busting
- Assisted selling
- Product comparison
- Electronic coupons (mobile phone displays)
- Store inventory transfers
- Gift registry lookup
- Financial/loyalty applications
- Click and mortar/catalogue orders
- Training

Retail - Managers:

- Workforce management
- Planogram management
- Promotion management
- Merchandising

Manufacturing

- Asset management
- Building maintenance
- Supervisor/manager tasks:

Manufacturing - Workforce management

- Supplier management
- Management of customer data
- Management of product information

User Environment

Thermal Shock	-40° F to 158° F/-40° C to 70° C rapid transition
Electrostatic Discharge (ESD)	+/-15kVdc air discharge +/-8kVdc direct discharge +/-8kVdc indirect discharge

Audio

High quality speaker phone with up to 108 dB SPL volume; wireless (Bluetooth) headset support; PTT headset support; handset/speakerphone modes

Interactive Sensor Technology (IST)

Light Sensor	Automatically adjusts display backlight brightness
Motion Sensor	3-axis accelerometer for dynamic screen orientation

Data Capture

Scanning	SE4750 imager (1D and 2D); extraordinary range: Scan range – Code 39 barcode: 20 Mil: 1.6 in to 36.3 in/4.1 cm to 92.2 cm 3 Mil: 2.8 in to 6.2 in/7.1 cm to 15.8 cm
Camera	TC70: Front-1.3 MP fixed focus Rear - 8 MP autofocus TC70x: Front-1.3 MP fixed focus Rear - 13 MP autofocus
NFC	ISO 14443 Type A and B; FeliCa ³ , and ISO 15693 cards. P2P mode and Card Emulation via UICC and Host

Recommended Services

Zebra OneCare; Managed Device Service

1. PowerPrecision+ batteries are available only on TC70x Android models and provide advanced state of health and advanced state of charge metrics.
2. Please refer to the TC70 Series User Guide or Integrator Guide for full data capture specifications.
3. ISO 14443 Type FeliCa supported on TC70x models only.

Specifications subject to change without notice and some features may vary by model.

Additional Mobility DNA Solutions

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 and supported features may vary by model.



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