TC70 Series Rugged Touch Computer

YOUR FRONT LINE TO A SMATER ENTERPRISE

Your employees need enterprise class handheld computers to communicate and access information seamlessly in order to work more efficiently and better serve your customers — yet they want a device that is every bit as refined and easy-to-use as their own consumer devices. Now, you can give them both with the TC70 Series. With Android™ OS support, you have the most advanced and intuitive mobile operating systems fortified for use in the enterprise. The rugged design holds up even in the most demanding environments and the TC70 Series can double as a voice communications device. You can automate the capture of just about any type of business intelligence with the embedded scanner and camera. And the full complement of accessories and cutting edge technology will serve your business for years to come, for an unsurpassed return on investment. Better serve your customers in retail, manufacturing, and operations with the TC70 Series. Real competitive advantage — delivered.

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.

**PowerPrecision+ Battery for Best-In-Class Power and Manageability**

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.

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**THE TC70 SERIES — THE PROFESSIONAL GRADE DEVICE FOR THE ENTERPRISE.**

For more information, visit [www.zebra.com/tc70series](http://www.zebra.com/tc70series) or access our global contact directory at [www.zebra.com/contact](http://www.zebra.com/contact)

Boost efficiency and customer service with the TC70 Series in:

**Retail**
- Associates:
  - Price checks
  - Inventory checks
  - Item locator
  - Price changes/price audits
  - Line busting
  - Assisted selling
  - Market research
  - Store inventory transfers
  - Gift registry lookup
  - Financial/loyalty applications
  - Click and mortar/catalogue orders
- Training
- Mobile payment
- Inventory management
- Voice communications
- Managers:
  - Workforce management
  - Planogram management
  - Promotion compliance
  - Merchandising

**Manufacturing**
- Asset management
- Building maintenance
- Supervisor/manager tasks:
  - Workforce management
  - Supplier management
  - Management of customer data
  - Management of product information
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 3.7V, 4620 mAh. PowerPrecision/PowerPrecision+: 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 8.0 (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 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 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 Specification**
2,000 3.2 ft./1.0 m tumbles; meets and exceeds IEC tumble specifications

**Sealing**
IP65 and IP67 per applicable IEC sealing specifications

**Vibration**
4 g’s @ 5 Hz to 2 kHz; 0.04g/Hz Random (20 Hz to 2 kHz), 60 minute duration per axis, 3 axis

**USER ENVIRONMENT (CONTINUED)**

**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, handsfree/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/71 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™, and ISO 15693 cards.  
P2P mode and Card Emulation via UICC and Host

**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, 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) — EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PE APV0-MSCAPV2, PE APV1-EAP-GETC, 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, PE APV0-MSCAPV2, PEAPv1-EAP-GETC and LEAP  
Data in Motion: FIPS 140-2 Level 1  
Data at Rest: FIPS 140-2 Level 1

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TC70 Series Specifications (continued)

**WIRELESS LAN (CONTINUED)**

<table>
<thead>
<tr>
<th>Multimedia</th>
<th>TC70/TC70x Android: Wi-Fi Multimedia™ (WMM) and WMM-PS</th>
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</thead>
<tbody>
<tr>
<td>Certifications</td>
<td>TC70: WFA (802.11n, WMM, WMM-PS, Wi-Fi Direct, Miracast, Soft-AP, WPS 2.0) and Cisco CCXv4</td>
</tr>
<tr>
<td></td>
<td>TC70x Android: (802.11n, 802.11ac, WMM-PS, WMM-AC, Voice Enterprise, Miracast)</td>
</tr>
<tr>
<td>Fast Roam</td>
<td>TC70/TC70X Android: PMKID caching, Opportunistic Key Caching (OKC), Cisco CCKM and FT (802.11n)</td>
</tr>
</tbody>
</table>

**WIRELESS PAN**

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

**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.

**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.

- Enterprise Keyboard
- Enterprise Home Screen
- Stage Now
- LifeGuard
- EMDK
- Enterprise Browser
- SimulScan
- Mobility Extensions

Mobility DNA is available on Android only and supported features may vary by model.

**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](http://www.zebra.com/warranty)

**RECOMMENDED SERVICES**

Zebra OneCare; Managed Device Service

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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.