



ZEBRA

# TC70 Series Rugged Touch Computer

## YOUR FRONT LINE TO A SMARTER 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 flexible OS support, you can choose between two of the most advanced and intuitive mobile operating systems — Android™ and Windows 10 IoT Mobile Enterprise — both 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.



TC70x (Android)

### 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.

### Microsoft Windows for the Enterprise

The TC70x is also available with Windows 10 IoT Mobile Enterprise, which brings Microsoft's enterprise-grade security, manageability and connectivity to a natural user interface that's easy to use. You get numerous productivity-enhancing features such as multiple user profiles, out

of the box support for barcode scanning and other peripherals, as well as native support for popular enterprise tools like Skype for Business and MS Office. And, with Continuum and Miracast wireless display support, Windows 10 IoT Mobile Enterprise delivers PC-like productivity — Office apps scale up beautifully to a larger screen.

### 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. \*Identity verification supported on Android only.

### 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. \*Glove support and dual mode touch panel are available on Android only.

### 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 models support Workforce Connect Push-to-Talk Express to give workers walkie-talkie style voice communications right out of the box. Windows 10 IoT Mobile Enterprise offers integrated support for Skype for Business\*. The result? A highly collaborative workforce that can respond instantly to customer needs. \*Skype for Business Voice requires Zebra WLAN infrastructure for optimal performance.



### 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.

### 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.<sup>1</sup> 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.

### 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
  - Product comparison
  - Electronic coupons (mobile phone displays)
  - 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

## 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)

# TC70 Series Specifications

PHYSICAL CHARACTERISTICS	
<b>Dimensions</b>	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
<b>Weight</b>	13.3 oz./376 g
<b>Display</b>	4.7 in. High Definition (1280 x 720); exceptionally bright, outdoor viewable; optically bonded to touch panel
<b>Imager Window</b>	Corning Gorilla Glass
<b>Touch Panel</b>	Dual mode capacitive touch with stylus, finger or gloved fingertip input (conductive stylus sold separately) <sup>2</sup> ; Corning Gorilla Glass
<b>Backlight</b>	LED backlight
<b>Power</b>	 PowerPrecision/PowerPrecision+ <sup>3</sup> : Improved battery technology for longer cycle times and real-time visibility into battery metrics for better battery management. Li-Ion 3.7 V, 4620 mAh
<b>Expansion Slot</b>	TC70: User accessible MicroSD with 32GB SDHC and up to 64GB SDXC TC70x: User accessible MicroSD with 32GB SDHC and up to 128GB SDXC
<b>Network Connections</b>	USB 2.0 OTG High Speed (host and client); WLAN
<b>Notification</b>	Audible tone; multi-color LEDs; vibration
<b>Keypad</b>	On-screen keypad; Enterprise Keyboard
<b>Voice and Audio</b>	Three microphone support with noise cancellation; vibrate alert; speaker; Bluetooth wireless headset support

PERFORMANCE CHARACTERISTICS	
<b>CPU</b>	TC70: 1.7 GHz dual core processor TC70x Android-M: 1.8 GHz hex core 64 bit processor TC70x Windows 10 IoT Mobile Enterprise: 1.8 GHz hex core 64 bit processor (Snapdragon 808)
<b>Operating System</b>	 TC70: Android 5.1 Lollipop with Zebra's Mobility Extensions (Mx) TC70x: Android 6.0 Marshmallow with Mx or Windows 10 IoT Mobile Enterprise
<b>Memory</b>	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	
<b>Operating Temp.</b>	-4° F to 122° F/-20° C to 50° C
<b>Storage Temp.</b>	-40° F to 158° F/-40° C to 70° C
<b>Humidity</b>	5% to 85% non-condensing
<b>Drop Specification</b>	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
<b>Tumble Specification</b>	2,000 3.2 ft./1.0 m tumbles; meets and exceeds IEC tumble specifications
<b>Sealing</b>	IP65 and IP67 per applicable IEC sealing specifications
<b>Vibration</b>	4 g's PK Sine (5 Hz to 2 kHz); 0.04g <sup>2</sup> /Hz Random (20 Hz to 2 kHz); 60 minute duration per axis, 3 axis

USER ENVIRONMENT (CONTINUED)	
<b>Thermal Shock</b>	-40° F to 158° F/-40° C to 70° C rapid transition
<b>Electrostatic Discharge (ESD)</b>	+/-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 <sup>4</sup> ; handset/ speakerphone modes	
INTERACTIVE SENSOR TECHNOLOGY (IST)	
<b>Light Sensor</b>	Automatically adjusts display backlight brightness
<b>Motion Sensor</b>	3-axis accelerometer for dynamic screen orientation
DATA CAPTURE <sup>5</sup>	
<b>Scanning</b>	SE4750 imager (1D and 2D); extraordinary range: Scan range – Code 39 barcode: 20 Mil: 1.8 in. to 32.0 in./4.5 cm to 81.3 cm 3 Mil: 3.1 in. to 5.6 in./7.9 cm to 14.2 cm
<b>Camera</b>	Rear – 8 MP autofocus; f/2.4 aperture (TC70 and TC70x Windows 10 IoT Mobile Enterprise) Rear – 13MP autofocus (TC70x Android-M) Front – 1.3 MP fixed focus (TC70/TC70x)
<b>NFC</b>	ISO 14443 Type A and B; FeliCa <sup>6</sup> , and ISO 15693 cards. P2P mode and Card Emulation via UICC and Host

WIRELESS LAN	
<b>Radio</b>	TC70: IEEE 802.11a/b/g/n/d/h/i/k/r TC70x Android: IEEE 802.11a/b/g/n/d/h/i/r/ac TC70x Windows 10 IoT Mobile Enterprise: IEEE 802.11a/b/g/n/d/h/i/w/ac
<b>Data Rates</b>	<b>TC70</b> 5GHz: 802.11a/n — up to 150 Mbps; 2.4GHz: 802.11b/g/n — up to 72.2 Mbps <b>TC70x Android</b> 5GHz: 802.11a/n/ac — up to 866.7 Mbps; 2.4GHz: 802.11b/g/n — up to 144.4 Mbps <b>TC70x Windows 10 IoT Mobile Enterprise</b> 5GHz: 802.11a/n/ac — up to 866.7 Mbps; 2.4GHz: 802.11b/g/n — up to 300 Mbps
<b>Operating Channels</b>	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
<b>Security and Encryption</b>	TC70: WEP (40 or 104 bit); WPA/WPA2 Personal (TKIP, and AES); WPA/WPA2 Enterprise (TKIP, and AES) — EAP-TLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PE APv0-MSCHAPv2, PE APv1-EAP-GTC, EAP Fast and LEAP TC70x Android: 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 TC70x Windows 10 IoT Mobile Enterprise: WEP (40 or 104 bit); WPA/WPA2 Personal (TKIP, and AES); WPA/WPA2 Enterprise (TKIP, and AES) — EAP-TLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PE APv0-MSCHAPv2, FIPS DIM


Continued on next page

# TC70 Series Specifications (continued)

<b>WIRELESS LAN (CONTINUED)</b>	
<b>Multimedia</b>	TC70/TC70x Android: Wi-Fi Multimedia™ (WMM) and WMM-PS TC70x Windows 10 IoT Mobile Enterprise: WMM
<b>Certifications</b>	TC70: WFA (802.11n, WMM, WMM-PS, Wi-Fi Direct, Miracast, Soft-AP, WPS 2.0) and Cisco CCXv4 TC70x Android: WFA (802.11n, WMM-PS) TC70x Windows 10 IoT Mobile Enterprise: WFA (802.11n, 802.11ac, PMF, WMM)
<b>Fast Roam</b>	TC70/TC70x Android: PMKID caching, Opportunistic Key Caching (OKC), Cisco CCKM and FT (802.11r) TC70x Windows 10 IoT Mobile Enterprise: PMKID caching, Opportunistic Key Caching (OKC)

<b>WIRELESS PAN</b>	
<b>Bluetooth</b>	Class 2, Bluetooth v4.0 (Bluetooth® Smart technology) BT Wideband support HFPv1.6 Bluetooth v4.1 LE (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.








Skype for Business (TC70x Windows 10 Mobile Enterprise only); Skype for Business Voice requires Zebra WLAN infrastructure for optimal performance.

1. Magnetic Stripe Reader not supported on TC70x Windows 10 Mobile Enterprise.
2. TC70x Windows 10 IoT Mobile Enterprise supports finger/stylus input only.
3. PowerPrecision+ batteries are available only on TC70x Android models and provide advanced state of health and advanced state of charge metrics.
4. PTT not supported on TC70x Windows 10 Mobile Enterprise.
5. Please refer to the TC70 Series User Guide or Integrator Guide for full data capture specifications.
6. ISO 14443 Type FeliCa supported on TC70x models only.
7. Workforce Connect supported on Android 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](http://www.zebra.com/mobilitydna)

 <b>Enterprise Keyboard</b>	 <b>Enterprise Home Screen</b>
 <b>Stage Now</b>	 <b>AppGallery</b>
 <b>EMDK</b>	 <b>Enterprise Browser</b>
 <b>SimulScan</b>	

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>

**RECOMMENDED SERVICES**

Zebra OneCare; Managed Device Service



reddot award 2016  
winner industrial design



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ZEBRA

# TC75 Series Rugged Touch Computer

## YOUR FRONT LINE TO A SMARTER ENTERPRISE

Your field workforce needs a mobile computer to access the people and information required to maximize efficiency and better serve your customers. You want to give them an enterprise-class handheld built for life out in the field — yet your workers expect a device that is every bit as refined and easy-to-use as their own consumer smartphone. The TC75 Series is the Android™ enterprise touch computer that delivers it all. A choice of Android OS, fortified for use in the enterprise. A rugged design that delivers reliable everyday operation. Anywhere anytime access to virtually any information in your back-end systems. The ability to capture more types of data faster than ever before. Instant push-to-talk communications with co-workers out in the field as well as supervisors, dispatch and more back in the office. 4G LTE support for a robust wireless connection on the world's fastest cellular networks. And a full complement of accessories meets the unique needs of virtually any mobile worker. The TC75 Series — the easy way to empower your field teams with a true mobile office.



### **Mx — Making Android a More Robust Enterprise OS**

Every TC75 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 TC75 and TC75x devices come with Google Mobile Services (GMS) which provides integrated Google applications such as Gmail and Google Maps. Professional Configuration TC75 and TC75x 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**

An integrated enterprise-class imager offers Zebra's proprietary PRZM Intelligent Imaging technology, a megapixel sensor and advanced optics, enabling the lightning-fast capture of 1D and 2D barcodes in virtually any condition. The rear-facing color camera enables the easy capture of high-resolution photos, signatures, videos and more, so workers can capture more types of business intelligence to streamline more business processes.

The front camera allows workers to place a video call to get the on-the-spot assistance they need. And Near Field Communications 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 4.7 in. display automatically adjusts as needed, unlike competitive devices that require setting adjustments every time the user switches data input method.

### **Automatically Capture Data and Process Entire Documents**

With SimulScan Document Capture, your workers can simultaneously capture barcodes, text fields, phone numbers, images, signatures and even check boxes in the time it takes to press a button, improving invoicing speed, order speed and more.

### **Superior Audio Quality and Functionality for a New Level of Voice Flexibility**

Up to four times the loudness of popular smartphones and noise cancelling technology provides crystal clear audio on both ends of every call. Support for Workforce Connect Push-to-Talk (PTT) Express and Pro provides an instant connection to co-workers in the field, plus supervisors and other support staff back in the office.



### Mobility DNA

Every strand of your 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.

### A Robust Accessory Family for Easy On-the-Go Device Management

Accessories include a flexible vehicle cradle for charging — even with snap-on accessories attached. A magnetic stripe reader enables mobile payment. The field attachable trigger handle brings comfort

to scan intensive tasks. Select Zebra Bluetooth printers enable anywhere anytime printing. And backroom management is easier and more cost effective than ever thanks to our unique ShareCradle System that accommodates the TC75 Series and future Zebra devices.

### Rugged and Ready for All-day Every Day Use Out in the Field

The TC75 Series delivers reliable operation, even after multiple 8 ft./2.4 m drops to concrete and 2,000 consecutive 3.2 ft./1 m tumbles in our punishing tumble test. With IP65 and IP67 sealing, the TC75 Series is dust-tight and can survive complete immersion in water. And the Corning Gorilla Glass touch panel and scanner exit window bring a new level of durability to two of the most vulnerable components on any handheld device.

## THE TC75 SERIES — THE RIGHT DEVICE MAKES ALL THE DIFFERENCE.

For more information, visit [www.zebra.com/tc75series](http://www.zebra.com/tc75series) or access our global contact directory at [www.zebra.com/contact](http://www.zebra.com/contact)

### Boost efficiency and customer service with the TC75 Series in:

#### T&L

- Proof of delivery
- Asset management
- Asset tracking
- Scheduling
- Routing
- Location services

#### Field Service

- Asset management
- Parts inventory
- Invoicing
- Task management
- Location based services
- Technical assistance
- Appointment scheduling
- Service automation

#### Direct Store Distribution (DSD)/Route Accounting

- Order automation
- Delivery tracking
- Inventory management
- Store setup
- Customer support

#### Government and Public Safety



- Alternate to two-way radio
- Data collection
- Records query
- Real time data and voice
- ID validation/ ticketing
- Location services
- Resource deployment
- Document on the scene video and photos



**SPECIFICATION SHEET**

ZEBRA TC75 SERIES TOUCH COMPUTER

# TC75 Series Specifications

PHYSICAL CHARACTERISTICS	
<b>Dimensions</b>	6.3 in. L x 3.3 in. W x 1.1 in. D/ 161 mm L x 84 mm W x 28 mm DD
<b>Weight</b>	13.3 oz./376 g
<b>Display</b>	4.7 in. High Definition (1280 x 720); exceptionally bright, outdoor viewable; optically bonded to touch panel
<b>Imager Window</b>	Corning Gorilla Glass
<b>Touchpanel</b>	Dual mode capacitive touch with stylus or bare or gloved fingertip input (conductive stylus sold separately); Corning Gorilla Glass
<b>Backlight</b>	LED backlight
<b>Power</b>	 PowerPrecision/ PowerPrecision+: Improved battery technology for longer cycle times and real-time visibility into battery metrics for better battery management Li-Ion 3.7 V, 4620 mAh typical; battery swap function
<b>Expansion Slot</b>	TC75: User accessible MicroSD up to 32GB SDHC and up to 64 GB SDXC TC75x: User accessible MicroSD up to 32GB SDHC and up to 128 GB SDXC
<b>SIM</b>	TC75: 2 Nano SIM slot (4FF); 1 Mini SIM/SAM slot (2FF) TC75x: 2 Nano SIM slot (4FF); 1 Mini SIM (2FF)
<b>Network Connections</b>	USB 2.0 High Speed (host and client); WLAN
<b>Notification</b>	Audible tone; multi-color LEDs; vibration
<b>Keypad</b>	On-screen keypad; Enterprise Keyboard
<b>Voice and Audio</b>	Three microphone support with noise cancellation; vibrate alert; speaker; Bluetooth wireless headset support, High quality speaker phone; PTT headset support; Cellular circuit switch voice; HD Voice
PERFORMANCE CHARACTERISTICS	
<b>CPU</b>	TC75: 1.7 GHz dual core processor TC75x: 1.8 GHz hex core 64 bit processor
<b>Operating System</b>	 TC75: Android 5.1 Lollipop with Zebra's Mobility Extensions (Mx) TC75x: Android 6.0 Marshmallow with Mx
<b>Memory</b>	TC75: 1 GB RAM / 8 GB Flash pSLC TC75x: 2 GB RAM / 16 GB Flash pSLC or 4 GB RAM / 32 GB Flash pSLC
USER ENVIRONMENT	
<b>Operating Temp.</b>	-4° F to 122° F/-20° C to 50° C
<b>Storage Temp.</b>	-40° F to 158° F/-40° C to 70° C
<b>Humidity</b>	5% to 85% non-condensing
<b>Drop Specification</b>	Multiple 8 ft./2.4 m drop to concrete at room temperature per MIL-STD 810G, Multiple 6 ft./1.8 m drop to concrete across full operating temperature range
<b>Tumble Specification</b>	2,000 3.2 ft./1.0 m tumbles; meets and exceeds IEC tumble specifications

USER ENVIRONMENT (CONTINUED)	
<b>Sealing</b>	IP65 and IP67 per applicable IEC sealing specifications
<b>Vibration</b>	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
<b>Thermal Shock</b>	-40° F to 158° F/-40° C to 70° C rapid transition
<b>Electrostatic Discharge (ESD)</b>	+/-15kVdc air discharge +/-8kVdc direct discharge +/-8kVdc indirect discharge
INTERACTIVE SENSOR TECHNOLOGY (IST)	
<b>Light Sensor</b>	Automatically adjusts display backlight brightness
<b>Motion Sensor</b>	eCompass, 3-axis Gyro, 3-axis accelerometer
DATA CAPTURE	
<b>Scanning</b>	SE4750 imager (1D and 2D); extraordinary range: Scan range – Code 39 barcode: 20 Mil: 1.8 in. to 32.0 in./4.5 cm to 81.3 cm 3 Mil: 3.1 in. to 5.6 in./7.9 cm to 14.2 cm
<b>Camera</b>	Rear – 8 MP autofocus; f/2.4 aperture (TC75) Rear – 13MP autofocus (TC75x) Front – 1.3 MP fixed focus (TC75/TC75x)
<b>NFC</b>	ISO 14443 Type A and B; Felica, and ISO15693 cards. P2P mode and Card Emulation via UICC and Host
WIRELESS WAN DATA AND VOICE COMMUNICATIONS	
<b>Radio Frequency Band</b>	<p><b>TC75</b> <i>Worldwide:</i> LTE: 800/850/900/1800/2100/2600 (FDD 20,5,8,3,1,7); UMTS/HSPA/HSPA+: 850/900/1900/2100; GSM/GPRS/EDGE: 850/900/1800/1900</p> <p><i>Americas:</i> LTE: 700/850/1900/AWS/2100 (FDD 17,5,2,4,1); UMTS/HSPA/HSPA+: 850, 900, AWS, 1900, 2100; GSM/GPRS/EDGE: 850/900/1800/1900</p> <p><b>TC75x</b> <i>Worldwide:</i> LTE: 700,800/850/900/1800/2100/2600 (FDD 28,20,5,8,3,1,7); UMTS/HSPA/HSPA+: 850/900/1900/2100; GSM/GPRS/EDGE: 850/900/1800/1900</p> <p><i>Americas:</i> LTE: 700/850/1900/AWS/2100, (FDD 13,12,17,5,26,2,25,4,1); UMTS/HSPA/HSPA+: 850, 900, AWS, 1900, 2100 GSM/GPRS/EDGE: 850/900/1800/1900; CDMA: 850,1900 (BC0, BC10, BC1)</p>
<b>GPS</b>	TC75: Integrated, Autonomous, Assisted GPS (A-GPS), Navstar, GLONASS TC75x: Integrated, Autonomous, Assisted GPS (A-GPS), Navstar, GLONASS, Beidou

# TC75 Series Specifications (continued)

WIRELESS LAN	
<b>Radio</b>	TC75: IEEE® 802.11a/b/g/n/d/h/i/k/r TC75x: 2x2 MIMO; IEEE 802.11a/b/g/n/ac/d/h/i/r
<b>Data Rates</b>	<b>TC75</b> 5GHz: 802.11a/n — up to 150 Mbps; 2.4GHz: 802.11b/g/n — up to 72.2 Mbps <b>TC75x</b> 5GHz: 802.11a/n/ac — up to 866.7 Mbps; 2.4GHz: 802.11b/g/n — up to 144 Mbps
<b>Operating Channels</b>	<b>TC75</b> Chan 1 - 13 (2412 - 2472 MHz); Chan 36 - 165 (5180 - 5825 MHz) Channel Bandwidth: 20, 40 MHz <b>TC75x</b> Chan 1 - 13 (2412 - 2472 MHz), Chan 36 - 165 (5180 - 5825 MHz), Chan 138, Chan 142 Channel Bandwidth: 20, 40, 80 MHz Actual operating channels/ frequencies depend on regulatory rules and certification agency
<b>Security and Encryption</b>	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, EAP Fast² and LEAP TC75: Data in Motion: FIPS 140-2 Level 1 TC75: Data at Rest: FIPS 140-2 Level 1
<b>Features</b>	TC75: Wi-Fi Multimedia™ (WMM), Soft AP, Wi-Fi Direct, Miracast TC75x: Wi-Fi Multimedia (WMM), Soft AP, MIMO with 2 Spatial Streams, 256 QAM Modulation on 5G GHz radio; Maximum Ratio Combining (MRC), Tx/Rx Low-Density Parity Check (LDPC), Transmit Beamforming(TxBF) and Beamformee (BFee) capability, Full IEEE 802.11 a/b/g/n legacy compatibility
<b>Certifications</b>	TC75: WFA (802.11n, WMM-PS, Wi-Fi Direct, WPS, Miracast) TC75x: WFA (802.11n, 802.11ac, PMF, WMM-PS, WMM-AC and Voice Enterprise)
<b>Fast Roam</b>	PMKID caching, Cisco CCKM, 802.11r, OKC

1. PowerPrecision+ batteries are available only on TC75x models and provide advanced state of health and advanced state of charge metrics.
2. EAP Fast supported on TC75 models only.

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



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WIRELESS PAN	
<b>Bluetooth</b>	Class 2, Bluetooth v4.0 (Bluetooth® Smart technology) BT Wideband support HFPv1.6 Bluetooth v4.1 LE (TC75x only)

## COMMUNICATION AND MESSAGING

Workforce Connect PTT Express (included) provides instant push-to-talk (PTT) 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 TC75 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](http://www.zebra.com/mobilitydna)

- Enterprise Keyboard**
- Enterprise Home Screen**
- Stage Now**
- AppGallery**
- EMDK**
- Enterprise Browser**
- SimulScan**

Available Mobility DNA features may vary by model.

## WARRANTY

Subject to the terms of Zebra's hardware warranty statement, the TC75 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>

## RECOMMENDED SERVICES

Zebra OneCare; Managed Device Service