

# TC20 Specifications

## PHYSICAL CHARACTERISTICS

<b>Dimensions</b>	<b>TC20 ALL-TOUCH:</b> 5.27 in. L x 2.82 in. W x .63 in. D 134 mm L x 73.1 mm W x 16 mm D
	<b>TC20 WITH KEYBOARD:</b> 6.45 in. L x 2.82 in W x .63 in. D 164 mm L x 73.1 mm W x 16 mm D
<b>Weight</b>	<b>TC20 ALL-TOUCH:</b> 6.88 oz./195 g <b>TC20 WITH KEYBOARD:</b> 7.58 oz./215 g
<b>Display</b>	4.3 in. color WVGA (800x480); LED backlight; Corning Gorilla Glass
<b>Imager Window</b>	Corning Gorilla Glass
<b>Touch Panel</b>	Capacitive Touch Panel; multi-touch
<b>Power</b>	Non-removable Rechargeable Li-Ion: standard capacity, 3000mAh Charge in under 4 hours (10hrs = 1 Shift) RTC backup
<b>Expansion Slot</b>	One 128GB micro SD slot
<b>Network Connections</b>	One USB OTG - host/client (Type C connector)
<b>Notifications</b>	Unsolicited packet data and programmable
<b>Keypad</b>	<b>TC20 All-Touch:</b> On-screen Keypad
	<b>TC20 Keyboard:</b> Numeric
<b>Voice</b>	PTT Pro, PTT Express
<b>Audio</b>	Speaker - 1 Watt (94dBA)
	Voice support (Internal speaker/microphone)
	2 microphones Audio jack
<b>Buttons</b>	Scan on each side, Volume Up/Down, Power, push-to-talk (PTT) Key

## PERFORMANCE CHARACTERISTICS

<b>CPU</b>	QCOM MSM8937® 64-bit 8-Core, ARM® Cortex A53 1.4GHz, 512KB L2 cache, power-optimization
<b>Operating System</b>	Android Nougat 7.X
<b>Memory</b>	2GB RAM/16 GB Flash memory
<b>Security</b>	Verified Boot

## USER ENVIRONMENT

<b>Operating Temperature</b>	14° F to 122° F / -10° C to 50° C
<b>Storage Temperature</b>	-40° F to 158° F / -40° C to 70° C
<b>Drop Specifications</b>	Multiple 4 ft./1.2 m drop to tile over concrete per MIL-STD at room temperature
<b>Tumble Specifications</b>	300 tumbles, 1.6 ft./0.5 m
<b>Sealing</b>	IP54

## USER ENVIRONMENT (CONTINUED)

<b>Vibration</b>	4G peak, 5 Hz to 2 kHz, 1 hour duration per axis
<b>Thermal Shock</b>	-40°C to 70°C rapid transition 10 cycles (1 cycle = 1.25 hours at -40°C and 1.25 hours at 70°C)
<b>Electrostatic Discharge (ESD)</b>	+/-15kv Air, +/-8kv contact, +/-8kv charge body

## INTERACTIVE SENSOR TECHNOLOGY (IST)

Accelerometer (3-axis), ambient light sensor, proximity sensor

## DATA CAPTURE

<b>Scanning</b>	SE2100 1D/2D imager SE4710 1D/2D imager + rear camera
<b>Rear Camera</b>	8MP autofocus color camera with flash
<b>RFID</b>	RFD2000 UHF RFID snap-on sled

## WIRELESS LAN

<b>WLAN Radio</b>	802.11 a/b/g/n/ac/d/r/h/i IPv4, IPv6
<b>Data Rates</b>	2.4 GHz: 20 MHz, 40 MHz 5 GHz: 20 MHz, 40 MHz, 80 MHz
	2.4 GHz (channels 1-13; 1-11(US)) 5GHz (channels 36-48, 52-64, 100-144, 149-165)
<b>Operating Channels</b>	Actual operating channels/ frequencies and bandwidths depend on regulatory rules and certification agency.

<b>Security and Encryption</b>	WPA/WPA2 (PSK & Enterprise 802.1x); EAP-TLS; PEAPv0-MSCHAPv2; EAP-TLS
<b>Certifications</b>	802.11a/b/g/n; WPA; WPA2
<b>Fast Roam</b>	802.11r

## WIRELESS PAN

<b>Bluetooth</b>	Bluetooth 4.2 BLE
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## MOBILITY DNA SOLUTIONS

 <b>DataWedge</b>	 <b>Lifeguard™ for Android™</b>
 <b>EMM Tool Kit</b>	 <b>Mobility Extensions (Mx)</b>
 <b>Enterprise Home Screen</b>	 <b>StageNow</b>
 <b>Smart Dex</b>	

Mobility DNA is available on Android only. Features may vary by model and a Support Contract may be required. To learn what solutions are supported, please visit: <https://developer.zebra.com/mobilitydna>

## WARRANTY

Subject to the terms of Zebra's hardware warranty statement, the TC20 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](http://www.zebra.com/warranty)

## RECOMMENDED SERVICES

Zebra OneCare™ SV

## Put the TC20 to work in:

### Retail

- Front of store
- Back of store
- Stocking
- Receiving
- Shipping/Truck loading
- BOPIS (buy online, pick up in store)

### Hospitality

- Order taking

### Light warehouse

- Stocking
- Receiving
- Shipping/Truck loading

\* Just set up the pre-installed, free Workforce Connect PTT Express software to enable calls between workers carrying the TC20 and any Zebra PTT Express-enabled compatible Android or Windows mobile device.