

TC72/TC77 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
Touchpanel	Dual mode capacitive touch with stylus, finger or gloved fingertip input (conductive stylus sold separately); Screen Protector and Rain modes; Corning Gorilla Glass
Backlight	LED backlight
Power	Li-Ion 3.7 V, 4620 mAh. PowerPrecision/PowerPrecision+: Improved battery technology for longer cycle times and real-time visibility into battery metrics for better battery management
Expansion Slot	User accessible MicroSD with 32 GB SDHC and up to 256 GB SDXC
SIM	TC77 only: Dual SIM Dual Standby; 1 eSIM provisioned, 1 nano SIM
Network Connections	TC72: WLAN, WPAN (Bluetooth) TC77: WWAN (cellular, WLAN (WiFi), WPAN (Bluetooth)); USB 2.0 High Speed (host and client)
Notification	Audible tone; multi-color LEDs; vibration
Keypad	On-screen keypad and Enterprise Keyboard
Voice and Audio	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	
CPU	Qualcomm Snapdragon™ 660 octa-core, 2.2 GHz
Operating System	Android 8.1 Oreo
Memory	4 GB RAM/32 GB Flash pSLC
Internet Protocol	IPv4 and IPv6
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 90% non-condensing
Drop Specifications	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 PK Sine (5 Hz to 2 kHz); 0.04 g 2/Hz Random (20 Hz to 2 kHz); 60 minute duration per axis, 3 axis
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	eCompass, 3-axis Gyro, 3-axis accelerometer
Atmospheric Pressure Sensor	Yes, TC77 only
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 15.9 cm Digimarc Symbology support
Camera	Front – 5MP fixed focus Rear – 13 MP autofocus; f/2.4 aperture; flash LED generates balanced white light; supports Torch mode; 4K video with image stabilization Camera supports barcode scanning
NFC	ISO 14443 Type A and B; F; FeliCa and ISO 15693 cards; P2P mode and Card Emulation via Host SAM support for Calypso, Felica and Mifare technology TC77 only: Dual SAM support on TC77 SAM SKU
WIRELESS WAN DATA AND VOICE COMMUNICATIONS	
TC77 Only: Radio Frequency Band	Supports VoLTE, Carrier Aggregation up to 3DL CA AT&T FirstNet Ready certification Verizon PNTM certification LTE FDD: 700/800/850/900/1800/1900/ AWS/2100/2600 (28,13,14,12,17/19,20/5,26/8/3/2, 25/4,66/1/7); LTE TDD: 1900/2300/2500 (39/40/41,38); UMTS/HSPA/HSPA+: 850/900/AWS/1900/2100 (5/8/4/2/1); GSM/GPRS/EDGE: 850/900/1800/1900
GPS	TC77 only: Autonomous, Assisted GPS (A-GPS); Navstar; GLONASS; Galileo; BeiDou
WIRELESS LAN	
Radio	IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w; Wi-Fi™ certified; IPv4, IPv6, 2x2 MU-MIMO
Data Rates	5GHz: 802.11a/n/ac – up to 866.7 Mbps 2.4GHz: 802.11b/g/n – up to 300 Mbps
Operating Channels	Channel 1-13 (2412-2472 MHz); Channel 36-165 (5180-5825 MHz) Channel Bandwidth: 20, 40, 80 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); WPA/WPA2 Enterprise (TKIP and AES) – EAP-TTLS (PAP, MSCHAP, MSCHAPv2), EAP-TLS, PEAPv0-MSCHAPv2, PEAPv1-EAP-GTC and LEAP/EAP-PWD

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TC72/TC77 Series vertical markets and applications:

RETAIL

- Price audits/changes
- Store receiving
- Inventory management
- Voice communications
- Line busting
- Asset management
- Click & collect

MANUFACTURING

- Order/returns processing
- Proof of delivery
- Route optimization
- Inventory management
- Planogram compliance
- Technical documentation access (schematics/training guides)
- Customer service
- Work order management
- Voice communications

TRANSPORTATION & LOGISTICS

- Last mile delivery
- Package/pallet track and trace
- Proof of delivery/ pickup (signature/ photo)
- Route optimization
- Fleet management
- Payment collection
- Electronic driver logging
- In-cab telematics monitoring
- Voice communications

WAREHOUSE

- Picking/put-away
- Warehouse management
- Returns processing
- EDI transactions
- Voice communications

GOVERNMENT AND PUBLIC SAFETY

- eCitation
- Situational awareness
- Communication and collaboration
- Asset management