

TC52x/TC57x Series Specifications

Physical Characteristics	
Dimensions	6.1 in. L x 2.9 in. W x 0.73 in. H 155 mm L x 75.5 mm W x 18.6 mm H
Weight	8.8 oz./249 g with battery
Display	5.0 in. Full High Definition (1920 x 1080); exceptionally bright, outdoor viewable; optically bonded to touch panel
Imager Window	Corning Gorilla Glass
Touchpanel	Dual mode capacitive touch with stylus or bare or gloved fingertip input (conductive stylus sold separately); Corning Gorilla Glass; water droplet rejection; fingerprint resistant anti-smudge coating
Backlight	LED backlight
Power	Rechargeable Li-Ion, PowerPrecision+, ≥ 15.48 Watt hours, ≥ 4150 mAh, improved battery metrics for better battery management, fast charging (up to 2.4 A); Warm Swap battery mode up to two minutes (120 seconds)
Expansion Slot	User accessible MicroSD supports up to 256 GB SDXC
SIM Slots	TC57x only: 1 nano SIM; 1 eSIM
Network Connections	TC52x/TC57x: WLAN, WPAN (Bluetooth), USB 2.0, High Speed (Host and Client) TC57x only: WWAN
Notification	Audible tone; multi-color LEDs; vibration
Keypad	On-screen keypad and enterprise keyboard
Voice and Audio	Three microphones with noise cancellation; vibrate alert; front facing speaker; Bluetooth wireless headset support; high quality speaker phone; PTT headset support; cellular circuit switch voice; HD voice; Super-wideband (SWB) and Fullband (FB) audio; 3.5mm audio jack
Buttons	Four programmable buttons for maximum flexibility: dual dedicated scan buttons, dedicated push-to-talk button and volume up/down buttons
Performance Characteristics	
CPU	Qualcomm Snapdragon™ 660 octa-core, 2.45 GHz
Operating System	Android 10, upgradeable through Android 11
Memory	4GB RAM/32GB UFS Flash
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 95% non-condensing
Drop Specifications	Multiple 6 ft. drops to concrete with the rugged boot accessory per Mil STD 810 G; multiple 4 ft/1.2m drops to tile over concrete -10°C to 50°C (14°F to 122°F)
Tumble Specification	500 1.6 ft./0.5 m tumbles, meets or exceeds IEC tumble specification
Sealing	IP68 and IP65 with battery per applicable IEC sealing specifications

User Environment (Continued)	
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)	+/- 15 kV air discharge; +/- 8 kV direct discharge; +/- 8 kV indirect discharge
Interactive Sensor Technology (IST)	
Light Sensor	Automatically adjusts display backlight brightness
Magnetometer	eCompass automatically detects direction and orientation
Motion Sensor	3-axis Accelerometer with MEMS Gyro
Pressure Sensor	Automatically detects altitude information for locating (TC57x only)
Proximity Sensor	Automatically detects when the user places the handset against head during a phone call to disable display output and touch input
Data Capture	
Scanning	SE4720 1D/2D Imager
Camera	Front — 5 MP Rear — 13 MP autofocus; flash LED generates balanced white light; supports Torch mode
NFC	ISO 14443 Type A and B; FeliCa and ISO 15693 cards; P2P mode and Card Emulation via Host. Card Emulation via Host and UICC
Wireless WAN, Data and Voice Communications (TC57x 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	TC57x only: Autonomous, Concurrent GPS; GLONASS; Galileo; BeiDou, and A-GPS. Supports IZAT™ XTRA
Multimedia	Wi-Fi Multimedia™ (WMM) and WMM-PS; Including TSPEC
Wireless LAN	
Radio	IEEE 802.11 a/b/g/n/ac/d/h/i/r/k/v/w; Wi-Fi™ certified; IPv4, IPv6, 5GHz 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): 1,2,3,4,5,6,7,8,9,10,11,12,13 Channel 36-165 (5180-5825 MHz): 36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140,144,149,153,157,161,165 Channel Bandwidth: 20, 40, 80 MHz Actual operating channels/ frequencies and bandwidths depend on regulatory rules and certification agency.

TC52x/TC57x Series vertical markets and applications:

Retail Associates

- Price/inventory checks
- Loyalty apps
- Item locator
- Price management
- Line busting/POS
- Assisted selling
- Electronic coupons
- Store transfers
- Gift registry lookup

Retail Managers

- Workforce management
- Planogram management
- Promotion compliance
- Merchandising

Direct Store Delivery Drivers

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

Field Service Technicians

- Asset management
- Parts inventory
- Invoicing
- Scheduling and location-based services

Parcel/Light Courier Drivers

- Proof of delivery
- Asset management
- Location services
- Invoicing

Government/Public Safety

- eCitation
- Public transportation ticketing
- Situational awareness
- Communication and collaboration
- Asset management

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