Trimble TDC150

HANDHELD

KEY FEATURES

► Integrated high-accuracy GNSS receiver
► Scalable positioning accuracy from meter to centimeters
► Versatile GNSS corrections support
► Android™ 6.0 operating system
► 5.3-inch sunlight readable multi-touch capacitive screen
► Google Mobile™ services certified to run Google core applications and services
► Compatible with Trimble or third-party software applications
► High speed 4G LTE cellular data connectivity
► Ultra-rugged design with MIL-STD-810 certification and rated IP67
► Removable, all day battery
► Fast Qualcomm® processor with 2 GB RAM and 16 GB internal storage
► Ergonomic form factor
► Front- and rear-facing cameras

Learn more: geospatial.trimble.com/tdc150
GNSS CHARACTERISTICS
- 240 GNSS channels
- GPS L1C/A, L1P(Y), L2P(Y), L2C
- GLONASS L1C/A, L1C/L2C
- Beidou B1 (phase 2), B2
- Galileo E1, E5a
- QZSS L1C/A, L2C, L1SAIF
- SBAS L1C/A
- L-band
- Scalable accuracy from meter to centimeter (meter, sub meter (30/30), decimeter)
- RTK initialization range: over 40 km
- Clock frequency: 1.2 GHz
- Quad-core
- Supported data formats: RTX, ATOM, CMR, CMR+, RTCM 2.1, 2.3, 3.0, 3.1 and 3.2 (including MSM), CMRx and sCMRx

REAL-TIME ACCURACY (RMS): 2
SBAS (WAAS/EGNOS/MSAS/AGN/GAN)
- Horizontal: ≤ 10 cm
- Vertical: ≤ 25 cm
- Real-Time DGPS position
- Horizontal: ≤ 25 cm
- Vertical: ≤ 50 cm
- Real-Time Kinematic Position (RTK): 3
- Horizontal: ≤ 10 mm
- Vertical: ≤ 15 mm
- Real-Time Performance
- Instant-RTK: Typically 2 sec for baselines ≤ 20 km

RTK initialization range: over 40 km
Trimble RTX Positioning: 4, 5
FieldPoint RTX: ≤ 10 cm horizontal
RTX convergence time: (Trimble RTX Fast regions): < 1 min

POST-PROCESSED ACCURACY (RMS)
Horizontal (baselines up to 10 km): ≤ 1 cm
Vertical (baselines up to 10 km): ≤ 1 cm
Horizontal (baselines up to 50 km): ≤ 2 cm
Vertical (baselines over 50 km): ≤ 2 cm

DATA LOGGING CHARACTERISTICS
Recording interval: 1 to 999 seconds

PROCESSOR
- Qualcomm Snapdragon™ 410
- Quad-core
- Clock frequency: 1.2 GHz

OPERATING SYSTEM
- Android 6.0 (Google certified)
- Languages available: Afrikaans, German, English, Spanish, French, Italian, Portuguese (Portugal and Brazil), Japanese, Korean, Simplified Chinese, Greek, Russian, Azerbaijani, Czech, Danish, Lithuanian, Hungarian, Dutch, Norwegian (Bokmål), Romanian, Finnish, Swedish, Turkish, Bulgarian, Serbian (Cyrillic), Hindi, Polish
- Software platform includes: Google Mobile Services

MEMORY
- 2 GB SDRAM
- Storage: 16 GB (non-volatile)
- MicroSDHC™ memory card (up to 64 GB, SanDisk®, Kingston® recommended)

INTERFACE
- USB 2.0 (micro)
- External antenna connector (TNC)
- Audio jack 2.5 plug (CTIA/AHJ standards)

COMMUNICATIONS
- Cellular: GSM (850,900,1800,1900), GPRS, EDGE, UMTS, WCDMA (B1, B2, B5, B8), HSPA, TDSCDMA (B34, B39), LTE-FDD (B1, B3, B4, B5, B7, B8, B20), LTE-TDD (B38/B39/B40/B41)
- Wi-Fi (IEEE) 802.11b/g/n
- Bluetooth® 4.0 dual mode
- USB (micro B USB connector)
- NFC

ENVIRONMENTAL CHARACTERISTICS
- Operating temperature: -20 °C to +60 °C (–4 °F to 140 °F)
- Storage temperature: -30 °C to +70 °C without battery; -22 °F to 158 °F
- Humidity: 95% non condensing
- Water & dust proof: IP67
- Free drop: 1.2 m on concrete
- MIL-STD-810 (fig 514.5C-17) (01/2000)

POWER CHARACTERISTICS
- Battery: Li-Ion, 6400mAh
- Battery life: > 8 hrs @ 20 °C with GNSS on
- Charging time: 4 hours (removable battery)

PHYSICAL CHARACTERISTICS
- Size: 29.5 x 12 x 4.5 cm (11.6 x 4.7 x 1.8 in)
- Weight: 850 g (1.87 lb)
- User interface: 2 volume keys, on/off/reset key, 2 programmable keys, standard Android touch panel buttons

MULTIMEDIA & SENSORS
- Rear camera 13 MP pixels with flash light
- Front camera 2 MP pixels
- E-Compass
- G-sensor
- Bluetooth® 4.0 dual mode
- Front camera: 5.3” capacitive multi touch
- Resolution: 1280x720 pixels
- Brightness: 450 Cd/m2
- Gorilla Glass damage-resistant
- Auto rotate: between Portrait and Landscape

STANDARD ACCESSORIES
- Handstrap
- Screen protectors (x2)
- A/C charger
- USB cable

OPTIONAL ACCESSORIES
- External GNSS antenna
- Pole bracket
- Monopole

OPERATING MODES
- RTK rover: Direct IP, NTRIP (VRS, FKP, MAC networks)
- Post-processing (if supported by the field application)
- Trimble FieldPoint RTX support (IP and L-band)

FIELD SOFTWARE
- Trimble TerraFlex
- Trimble Pennmap® for Android
- Third-party Android applications

Contact your local Trimble Authorized Distribution Partner for more information

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