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, L2C/A
  - BeiDou B1 (phase 2), B2
  - Galileo E1, E5b
  - QZSS L1/C, L2A, LISAIF
  - SBAS L1C/A
- L-band
- Scalable accuracy from meter to centimeter (meter, sub meter (30/30), decimeter (7/2), centimeter)
- Patented Z-Blade technology for optimal GNSS performance
  - Full utilization of signals from all 6 GNSS systems (GPS, GLONASS, BeiDou, Galileo, QZSS and SBAS)
  - Enhanced GNSS-centric algorithm: fully-independent GNSS signal tracking and optimal data processing, including GPS-only, GLONASS-only or BeiDou-only solutions (autonomous to full RTK)
- Fast Search engine for quick acquisition and re-acquisition of GNSS signals
- Patented SBAS ranging for using SBAS code & carrier observations and orbits in RTX Processing
- Patented StreamCorrelator for reduced GNSS multi-path
- Supported data formats: RTX, ATOM, CMR, CMR+, RTCM 2.1, 2.3, 3.0, 3.1 and 3.2

REAL-TIME ACCURACY (RMS)\(^1,2\)
- SBAS (WAAS/EGNOS/MSAS/GAGAN)
  - Height: \(<50\ \text{cm}|\text{< 85 cm}\)
  - Vertical: \(<25\ \text{cm}|\text{< 50 cm}\)
  - Horizontal: \(<10\ \text{mm}|\text{< 15 mm}\)
- RTK position (Trimble RTX Fast regions)
  - Height: \(<2\ \text{cm}|\text{< 5 cm}\)
  - Vertical: \(<1\ \text{mm}|\text{< 1.5 mm}\)
  - Horizontal: \(<0.5\ \text{mm}|\text{< 1 mm}\)

POST-PROCESSED ACCURACY (RMS)
- SBAS (WAAS/EGNOS/MSAS/GAGAN)
  - Height: \(<25\ \text{cm}|\text{< 50 cm}\)
  - Vertical: \(<10\ \text{mm}|\text{< 15 mm}\)
  - Horizontal: \(<5\ \text{mm}|\text{< 10 mm}\)
- RTK (Trimble RTX positioning)
  - Height: \(<50\ \text{cm}|\text{< 100 cm}\)
  - Vertical: \(<20\ \text{mm}|\text{< 25 mm}\)
  - Horizontal: \(<10\ \text{mm}|\text{< 15 mm}\)
- FieldPoint® RTX
  - Height: \(<25\ \text{cm}|\text{< 50 cm}\)
  - Vertical: \(<10\ \text{mm}|\text{< 15 mm}\)
  - Horizontal: \(<5\ \text{mm}|\text{< 10 mm}\)

MULTIMEDIA & SENSORS
- Rear camera 13 MP pixels with flash light
- Front camera 2 MP pixels
- E-Compass
- G-sensor
- Handstrap
- Screen protectors (x2)
- A/C charger
- USB cable
- Bluetooth® 4.0 dual mode
- Wi-Fi (IEEE) 802.11 b/g/n
- Cellular: GSM (850,900,1800,1900), GPS, 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)
- USB (micro B USB connector)
- NFC

COMMUNICATIONS
- Cellular: GSM (850,900,1800,1900), GPS, 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) 802.11 b/g/n
- Bluetooth® 4.0 dual mode
- USB (micro B USB connector)
- NFC

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

POWER CHARACTERISTICS
- Battery life: \(>8\ \text{hrs} \\@20^\circ\text{C} \text{ with GNSS on} \)
- Removable battery

PHYSICAL CHARACTERISTICS
- 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
- On screen keyboard display:
  - 5.3” capacitive multi touch
  - Up to 99.9% reliability
  - Up to 99.9% reliability

INTERFACES
- Audio jack 2.5 plug (CTIA/AHJ standards)
- External antenna connector (TNC)
- USB 2.0 (micro)
- MicroSDHC™ memory card (up to 64 GB, SanDisk®, Kingston® recommended)
- 2 GB SDRAM
- 16 GB (non volatile).

MEMORY
- 2 GB SDRAM
- Storage: 16 GB (non volatile).

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 package includes: Google Mobile Services

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

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

OPTIONAL ACCESSORIES
- External GNSS antenna
- Pole bracket
- Monopole

STANDARD ACCESSORIES
- Battery
- USB cable
- Batteries can be stored up to +70 °C.

FIELD SOFTWARE
- Trimble TerraFlex™
- Trimble Penmap® for Android
- Third-party Android applications

Contact your local Trimble Authorized Distribution Partner for more information.