

Trimble TDC 100

Carry Just One Device

Is it a smartphone or rugged GNSS handheld? Actually, it's both.

The Trimble® TDC100 handheld combines a smartphone* and Trimble GNSS data collection technology in one rugged device. It's uniquely designed for utility professionals and field crews working on job sites in a variety of applications.

Juggling multiple devices is no easy task, especially when they are not purpose-built for the task at hand. It only makes sense for mobile workers to use the right tool for the job and take one device to the field—for collecting data, managing work orders, sharing information, and making calls. It's the cost-effective choice too. This is the device you have been waiting for.

Smarter Data Collection and Sharing

Trimble's TDC100 handheld offers better GNSS capability than your standard smartphone. The built-in GNSS receiver provides spatial GIS data with up to 1-2 m positioning accuracy¹ in real-time, and supports GPS, GLONASS and Beidou constellations. Plus, it takes advantage of SBAS augmentation where available.

The Android-based TDC100 handheld's smartphone capability lets you run mobile apps to support your workflow and improve your work day overall. Run Trimble apps such as Trimble Unity™, plus any other third-party or custom-developed apps, to tackle your organization's unique workflows. Simply download apps from the Google Play Store, any time, even in the field.

The handheld's connectivity enables project teams to share data and updates in real time. Use Cloud-based data sharing via Trimble Unity™ or similar, or simply touch base with the team by phone. Efficient communication minimizes downtime and errors, and eliminates trips back to the office.

Not Just Any GIS Data—It's GNSS Data with Trimble Confidence

A smart investment in just one device, the TDC100 handheld opens the door to quality GNSS data collection technology from Trimble. Add rock-solid workflows via Trimble software and other mobile apps, and you can feel confident that the data collected is exactly what's needed for integration into your enterprise GIS. No compromises needed.

Now you can take a smartphone to the field without fear—of dirt, water, or damage from an accidental drop. The TDC100 handheld will keep you working, whatever the conditions.



KEY FEATURES



IP-67 Rating

An IP-67 environmental rating protects the device from dust and moisture ingress



Large & Bright Display

A large (5.3 in) display is easy to read even in bright sunlight and through polarized sunglasses



Replaceable Battery

User replaceable batteries in standard or enhanced capacity allow you to keep working, all day



Integrated Camera

An integrated camera takes vivid georeferenced photos to document assets or conditions and help share job info

Product Models	TDC100 (Wi-Fi)	TDC100 (4G)
Cellular voice & data	No	Yes
WLAN (Wi-Fi)	Yes	Yes
Integrated camera with flash	8 MP	13 MP
Memory storage	8 GB	16 GB
Battery capacity	3100mAh	4800mAh

STANDARD FEATURES SYSTEM

- Integrated 4G cellular data, text and voice capability (4G model)
- 13 MP (4G model) and 8 MP (Wi-Fi model) camera with geotagging and flash light
- High-sensitivity GNSS/SBAS receiver and antenna
- Bluetooth® v 4.0
- Wi-Fi IEEE 802.11 b/g/n
- Capacitive multi-touch 5.3 inch bright, sunlight-readable Gorilla Glass display
- Long-life user replaceable Li-Ion battery (standard or enhanced capacity)
- 1.2 GHz Qualcomm™ processor
- 2 GB SDRAM
- 16 GB (4G) and 8 GB (Wi-Fi model) flash memory²
- 1 MicroSDHC memory card slot
- Integrated speaker and microphone

OPERATING SYSTEM

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

COMMUNICATIONS³

- Cellular: GSM (850/900/1800/1900), GPRS, EDGE, UMTS, WCDMA (B1/B2/B5/B8), TD-SCDMA (B34/B39), LTE-FDD (B1/B3/B4/B5/B7/B8/B20), LTE-TDD (B38/B39/B40/B41) (Not available on Wi-Fi model)
- Wi-Fi IEEE 802.11 b/g/n
- Bluetooth 4.0
- USB (micro B USB connector)
- NFC (not supported in Wi-Fi model)

STANDARD ACCESSORIES

- Lanyard
- Screen protectors (x2)
- A/C charger
- USB cable

OPTIONAL ACCESSORIES

- External magnetic GPS antenna
- Pole bracket
- Replacement batteries and covers

SOFTWARE COMPATIBILITY

Trimble Unity™ and other Google certified mobile apps

WARRANTY

- 3 year warranty as standard

TECHNICAL SPECIFICATIONS

PHYSICAL

Size 164 mm x 82 mm x 14.6 mm (6.45 in x 3.22 in x 0.57 in)
 Weight 310 g (10.9 oz) with extended capacity battery
 (278 g (9.8 oz) for Wi-Fi model with standard capacity battery)
 Processor... Qualcomm Snapdragon 410, Quad-core, Clock frequency: 1.2 GHz
 Memory 2 GB SDRAM
 Storage¹: 16 GB (non-volatile), (8 GB for Wi-Fi model)
 User Interface Keyboard 2 volume keys, on/off/reset key,
 2 programmable keys, standard Android touch panel 3 buttons,
 On screen keyboard
 Battery Li-Ion removable battery
 Standard capacity 3100mAh (default in Wi-Fi model)
 Enhanced capacity 4800mAh (default in 4G model)
 Battery life > 15 hours @ 20° C with GPS on⁴
 Charging time 4 hours

ENVIRONMENTAL

Temperature Operating -20 °C to +60 °C (-4 °F to +140 °F)
 Storage -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

INPUT/OUTPUT

Expansion MicroSDHC™ memory card
 (up to 64 GB, SanDisk®, Kingston® recommended)
 Display Gorilla Glass damage-resistant, auto rotate
 Size: 5.3" capacitive multi-touch
 Resolution: 1280x720px
 Brightness: 450 Cd/m²
 Audio Built-in microphone and speaker
 Audio jack 2.5 plug (CTIA/AHJ standards)
 Pogo pin connector
 I/O USB 2.0 (micro), external antenna connector
 Digital camera
 Rear camera 13 MP with flash light (8 MP on Wi-Fi model)
 Front camera 2 MP
 Sensors E-Compass (not supported in Wi-Fi model)
 G-Sensor, light sensor

GNSS

Internal antenna: 72 channels GPS L1 C/A, GLONASS, GALILEO E1, Beidou, SBAS
 Integrated real-time SBAS (WAAS/EGNOS/MSAS/GAGAN/QZSS)
 Tri constellation system GPS/GAL, GPS/GLO/GAL or GPS/Beidou/GAL
 External antenna connector Yes
 Protocol Location Services
 NMEA output (optional)

ACCURACY SPECIFICATIONS (HORIZONTAL RMS)⁵

Real-time SBAS⁶ < 1.5 m typical

- 1- 2m Hz accuracy at 1 Sigma RMS
- The actual available capacity of the internal memory is less than the specified capacity because the operating system and default applications occupy part of the memory. The available capacity may change when you upgrade applications or the device.
- Bluetooth, wireless LAN and cellular type approvals are country specific. Trimble TDC100 handhelds have Bluetooth, wireless LAN and cellular approval in North America and EU. For other countries, please consult your local Reseller.
- With Enhanced Capacity Battery. Using wireless technology, such as Bluetooth or wireless LAN will consume additional battery power. Backlight setting at 70% brightness.
- Horizontal Root Mean Squared accuracy. Requires data to be collected using vertical mounting, minimum of 4 satellites, PDOP mask at 99, SNR mask at 12 dBHz, elevation mask at 5 degrees, and reasonable multipath conditions. Ionospheric conditions, multipath signals or obstruction of the sky by buildings or heavy tree canopy may degrade precision by interfering with signal reception.
- SBAS (Satellite Based Augmentation System). Includes WAAS (Wide Area Augmentation System) available in North America only, EGNOS (European Geostationary Navigation Overlay System) available in Europe only, and MSAS available in Japan only.

Specifications subject to change without notice.