



# Trimble TDC100

## SERIES

### 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 GIS professionals working on job sites in a variety of applications including environmental management, public works, and utilities.

#### Carry Just One Device

Juggling multiple devices is no easy task, especially when they are not purpose-built for the task at hand. It only makes sense for GIS professionals 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 accuracy in real-time, and supports GPS, GLONASS, GALILEO 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 TerraFlex™, 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's TerraFlex or similar, or simply touch base with the team by phone. Efficient communication minimizes downtime and errors, and eliminates trips back to the office.

#### Ultra-Reliable and Efficient in the Field

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:

- ▶ An IP-67 environmental rating protects the device from dust and moisture ingress
- ▶ A large (5.3 in) display is easy to read even in bright sunlight and through polarized sunglasses
- ▶ User replaceable batteries in standard or enhanced capacity allow you to keep working, all day
- ▶ An integrated camera takes vivid geo-referenced photos to document assets or conditions and help share job information with other team members

#### 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.

## Key Features

- ▶ Smartphone and GNSS data collector combined so you can work smarter with mobile apps right at your fingertips
- ▶ Ruggedized, with a daylight readable display and user replaceable battery so you can collect and share accurate GIS data, in any weather, all day long



# Trimble TDC100 SERIES

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 memory<sup>1</sup>
- 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

### COMMUNICATIONS<sup>2</sup>

- 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

Please refer to the Product Compatibility matrix. ([www.trimble.com/mappingGIS/productcompatibility](http://www.trimble.com/mappingGIS/productcompatibility))

## 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  
 Storage<sup>1</sup> ..... 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 on<sup>3</sup>  
 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)<sup>4</sup>

Real-time SBAS<sup>5</sup> ..... < 1.5 m typical

1 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.  
 2 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.  
 3 With Enhanced Capacity Battery. Using wireless technology, such as Bluetooth or wireless LAN will consume additional battery power. Backlight setting at 70% brightness.  
 4 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.  
 5 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.



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