Trimble
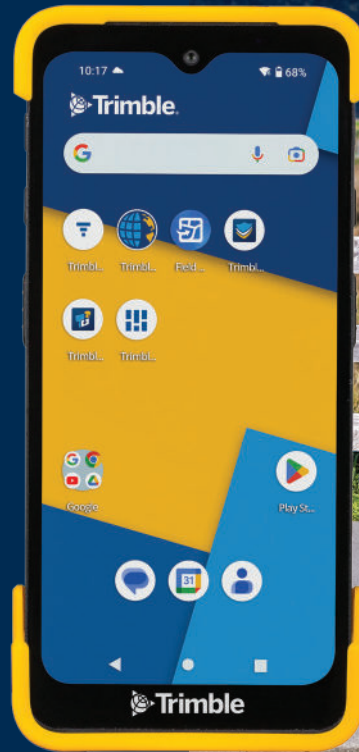# TDC6

DATA COLLECTOR

Advanced, rugged, ultra-lightweight data collection solution for productive surveying and GIS field workflows.

Effortless flexibility

Flexible

Facilitates multiple applications—as a standalone GIS data collector, paired with a high-accuracy GNSS receiver or as an onboard total station controller.

Choice of workflow using Trimble® TerraFlex® or Trimble Access™ field software, Trimble SiteVision™ augmented reality system or third-party applications.

Magnetic mount enables quick, simple swapping between applications.

Advanced

Incredibly lightweight (287 g) with slim form factor for easy handling.

Upgradeable and secure Android™ 12 operating system.

Reliable operation with Wi-Fi® 6E and worldwide 5G data capability.

Bluetooth® and NFC for effortless pairing to external devices.

9-hour hot-swappable battery supports continuous usage.

Rugged device with MIL-STD-810 specifications.

Cost effective

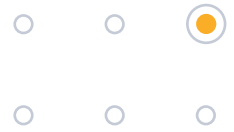High-performance and economical Trimble quality device to suit budget and workflow.

Multiple workflow and software options offer choice and value.

Find out more at:
geospatial.trimble.com/tdc6

Trimble TDC6
Data collector

SPECIFICATIONS

PHYSICAL

Size	172 mm (H) × 81.2 mm (W) × 24.3 mm (D) (with bumpers)
Weight	287 g (with standard battery and bumpers)

SYSTEM

Processor	2.7 GHz Qualcomm 6490	
Core	Octa-core 64 bit	
Clock frequency	8× Kryo 670 CPU from 1.9 up to 2.7 GHz	
Memory	6 GB RAM	
Data storage	64 GB Flash	
SD support, expansion capability	microSD slot with SDHC and support up to 256 GB	
Battery type	Hot-swappable Li-Ion battery	
Battery capacity	5100 mAH @ 3.8 V	
Backup battery	Backup battery keeps applications active up to 1 minute to support hot-swap functionality	
Battery life	5000 mAh, 9 hours of normal use with screen 100%	
	Battery self-discharge (typical)	<140µA@BAT>2.5 V, <26µA@BAT<2.5 V
	Battery storage	Suggested re-charge period is 3 months
Charging time	4 hours, USB PD charging	
I/O interface	Bottom: USB Type-C USB3.1 Gen 1 Type-C support USB OTG, DRP, DRD and DP (Display Port) function	

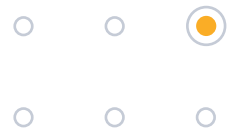### INPUT/OUTPUT

User interface keys	1. Volume up/down key, power button, programmable key 2. Three touch key on touch panel (back/home/recent) 3. Left and right trigger buttons	
Display/screen type/touch	Gorilla® 3 Glass, colour multi-touch user interface with capacitive, stylus (5 mm), glove, wet-finger compatibility	
Screen size	6.3" (20:9)	
Resolution	2160 × 1080 (FHD+)	
LCD brightness	Backlight minimum 450 nits (500 nits typical)	
Audio	Audio jack through USB-C Bluetooth audio	
Microphone	2 integrated microphones, supports noise cancelling	
Speaker	Integrated 1.5 Watt speaker	
Rear camera	16 MP with auto-focus and LED flash, Support Google® ARcore & Depth API	
Front camera	5 MP with fixed focus	
WWAN	Integrated 5G cellular data & SMS capability	
SIM	Nano-SIM × 2	
Cellular bands	5G	FR1 Sub 6 GHz:N1/N2/N3/N5/N28/N41/N71/N77/N78/N79 4*4 DL MIMO: N1/N2/N3/N41/N77/N78/N79
	4G	LTE Advanced Support, up to 100 Mbps CAT12 LTE downlink/uplink LTE (FDD) – Bands 1, 2, 3, 4, 5, 7, 8, 12, 17, 20, 28, 71 LTE (TDD) – Bands 38, 39, 40, 41
	3G	UMTS/HSPA+ – Bands 1, 2, 5, 8
	2G	GPRS/EDGE (850/900/1800/1900 MHz)
Wi-Fi	Wi-Fi 6E, 2.4 GHz & 5 GHz & 6 GHz IEEE 802.11a/b/g/n/ac/d/h/i/k/r/v/ac/ax (MIMO 2×2) Security WPA3, WPA2, WPA & WEP	
Bluetooth	Bluetooth 5.2, BLE5, Class 1	
NFC	ISO14443-4 (Type A, Type B), ISO15693, Mifare, Felica (ISO/IEC18092) Supports Read/Write & Card emulation modes	
Sensors	G-sensor (accelerometer), proximity + light sensor, e-compass, gyroscope	

⊕ Trimble

Trimble TDC6
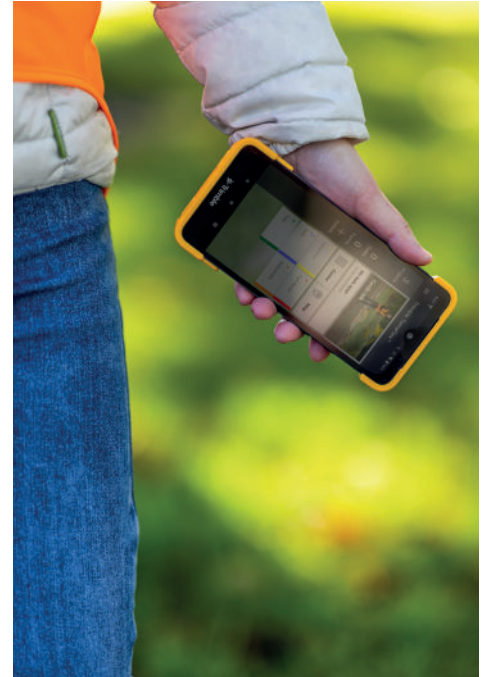## Data collector
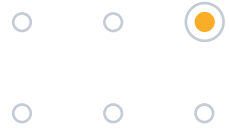
GNSS	
Satellites	GPS, GLONASS, Galileo, BeiDou, QZSS, SBAS
	L1 + L5
Internal GNSS receiver accuracy	2-4 meters
External antenna connector	No

OPERATING SYSTEM	
Operating system	Android 12 with Google Mobile Services and mid-life update to Android 14 Quarterly Android security updates - through the end of 2028 ARCore AER

SOFTWARE & HARDWARE COMPATIBILITY	
Supported software	Trimble TerraFlex, Trimble Access, Trimble Penmap® for Android, Esri® ArcGIS® Field Maps, Esri ArcGIS Survey123, Esri ArcGIS QuickCapture
Supported hardware	Current GNSS systems, Mechanical Total Station and Robotic Total Stations

STANDARD ACCESSORIES	
Included in the box	TDC6 handheld, battery pack, bumpers, screen protector, USB cable, QR code card linked to help portal

OPTIONAL ACCESSORIES	
Accessory parts	Battery pack, bumpers, screen protectors, USB cable, AC adapter, magnetic pole mount/bracket, non-magnetic pole mount/bracket

ENVIRONMENTAL		
Operating Temperature	-20 °C to +55 °C MIL-STD 810H, Method 501.7 & 502.7 Procedure II	
Storage Temperature	Without battery	-40 to +70 °C
	With battery	-20 to +45 °C (within 30 days) 0 to +30 °C (within 90 days) +15 to +25 °C (within 365 days)
	MIL-STD 810H, Method 501.7 & 502.7 Procedure I	
Battery storage	-20 °C to +45 °C 1 month -20 °C to +35 °C 3 months -20 °C to +25 °C 12 months	
Charging temperature	0 °C to +60 °C	
Water and dust	IP67 IEC 60529	
Drop	26 drops (each face, edge & corner) at room temperature from 1.22 m (4 ft) onto plywood 6 faces drops at -20 °C and +55 °C MIL-STD-810H, Method 516.8 Procedure IV	
Humidity	30 °C/60 °C, 95% RH MIL-STD 810H, Method 507.6 Procedure II	
Vibration	General Minimum Integrity and Loose Cargo MIL-STD 810H Method 514.8 Procedures I & II	
Altitude (low pressure)	Storage -30 °C, 40,000 ft Operational +5 °C, 30,000 ft MIL-STD 810H, Method 500.6 Procedures I & II	
Temperature shock	Cycles from -40 °C to +70 °C MIL-STD 810H, Method 503.7 Procedure I-C	
Solar radiation (sunshine)	3 and 56 days exposure MIL-STD 810H, Method 505.7 Procedure I and II	
Other	ESD 8KV / 15KV	

MANUFACTURE LOCATION	
	Made in Taiwan, TAA/GSA compliant

Trimble TDC6
Data collector

Android 🤖   Bluetooth®   C E

NORTH AMERICA
Trimble Inc.
10368 Westmoor Dr
Westminster CO 80021
USA

EUROPE
Trimble Germany GmbH
Am Prime Parc 11
65479 Raunheim
GERMANY

ASIA-PACIFIC
Trimble Navigation
Singapore PTE Limited
3 HarbourFront Place
#13-02 HarbourFront Tower Two
Singapore 099254
SINGAPORE

Trimble