Trimble TDC6

DATA COLLECTOR

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

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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.

7-hour hot-swappable battery supports continuous usage.

Rugged device with MIL-STD-810 specifications.

Cost effective

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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



SPEC SHEET

Trimble TDC6 Data collector



SPECIFICATIONS						
PHYSICAL						
Size	172 mm (H) × 81.2 mm (W) × 24	(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 su) 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 2. Three touch key on touch par 3. Left and right trigger buttons	nel (back/home/recent)				
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 (50	ight 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	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 & SM	//S capability				
SIM	Nano-SIM × 2					
Cellular bands		/N3/N5/N28/N41/N71/N77/N78/N79 /N3/N41/N77/N78/N79				
	LTE (FDD) – Bands 1, 2	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+ – Band	s 1, 2, 5, 8				
	2G GPRS/EDGE (850/900/1800/1900 MHz)					
Wi-Fi	Wi-Fi 6E, 2.4 GHz & 5 GHz & 6 G IEEE 802.11a/b/g/n/ac/d/h/i/k/r Security WPA3, WPA2, WPA & W	/v/ac/ax (MIMO 2×2)				
Bluetooth	Bluetooth 5.2, BLE5, Class 1					
NFC	ISO14443-4 (Type A, Type B), IS Supports Read/Write & Card er	O15693, Mifare, Felica (ISO/IEC18092) nulation modes				
Sensors G-sensor (accelerometer), proximity + light sensor, e-compass, gyroscope						



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GNSS						
Satellites	GPS, GLONASS, Galileo, BeiDou, QZSS, SBAS					
	L1 + L5					
Internal GNSS receiver accuracy	2-4 meters					
External antenna connector	No	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 CO	MPATIBILITY					
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, batt	ery 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, Meth	-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, Metho	od 501.7 & 502.7 Procedure I				
Battery storage	-20 °C to +35 °C 3 mo	-20 °C to +45 °C 1 month -20 °C to +35 °C 3 months -20 °C to +25 °C 12 months				
Charging temperature	ging temperature 0 °C to +60 °C					
Water and dust	IP67 / IP65 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, Meth	od 507.6 Procedure II				
Vibration		tegrity and Loose Cargo od 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 exposur MIL-STD 810H, Method		e I 505.7 Procedure I and II				
Other	ESD 8KV / 15KV					
MANUFACTURE LOCATION						
	Made in Taiwan, TAA	/GSA compliant				

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