Trimble TSC7
CONTROLLER

KEY FEATURES

- ► Optimized for Trimble® Access™ field software
- ► Large 7-inch multi-touch screen for finger or stylus
- ► Sunlight readable display
- ► Secure Windows® 10 Pro operating system
- ► Compatible with Microsoft® Office, web browsers, and other third-party apps
- ► Manages large project files, complex imagery, point clouds, and other 3D data
- ► Intel Pentium processor with 8 GB RAM and 64 GB internal memory
- ► Comprehensive connectivity options
- ► Front- and rear-facing cameras
- ► Backlit keypad with customizable button commands
- ► User-interchangeable EMPOWER modules, including a long-range radio
- ► Military-spec rugged design, engineering and performance
- ► Ergonomic form factor
- ► Hot-swappable batteries with LED indicators

Learn more:
geospatial.trimble.com/TSC7

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PHYSICAL SPECIFICATIONS

Size	20.9 x 30.2 x 7.0 cm (8.2 x 11.9 x 2.76"). Angled design.
Weight	1.42 kg (3.12 lb)
Housing	Glass-fibre reinforced resin with integrated drop bumpers

ENVIRONMENTAL SPECIFICATIONS
(MEETS OR EXCEEDS)

Operating temperature	-30°C to 60°C (-22°F to 140°F) MIL-STD-810G 501.5 Procedures II (operation)
Storage temperature	−40 °C to 70 °C (−40 °F to 158 °F) MIL-STD-810G 501.5 Procedures I (storage)
Sand & dust	IP6x: 8 hours of operation with blowing talcum powder (IEC60529)
Water	IPx8: Immersion, up to 1 m (3.2 ft) depth for 2 hours
Drop	26 drops at room temperature from 1.22 m (4 ft) onto plywood over concrete MIL-STD-810G, Method 516.6, Procedure IV
Humidity	90 % RH temp cycle +30°C/+60°C (86°F/140°F) MIL-STD-810G, Method 507.5, II
Vibration	Operating MIL-STD 810G 514.6 I & II, non-operating I, cat 24
Altitude	Operational at 4,572 m (15,000 ft), MIL-STD-810G, Method 500.5, (Altitude) I (storage) & II (operating)
Temperature Shock	Survives cycles between −30 ºC and 60 ºC (−22 ºF and 140 ºF), MIL-STD-810G, 503.5, I
Solar Exposure	Survives prolonged solar exposure, MIL-STD810G Method 505.5, II

SECURITY

TPM 2.0 (Trusted Platform Module)

CONFIGURATIONS

EMPOWER module support	2 x module bays

CERTIFICATIONS

Country certifications	FCC, NRTL, ICES, IC, ACMA, RSM, ANATEL, BIS, WPC, MCMC, CERT, CE, CB, TRA, NCC, ICASA, RCM, VCCI, KC, CCC, SRRC, FAC, EAC, BSMI approvals, NRTL scheme
Environmental	EU RoHS, China RoHS, REACH, WEEE

COMPATIBLE FIELD SOFTWARE

Trimble Access version 2017.2x and Trimble Access version 2018 and later

Windows 10 Pro 64 bit applications.

ELECTRICAL SPECIFICATIONS

Processor	Intel Apollo Lake - N4200, 64-bit quad-core
Memory	8 GB RAM, LPDDR4
Storage	64 GB eMMC
Expansion	via SDXC card up to 2 TB
Batteries	2 x 3100 mAh (22.53 Wh) min. capacity/3150 mAh (22.90 Wh) nominal capacity; removable, hot swappable, charge LED indicator
Battery life	Medium usage approx. 5 hours, can range 4–7 hours (depending on display settings, connectivity, data processing, ambient temperature, etc.)
Charging time	Full-charge 3.5 hours, fast-charge (80 %) 1 ¾ hours
Power input	19V/5A charging
Notification LED	Charging and power status
Display	7", 1280 x 800 landscape, 16:10, 800 nits sunlight readable. LED backlit, Gorilla® Glass 3.0, 10 point capacitive multitouch with stylus,touch, and glove mode
Keyboard	QWERTY or ABCD, with backlight, numeric key block, Fn keys (6 physical + 6 2nd function Fn keys)
Audio	Speaker and dual digital microphone array with noise reduction
External speaker/ microphone	3.5 mm mini-jack or wireless headset
I/O	User replaceable module. Standard: Charger/DC power-in, USB 3.1 Gen 1 type A host, serial RS232 DB-9
WWAN	Worldwide LTE in regions where it is available, and compatible with 3G networks AT&T and Verizon certified. MicroSIM card
Wi-Fi	802.11 a/b/g/ac/n (2.4 GHz/5 GHz ISM radio band)
Bluetooth®	BT 2.1 + EDR, BT 4.1
Camera	Rear camera 8 MP autofocus with flash Front camera 2 MP fixed-focus
GNSS	Integrated u-blox NEO-M8N, L1, GPS/GLONASS/BeiDou
Sensors	3-axis accelerometer, magnetic sensor, ambient light sensor, proximity sensor

Specifications subject to change without notice.

Windows 10   Network Compatible at&t   verizon✓   WiFi ALLIANCE MEMBER   Bluetooth®   FC   C E   c