



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 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 128 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 °C and +60 °C (-22 °F and +140 °F), 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
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COMPATIBLE FIELD SOFTWARE

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

Windows 10 64 bit applications

ELECTRICAL SPECIFICATIONS

Processor	Intel Apollo Lake - N4200, 64-bit quad-core
Memory	8 GB RAM, LPDDR4
Storage	128 GB eMMC
Expansion	via SDXC card up to 512 GB
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	8 hours typical (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
Notification LED	Charging and power status
Display	7", 1280 x 800 landscape, 16:10, 800 nits sunlight readable. LED backlight, Gorilla® Glass 3.0, 10 point capacitive multitouch with stylus, touch, and glove mode
Keyboard	QWERTY with backlight, numeric key block, Fn keys (6 physical + 6 second function 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/n/ac (2.4 GHz/5 GHz ISM radio band)
Bluetooth®	Bluetooth 5.1
Camera	Rear camera 8 MP autofocus with flash Front camera 2 MP fixed-focus
GNSS	Integrated Sierra Wireless EM74xx, Horizontal Accuracy 2–4 m (RMS), L1 GPS, GLONASS, BeiDou, Galileo
Sensors	3-axis accelerometer, magnetic sensor, ambient light sensor, proximity sensor

Specifications subject to change without notice.



FRONTIER PRECISION
G E O S P A T I A L
sales@frontierprecision.com
www.frontierprecision.com/solutions/geospatial

Contact your local Trimble Authorized Distribution Partner for more information.

AMERICAS
Trimble Inc.
4450 Gibson Drive
Tipp City, Ohio 45371
USA

EUROPE
Trimble Europe B.V.
Industrieweg 187A,
5683 CC, Best
NETHERLANDS

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

