



# 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](https://geospatial.trimble.com/TSC7)



# Trimble TSC7 CONTROLLER

## 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)<br>MIL-STD-810G 501.5 Procedures II (operation)                                      |
| Storage temperature   | -40 °C to 70 °C (-40 °F to 158 °F)<br>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)<br>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 |
|------------------------|-----------------|

## CERTIFICATIONS

|                        |   |
|------------------------|---|
| Country certifications | FCC, NRTL, ICES, IC, ACMA, RSM, ANATEL, BIS, WPC, MCMC, CERT, CE, CB, TRA, NCC, ICASA, RCM, VCCI, KC, CCC, SRR, 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 backlight, 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<br>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.



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