

# 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](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")<br>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 |
|------------------------|-----------------|

## 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 backlit, 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.<br>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<br>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.



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