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 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 503.5, 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, SRRFC, FAC, EAC, BSMI approvals, NRTL scheme

Environmental
EU RoHS, China RoHS, REACH, WEEE

COMPATIBLE FIELD SOFTWARE


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.

WWAN
Worldwide LTE in regions where it is available, and compatible with 3G networks

Bluetooth
BT 2.1 + EDR, BT 4.1

Wi-Fi
802.11 a/b/g/ac/n (2.4 GHz/5 GHz ISM radio band)

CAMERA

Rear camera 8 MP autofocus with flash

SENSOR

3-axis accelerometer, magnetic sensor, ambient light sensor, proximity sensor

Specifications subject to change without notice.