Trimble TSC7

CONTROLLER

KEY FEATURES

- Optimized for Trimble® Access™ 2018 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





Trimble TSC7 CONTROLLER

| PHYSICAL SPECIFICATIONS | |
|-------------------------|---|
| Size | 30 x 20.9 x 7.1 cm (11.8 x 8.2 x 2.8 ") |
| Weight | 1.42 kg (3.12 lb) |
| Housing | Glass-fibre reinforced resin with integrated drop bumpers |

| ENVIRONMENTAL SPECIFICATIONS (meets or exceeds) | | |
|---|---|--|
| Operating temperature | -20 °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) | |
| Humidity | 90 % RH temp cycle –20 °C/60 °C (–4 °F/140 °F) MIL-STD-810G, Method 507.5, Procedure II | |
| Sand & dust | IP6x: 8 hours of operation with blowing talcum powder (IEC-529) | |
| 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 | |

| SECURITY | |
|-------------------------------|--|
| TPM (Trusted Platform Module) | |
| | |

| CONFIGURATIONS | |
|------------------------------------|--|
| EMPOWER module support | 2 x module bays |
| Languages supported at first boot: | Chinese (Simplified), English (US), French, German, Italian, Japanese, Korean, Portuguese (Brazilian), Spanish (Castilian region and Mexico) |

| | CERTIFICATIONS |
|---------------|--|
| Among others | FCC, NRTL, ICES, IC, NRTL, CE, CB, RCM, CCC |
| Countries | Certified in countries: USA, Canada, EU, Australia/ New Zealand, South Africa, India, Malaysia, Tunisia, UAE, Thailand, Taiwan, Russia |
| Environmental | EU RoHS, China RoHS, REACH, WEEE |

Specifications subject to change without notice.

| Processor Intel Apollo Lake - N4200, 64-bit quad-core Memory 8 GB RAM, LPDDR4 Storage 64 GB eMMC Expansion via microSDXC card up to 2 TB 2 x 3100 mAh (22.53 Wh) min. capacity/3150 mAh (22.90 Wh) nominal capacity; removable, hot swappable, charge LED indicator 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 7-inch, 1280 x 800 landscape, 16:10, multi-point capacitive, 650+ nits sunlight readable 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 User replaceable module. Standard: Charger/DC power-in, USB 3.1 Gen 1 type A host, serial RS232 DB-9 USB USB 3.1 Gen 1 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, 2.4 GHz 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 GNSS Sensors | ELEC [*] | TRICAL SPECIFICATIONS |
|--|-------------------|---|
| Storage 64 GB eMMC Expansion via microSDXC card up to 2 TB 2 x 3100 mAh (22.53 Wh) min. capacity/3150 mAh (22.90 Wh) nominal capacity; removable, hot swappable, charge LED indicator 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-inch, 1280 x 800 landscape, 16:10, multi-point capacitive, 650+ nits sunlight readable 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 User replaceable module. Standard: Charger/DC power-in, USB 3.1 Gen 1 type A host, serial RS232 DB-9 USB USB 3.1 Gen 1 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, 2.4 GHz radio band Bluetooth® BT 2.1 + EDR, BT 4.1 Camera Rear camera 8 MP autofocus with flash Front camera 2 MP fixed-focus Integrated GNSS 3-axis accelerometer, magnetic sensor, | Processor | Intel Apollo Lake - N4200, 64-bit quad-core |
| Expansion via microSDXC card up to 2 TB 2 x 3100 mAh (22.53 Wh) min. capacity/3150 mAh (22.90 Wh) nominal capacity; removable, hot swappable, charge LED indicator 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 7-inch, 1280 x 800 landscape, 16:10, multi-point capacitive, 650+ nits sunlight readable 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 User replaceable module. Standard: Charger/DC power-in, USB 3.1 Gen1 type A host, serial RS232 DB-9 USB USB 3.1 Gen1 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, 2.4 GHz radio band Bluetooth® BT 2.1 + EDR, BT 4.1 Camera Rear camera 8 MP autofocus with flash Front camera 2 MP fixed-focus Integrated GNSS 3-axis accelerometer, magnetic sensor, | Memory | 8 GB RAM, LPDDR4 |
| Batteries 2 x 3100 mAh (22.53 Wh) min. capacity/3150 mAh (22.90 Wh) nominal capacity; removable, hot swappable, charge LED indicator 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 Tinch, 1280 x 800 landscape, 16:10, multi-point capacitive, 650+ nits sunlight readable Wegenty 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 I/O Standard: Charger/DC power-in, USB 3.1 Gen 1 type A host, serial RS232 DB-9 USB USB 3.1 Gen 1 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, 2.4 GHz radio band Bluetooth® BT 2.1 + EDR, BT 4.1 Camera Rear camera 8 MP autofocus with flash Front camera 2 MP fixed-focus Integrated GNSS Sensors 3-axis accelerometer, magnetic sensor, | Storage | 64 GB eMMC |
| Batteries (22.90 Wh) nominal capacity; removable, hot swappable, charge LED indicator 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 7-inch, 1280 x 800 landscape, 16:10, multi-point capacitive, 650+ nits sunlight readable QWERTY or ABCD, with backlight, numeric key block, Fn keys (6 physical + 6 2nd function Fn keys) Speaker and dual digital microphone array with noise reduction External speaker/microphone 1/O Standard: Charger/DC power-in, USB 3.1 Gen 1 type A host, serial RS232 DB-9 USB USB 3.1 Gen 1 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, 2.4 GHz radio band BT 2.1 + EDR, BT 4.1 Camera Rear camera 8 MP autofocus with flash Front camera 2 MP fixed-focus Integrated GNSS 3-axis accelerometer, magnetic sensor, | Expansion | via microSDXC card up to 2 TB |
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| Power input 19V/5A charging Notification LED Charging and power status 7-inch, 1280 x 800 landscape, 16:10, multi-point capacitive, 650+ nits sunlight readable 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 User replaceable module. Standard: Charger/DC power-in, USB 3.1 Gen 1 type A host, serial RS232 DB-9 USB USB 3.1 Gen 1 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, 2.4 GHz 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 GNSS Sensors 3-axis accelerometer, magnetic sensor, | Battery life | hours (depending on display settings, connectivity, |
| Notification LED Charging and power status 7-inch, 1280 x 800 landscape, 16:10, multi-point capacitive, 650+ nits sunlight readable 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 USB USB 3.1 Gen 1 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, 2.4 GHz 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 GNSS 3-axis accelerometer, magnetic sensor, | Charging time | Full-charge 3.5 hours, fast-charge (80 %) 1 ¾ hours |
| Display 7-inch, 1280 x 800 landscape, 16:10, multi-point capacitive, 650+ nits sunlight readable 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 User replaceable module. Standard: Charger/DC power-in, USB 3.1 Gen 1 type A host, serial RS232 DB-9 USB USB 3.1 Gen 1 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, 2.4 GHz 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 GNSS Sensors 3-axis accelerometer, magnetic sensor, | Power input | 19V/5A charging |
| Capacitive, 650+ nits sunlight readable Reyboard 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 User replaceable module. Standard: Charger/DC power-in, USB 3.1 Gen 1 type A host, serial RS232 DB-9 USB USB 3.1 Gen 1 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, 2.4 GHz 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 GNSS 3-axis accelerometer, magnetic sensor, | Notification LED | Charging and power status |
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| External speaker/ microphone 3.5 mm mini-jack or wireless headset User replaceable module. Standard: Charger/DC power-in, USB 3.1 Gen 1 type A host, serial RS232 DB-9 USB USB 3.1 Gen 1 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, 2.4 GHz 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 GNSS 3-axis accelerometer, magnetic sensor, | Keyboard | |
| WWAN User replaceable module. 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, 2.4 GHz radio band Bluetooth® BT 2.1 + EDR, BT 4.1 Camera Rear camera 8 MP autofocus with flash Front camera 2 MP fixed-focus Integrated GNSS Sensors 3-axis accelerometer, magnetic sensor, | Audio | |
| I/O Standard: Charger/DC power-in, USB 3.1 Gen 1 type A host, serial RS232 DB-9 USB USB 3.1 Gen 1 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, 2.4 GHz 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 GNSS 3-axis accelerometer, magnetic sensor, | • | 3.5 mm mini-jack or wireless headset |
| 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, 2.4 GHz 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 GNSS 3-axis accelerometer, magnetic sensor, | 1/0 | Standard: Charger/DC power-in, USB 3.1 |
| www. and compatible with 3G networks AT&T and Verizon certified. MicroSIM card Wi-Fi 802.11 a/b/g/n, 2.4 GHz 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 GNSS 3-axis accelerometer, magnetic sensor, | USB | USB 3.1 Gen 1 |
| Bluetooth® BT 2.1 + EDR, BT 4.1 Camera Rear camera 8 MP autofocus with flash Front camera 2 MP fixed-focus GNSS Integrated GNSS Sensors 3-axis accelerometer, magnetic sensor, | WWAN | and compatible with 3G networks |
| Camera Rear camera 8 MP autofocus with flash Front camera 2 MP fixed-focus GNSS Integrated GNSS Sensors 3-axis accelerometer, magnetic sensor, | Wi-Fi | 802.11 a/b/g/n, 2.4 GHz radio band |
| GNSS Integrated GNSS Sensors Gamera Front camera 2 MP fixed-focus Integrated GNSS 3-axis accelerometer, magnetic sensor, | Bluetooth® | BT 2.1 + EDR, BT 4.1 |
| Songers 3-axis accelerometer, magnetic sensor, | Camera | |
| | GNSS | Integrated GNSS |
| | Sensors | |

















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