

Trimble T7 tablet

USER GUIDE

Model: 121600
Version 1.0
Revision B
October 2022



Legal Notices

Corporate Office

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Global technical support

To request detailed technical assistance for Trimble solutions, contact trimble_support@trimble.com.

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Release Notice

This is the October 2022 release (Revision B) of the Trimble T7 tablet documentation, Geospatial Division.

Recycling information

You should dispose of the device and accessories properly according to local laws and regulations. Because the device contains electronic components, it must be disposed of separately from household waste. When the device reaches its end of life, contact your local Trimble dealer to learn about disposal and recycling options for your area.

Recycling in Europe



The symbol above means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product and/or its battery at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

For information about recycling Trimble WEEE (Waste Electrical and Electronic Equipment) products that run on electrical power go to trimble.com/en/our-commitment/responsible-business/product-compliance/environmental-compliance.

The ERFC Netherlands will recycle on behalf of Trimble Distributors, conforming to the European Union's WEEE Directive 2002/96/EC, any WEEE supplied to the market by Trimble Inc. their partners and/or subsidiaries.

Taiwan – Battery Recycling Requirements



The product contains a Lithium-ion battery. Taiwanese regulations require that waste batteries are recycled.

廢電池請回收

Frequency table

Components	Frequency (MHz)	Antenna type	Brand	Main	Aux.
WLAN	2400 to 2500	PIFA	AWAN	0.48 dBi	-2.35 dBi

Components	Frequency (MHz)	Antenna type	Brand	Main	Aux.
WLAN	5150 to 5350, 5470 to 5725, 5725 to 5850	PIFA	AWAN	3.03/2.21/1.66 dBi	-0.37/0.35/0.41 dBi
Bluetooth	2402 to 2480	PIFA	AWAN	-	-2.35 dBi
WWAN	698 to 960 Mhz, 1710 to 2690	PIFA	I-PEX	0.42/0.08 dBi	1.37/0.61 dBi

Regional compliance

Australia and New Zealand



This product conforms with the regulatory requirements of the Australian Communications and Media Authority (ACMA) Telecommunications, Radiocommunications and EMC Labelling Notices, thus satisfying the requirements for RCM marking and sale within Australia and New Zealand.

Europe



This Trimble product has been tested and found to comply with all requirements for CE Marking and sale within the European Economic Area (EEA). The device has Bluetooth and wireless LAN approval and satisfies the requirements for the RED 2014/53/EU. These requirements provide reasonable protection against harmful interference when the equipment is operated appropriately in a residential or commercial environment.

European declaration of conformity

Manufacturer's Name: Trimble Inc.

Manufacturer's Address: 935 Stewart Drive, Sunnyvale CA 94085, USA

Declares, under our sole responsibility, that the product:

Product Name: T7

Model Number: 121600

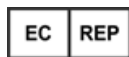
This product has been determined to be in compliance with RED 2014/53/EU, 2006/95/EC (Low Voltage Directive), 2004/108/EC (EMC Directive), and amendments of the European Union.

Importer of Record

Trimble European Regional Fulfillment Center
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 Industrieweg 187a
 5683 CC Best
 The Netherlands

Trimble EC

Trimble Germany
 Am Prime Parc 11
 65479 Raunheim
 Germany



CAUTION - Only approved accessories may be used with this equipment. In general, all cables must be high quality, shielded, correctly terminated and normally restricted to two meters in length. Power supplies approved for this product employ special provisions to avoid radio interference and should not be altered or substituted. Unapproved modifications or operations beyond or in conflict with these instructions for use may void authorization by the authorities to operate the equipment.

Canada

IC ID: 5817-121600

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe B prescrites dans le règlement sur le brouillage radioélectrique édicté par le Ministère des Communications du Canada.

Changes and modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Industry Canada rules.

Les changements et modifications non expressément approuvés par le fabricant ou le détenteur de cet équipement peuvent annuler votre droit à utiliser cet appareil en vertu des règles d'Industrie Canada.

Antenna Statement

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Licence exempt

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This Category II radio communication device complies with Industry Canada Standard RSS-310.

Ce dispositif de radiocommunication de catégorie II respecte la norme CNR-310 d'Industrie Canada.

IMPORTANT NOTE: IC Radiation Exposure Statement

This EUT is compliant with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528. This equipment should be installed and operated with minimum distance 0.5 cm between the radiator & your body. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter. The County Code Selection feature is disabled for products marketed in the US/Canada.

IC SAR warning

Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has been evaluated for and shown compliant with the IC Specific Absorption Rate ("SAR") limits when installed in specific host products operated in portable exposure conditions.

Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l'appareil de sans fil est inférieure à la limite d'exposition aux fréquences radio d'Industrie Canada (IC). Utilisez l'appareil de sans fil de façon à minimiser les contacts humains lors du fonctionnement normal.

Ce périphérique a été évalué et démontré conforme aux limites SAR (Specific Absorption Rate – Taux d'absorption spécifique) d'IC lorsqu'il est installé dans des produits hôtes particuliers qui fonctionnent dans des conditions d'exposition à des appareils portables.

The device could automatically discontinue transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology.

The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems; the maximum antenna gain permitted (for devices in the bands 5250-5350 MHz and 5470-5725 MHz) to comply with the e.i.r.p. limit; and The maximum antenna gain permitted (for devices in the band 5725-5850 MHz) to comply with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate, as stated in section A9.2(3). In addition, High-power radars are allocated as primary users (meaning they have priority) of the band 5250-5350 MHz and this radar could cause interference and/or damage to LAN devices.

Le dispositif pour la bande 5150-5250 MHz est uniquement destiné à une utilisation en intérieur afin de réduire les risques d'interférences nuisibles aux systèmes mobiles par satellite dans le même canal; le gain d'antenne maximal autorisé (pour les appareils dans les bandes 5250-5350 MHz et 5470-5725 MHz) pour se conformer à la p.i.r.e. limite; et Le gain d'antenne maximal autorisé (pour les appareils dans la bande 5725-5850 MHz) pour se conformer à la p.i.r.e. limites spécifiées pour le fonctionnement point à point et non point à point, selon le cas, comme indiqué dans la section A9.2 (3). De plus, les radars haute puissance sont attribués comme utilisateurs principaux (c'est-à-dire qu'ils ont la priorité) de la bande 5250-5350 MHz et ce radar pourrait causer des interférences et / ou endommager les dispositifs LE-LAN.

U.S.

FCC ID: S9E-121600

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes and modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commission rules.

The radios in this device have been designed and manufactured to not exceed stipulated emission limits for exposure to radio frequency (RF) energy as required by the Federal Communications Commission of the U.S. Government 47 C.F.R. § 2.1091 and 2.1093.

Operation on the 5.15-5.25GHz frequency band is restricted to indoor use only. The FCC requires indoor use for the 5.15-5.25GHz band to reduce the potential for harmful interference to co-channel Mobile Satellite Systems. Therefore, it will only transmit on the 5.25-5.35 GHz, 5.47-5.725 GHz and 5.725 –5.850 GHz band when associated with an access point (AP).

CE

a. Caution:

- Risk of explosion if battery replaced by an incorrect type.
 - Dispose of used batteries according to the instructions.
- b. Make sure the temperature for the adapter while charging is within 0-40 °C (32-104 °F).

Limited Warranty Terms and Conditions

Product Limited Warranty

Subject to the terms and conditions set forth herein, Trimble Inc. ("Trimble") warrants that for a period of two (2) years from date of purchase this Trimble product (the "Product") will substantially conform to Trimble's publicly available specifications for the Product and that the hardware and any storage media components of the Product will be substantially free from defects in materials and workmanship.

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Product software, whether built into hardware circuitry as firmware, provided as a standalone computer software product, embedded in flash memory, or stored on magnetic or other media, is licensed solely for use with or as an integral part of the Product and is not sold. The terms of the end user license agreement, as included below, govern the use of the Product Software, including any differing limited warranty terms, exclusions and limitations, which shall control over the terms and conditions set forth in the limited Product warranty.

Warranty Remedies

If the Trimble Product fails during the warranty period for reasons covered by this limited warranty and you notify Trimble of such failure during the warranty period, Trimble will repair OR replace the nonconforming Product with new, equivalent to new, or reconditioned parts or Product, OR refund the Product purchase price paid by you, at Trimble's option, upon your return of the Product in accordance with Trimble's product return procedures then in effect.

How to Obtain Warranty Service

To obtain warranty service for the Product, it is recommended you contact your Trimble dealer. Alternatively, you may contact Trimble to request warranty service by emailing Repair_Services@Trimble.com. Please be prepared to provide:

- your name, address, and telephone numbers;
- product name, part number and serial number;
- proof of purchase;
- an explanation of the problem.

The customer service representative may need additional information from you depending on the nature of the problem.

Warranty Exclusions and Disclaimer

This Product limited warranty shall only apply in the event and to the extent that (i) the Product is properly and correctly installed, configured, interfaced, maintained, stored, and operated in accordance with Trimble's applicable operator's manual and specifications,

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Notice to Australian Purchasers - The Australian Consumer Law

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Trimble's warranty, as set out in the user manual accompanying this statement, or as described in the warranty card accompanying the Product you purchased, is in addition to any mandatory rights and remedies that you may have under the Australian Consumer Law.

Official Language

THE OFFICIAL LANGUAGE OF THESE TERMS AND CONDITIONS IS ENGLISH. IN THE EVENT OF A CONFLICT BETWEEN ENGLISH AND OTHER LANGUAGE VERSIONS, THE ENGLISH LANGUAGE SHALL CONTROL

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For purposes of this warranty the following definitions shall apply: (1) "Fix(es)" means an error correction or other update created to fix a previous software version that does not substantially conform to its Trimble specifications; (2) "Minor Update" occurs when enhancements are made to current features in a software program; and (3) "Major Upgrade" occurs when significant new features are added to software, or when a new product containing new features replaces the further development of a current product line. Trimble reserves the right to determine, in its sole discretion, what constitutes a Fix, Minor Update, or Major Upgrade.

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2 TRIMBLE LIMITATION OF LIABILITY

2.1 LIMITATION OF LIABILITY. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL TRIMBLE OR ITS SUPPLIERS BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, CONSEQUENTIAL OR PUNITIVE DAMAGES HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION, OR ANY OTHER PECUNIARY LOSS) ARISING OUT OF THE USE OR INABILITY TO USE THE SOFTWARE, OR THE PROVISION OF OR FAILURE TO PROVIDE SUPPORT SERVICES, EVEN IF TRIMBLE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES AND NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY EXCLUSIVE REMEDY PROVIDED IN THIS EULA.

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3 GENERAL

3.1 This EULA shall be governed by the laws of the State of California and applicable United States Federal law without reference to "conflict of laws" principles or provisions. The United Nations Convention on Contracts for the International Sale of Goods will not apply to this EULA. Jurisdiction and venue of any dispute or court action arising from or related to this EULA or the Software shall lie exclusively in or be transferred to the courts the County of Santa Clara, California, and/or the United States District Court for the Northern District of California. You hereby consent and agree not to contest, such jurisdiction, venue and governing law.

3.2 Section 3.1 notwithstanding, if you acquired this product in Canada, this EULA is governed by the laws of the Province of Ontario, Canada. In such case each of the parties to this EULA irrevocably attorns to the jurisdiction of the courts of the Province of Ontario and further agrees to commence any litigation that may arise under this EULA in the courts located in the Judicial District of York, Province of Ontario. If you acquired this product in the European Union, this EULA is governed by the laws of The Netherlands, excluding its rules governing conflicts of laws and excluding the United Nations Convention on the International Sale of Goods. In such case each of the parties to this EULA irrevocably attorns to the jurisdiction of the courts of The Netherlands and further agrees to commence any litigation that may arise under this EULA in the courts of The Hague, The Netherlands.

3.3 Trimble reserves all rights not expressly granted by this EULA.

3.4 Official Language. The official language of this EULA and of any documents relating thereto is English. For purposes of interpretation, or in the event of a conflict between English and versions of this EULA or related documents in any other language, the English language version shall be controlling.

Contents

Legal Notices	2
Contents	9
Safety information	12
Battery safety	12
Power supply safety	13
Touchscreen glass	13
Service safety	13
Safe environments of use	14
Hearing damage	14
Distraction	14
Telecommunications & Internet Association (TIA)	14
Specific Absorption Rate (SAR)	15
Caring for your device	15
Cleaning	15
Touchscreen care	15
Battery care	15
Product specifications	16
Introduction	18
Registration	18
Configuration options	18
In the box	19
Replacement and spare or optional accessories	19
Trimble Empower modules	19
Parts of the T7 tablet	20
Basic setup and operation	23
Inserting SD and SIM cards	24
Attaching the handstrap	24
Tethering the stylus	25
Installing a screen protector	26
Installing and removing the batteries	26
Installing the batteries	27
Removing / hot-swapping a battery	27
Charging and power modes	28
Charging the batteries in the device	28
Checking the battery charge level	28
LED charging status	29
Turning the device on	29
Saving battery power	29
Wake and unlock	29
Restart the device	30
Turning off the device	30

Power options	30
Making your battery last longer	30
Using the touchscreen	31
Main touchscreen input gestures and functions supported on the T7 tablet	31
Using the onscreen keypad	32
Using the stylus	32
Using the programmable keys	33
Using the Windows 10 operating system	34
Using accounts	34
Sign in	34
Sign out	34
Using the Start menu	34
Using the Action Center	35
Using the Windows Mobility Center	35
Using Task View and virtual desktops	35
Settings	36
Display settings: adjusting the backlight	36
Display settings: rotation lock	37
Using wireless networks	38
Working with Wi-Fi networks	38
Connecting to Wi-Fi	38
Disconnecting from a Wi-Fi network	39
Forgetting a Wi-Fi network	39
Working with mobile broadband	39
Connecting to mobile broadband	39
Locating the device's IMEI number	40
Airplane mode	40
Working with GNSS	41
Using accessories and connecting to other devices	42
Connecting to USB accessories	42
Connecting to Bluetooth accessories	42
Transferring data between your T7 tablet and another computer	43
Using Empower modules	44
Installing Empower modules	44
Using the pole mount	45
Using the shoulder sling	46
Using the desktop hub	46
Using the cameras	47
Taking photos and videos	47
Changing camera settings	48
Enable the Camera app to access your location to geo-tag photos	48
Viewing photos and videos	48

Using the pre-installed apps	49
Trimble Empower Hub	49
Trimble GNSS Status utility	49
Touch Control app	49
Function Key Setting app	50
Bundled Microsoft apps	50
Getting more apps	50
Troubleshooting	51
Further assistance and support with the Windows 10 operating system	51
Performance issues	51
Device is running slowly	51
Empower module issues	52
My field software doesn't recognize my Empower module	52
Wireless connectivity issues	52
Wi-Fi speed is slow	52
Power and battery issues	53
Battery will not charge	53
Device will not start up	53
Device suddenly turned off during use	54
Restarting or resetting the operating system	54
Restarting your (unresponsive) device	54
Resetting your device	54
Resetting your device when the operating system is unresponsive	55
Operating system and software updates	55
Windows 10 updates	55
Software downloads and updates	56
Repairing your device	56

Safety information

- Battery safety, page 12
- Power supply safety, page 13
- Touchscreen glass, page 13
- Service safety, page 13
- Safe environments of use, page 14
- Hearing damage, page 14
- Distraction, page 14
- Telecommunications & Internet Association (TIA), page 14
- Specific Absorption Rate (SAR), page 15
- Caring for your device, page 15

Read this guide for important safety and health information and the terms of the Limited Warranty that apply to the Trimble® T7 tablet that you have purchased. Keep all printed guides for future reference. Failure to follow instructions and properly set up, use, and care for this product can increase the risk of serious injury or death, or damage the device or devices.

Battery safety

Lithium-Ion batteries are classified by the U. S. Federal Government as non-hazardous waste and are safe for disposal in the normal municipal waste stream. These batteries contain recyclable materials and are accepted for recycling. Dispose of used batteries in accordance with local regulations.

WARNING – Non-approved batteries will not function in the device. Use only the battery for the system for which it was specified. Only use the battery with a charging system that has been qualified with the system per this standard. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.

WARNING – There are no user-serviceable parts in the batteries. Do not disassemble or open, crush, bend or deform, puncture, or shred the battery. Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, or expose to fire, explosion, or other hazard. Do not expose to temperatures above +70 °C (+158 °F).

WARNING – Improper battery use may result in a fire, explosion, or other hazard.

- Do not short circuit a battery or allow metallic or conductive objects to contact the battery terminals.
- Avoid dropping the device or battery. If dropped, especially on a hard surface, and the user suspects damage to the battery, take it to a service center for inspection.
- In the event of a battery leak, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with large amounts of water and seek medical advice.
- Battery usage by children should be supervised.

Power supply safety

WARNING – Use only AC and vehicle adapters intended for the device. Other external power sources may damage your product and void the warranty.

- Ensure the input voltage on the adapter matches the voltage in your location. Ensure the adapter has prongs compatible with your outlets.
- The AC power supply is designed for indoor use only. Avoid using the AC power supply in wet areas.
- Unplug the power supply from power when not in use.
- Do not short the output connector.

Touchscreen glass

CAUTION – The touchscreen on this device is made of glass. This glass could break if the device is dropped on a hard surface or receives a significant impact. If the glass chips or cracks, do not touch or attempt to remove the broken glass. Cracked or chipped glass due to misuse or abuse is not covered under the product's limited warranty.

Service safety

WARNING – Do not attempt to take apart, open, service, or modify the product, accessories, or power supply. Doing so could present the risk of electric shock or other hazard. Any evidence of any attempt to open and/or modify this device, including any peeling, puncturing, or removal of any of the labels, will void the Limited Warranty.

Safe environments of use

WARNING – Areas with potentially explosive atmospheres are often, but not always, posted and can include fueling areas, such as below decks on boats, fuel or chemical transfer or storage facilities, or areas where the air contains chemicals or particles, such as grain dust, or metal powders. When you are in such an area, turn off your mobile device, and do not remove or install battery chargers, AC adapters, or any other accessory. In such areas, sparks can occur and cause an explosion or fire.

Hearing damage

WARNING – To prevent possible hearing damage, do not listen to high volumes for long periods.

Distraction

WARNING – Using the device in some circumstances can distract you and may cause a dangerous situation. Observe rules that prohibit or restrict the use of mobile devices (for example, avoid operating the device while driving a vehicle).

Telecommunications & Internet Association (TIA)

Hearing Aids: Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider, or call the customer service line to discuss alternatives.

Pacemakers and Other Medical Devices: The Health Industry Manufacturers Association recommends a minimum separation of six inches be maintained between a handheld wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. Persons with pacemakers should use the ear opposite the pacemaker to minimize the potential for interference. If you have any reason to suspect that interference is taking place, turn the phone OFF immediately.

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn the phone OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Specific Absorption Rate (SAR)

This device complies with FCC and CE standards when used as designed.

Caring for your device

Cleaning

Turn off the device, and disconnect it from external power. Use a soft, dampened cloth with either water or a diluted mild detergent. If a mild detergent is used, ensure all soap residue is removed. Do not use chemical cleaners.

Touchscreen care

The T7 tablet is extremely rugged, and is designed to withstand extreme conditions and harsh treatment, however taking proper care of the touchscreen will prolong the life and ensure optimal display performance of the touchscreen of this product. Excessive or prolonged exposure to abrasives, oil, dust, chemicals, and ultraviolet light can affect the performance of your touchscreen over time.

To help protect the screen:

- **Clean it frequently.** Use a soft, lint-free cloth to wipe the screen. You can dampen the cloth with water or an eyeglass cleaner. If the display is very dirty, it can be washed off under a gently running tap.

WARNING – Make sure that all ports and doors are fully closed, and that the device is not connected to an external power supply. Do not use chemical or abrasive cleaners.

- **Keep it covered when not in use.** Store the T7 tablet in a carry case or pouch while you are in transit or not using it.
- **Keep it out of the sun when not in use.** Do not store the T7 tablet in direct sunlight for a long time unnecessarily. Ultraviolet light and excessive heat from sun-loading heat can damage the display.
- **Use proper touchscreen tools.** Use either fingers or the T7 tablet's stylus, or other devices specifically designed for use with capacitive touchscreens to operate the touchscreen of this device. The use of ballpoint pens, metal tools or other sharp objects to operate the touchscreen may scratch and/or damage the surface of the touchscreen.
- **Avoid drops, tumbles, and abrasives.** The T7 tablet is designed to resist damage for drops up to 122 cm (4 feet). However, you should protect the display from impact, pressure, and abrasive substances that can scratch it or crack it. The device should not be dropped unnecessarily. Use the screen protectors to keep the touchscreen clean and protected, following the instructions provided on the screen protector packaging.

Battery care

Use and storage temperature: Lithium-ion batteries are sensitive to high temperatures, so keep the device's batteries out of direct sun for long periods, and do not leave batteries in a hot car,

especially on a dashboard in full sun or other environments where temperatures can exceed +70 °C (+158 °F). Battery life can be shortened if stored or operated outside of these temperature ranges. Recommended storage temperature is at room temperature (~ +20 °C / +68 °F). When you are using the device or charging the batteries, it is normal for the device and batteries to get warm.

If the interior temperature of the device exceeds normal operating temperatures (for example, in a hot car or in direct sunlight for extended periods of time), you may experience the following as it attempts to regulate its temperature automatically:

- The device stops charging.
- If the device cannot regulate its internal temperature, it may go into a Sleep state until it cools.

Move the device to a cooler location out of direct sunlight and wait a few minutes before trying to use the device again.

Charging: Recharge the battery any time; the battery does not need to be empty or low before you recharge it. However, it is best to let the battery run to below 10 percent at least once a month before you recharge it. Battery recharging is supported at temperatures between 0 °C and +40 °C (+32 °F and +104 °F). Use only the manufacturer designated charging accessories to recharge the batteries.

Other environmental conditions: The batteries are sealed from water and dust, and are tested for protection from drops from heights up to 1.22 m (4.00 ft). However to prolong the life of the battery, dry it off with a cloth if it becomes wet, do not intentionally submerge the battery, and take care to avoid unnecessary drops, mechanical shocks, and vibrations.

The T7 tablet is designed to work in ambient temperatures between -30 °C and +60 °C (-22 °F and +140 °F) and to be stored in temperatures between -40 °C and +70 °C (-40 °F and +158 °F). Avoid exposing the device to dramatic changes in temperature or humidity.

Product specifications

Operating System	Microsoft Windows 10
Processor	Intel® Apollo Lake - N4200, 64-bit quad-core
Graphics	Intel Graphics Architecture
RAM	8 GB RAM, LPDDR4
User storage	128 GB eMMC, expandable via SDXC card up to 512 GB
Display	7-inch, 1280 × 800 landscape, 16:10, multi-point capacitive, 800 nits sunlight readable
Battery & Power	2 × 3100 mAh (22.53 Wh) min. capacity 3150 mAh (22.90 Wh) nominal capacity; removable, hot swappable, charge LED indicator Full-charge 3.5 hours, fast-charge (80 %) 1 ¾ hours
I/O	User replaceable module Standard: Charger/DC power-in, 2 × USB 3.1 Gen 1 type A host

Audio	<p>Speaker</p> <p>Dual digital microphone array with noise reduction</p> <p>External speaker/microphone: 3.5 mm mini-jack or wireless headset</p>
Bluetooth	BT 5.1
Wi-Fi	802.11 a/b/g/n/ac, 2.4 GHz radio band
Mobile broadband / WWAN	<p>Worldwide LTE in regions where it is available, and compatible with 3G/4G networks</p> <p>AT&T and Verizon certified.</p> <p>MicroSIM card</p>
GNSS	Integrated GNSS
Camera	<p>Front: 2 MP fixed focus</p> <p>Rear: 8 MP auto focus with flash</p>
Sensors	<p>3-axis accelerometer, magnetic sensor, ambient light sensor, proximity sensor.</p> <p>The orientation sensors are active and applications can access and use the sensors. For free tools that enable you to view sensor output, go to the Microsoft Store.</p>
Environmental	<p>IEC: Independently tested and certified for:</p> <ul style="list-style-type: none"> • Water and Dust Ingress Protection: IP68 <p>MIL-STD-810G. Independently tested and certified for:</p> <ul style="list-style-type: none"> • Operating temperature: -30 °C to +60 °C (-22 °F to +140 °F) • Storage temperature: -40 °C to +70 °C (-40 °F to +158 °F) • Humidity: 90 % RH temp cycle -20 °C/60 °C (-4 °F/140 °F) • 26 drops at room temperature from 1.22 m (4 ft) onto plywood over concrete MIL-STD-810G, Method 516.6, Procedure IV

Introduction

This User Guide describes how to configure and use the Trimble T7 tablet powered by the Microsoft® Windows® 10 operating system. The information in this guide supplements the information in the Quick Start Guide. Even if you have used other Trimble handheld field computers before, Trimble recommends that you spend some time reading this guide to learn about the special features of the product.

WARNING – Before you use this product, make sure that you have read and understood all safety requirements. Failure to follow these safety instructions could result in fire, electric shock, or other injury, or damage to the device and/or other property. For more information refer to [Safety information, page 12](#) of this guide.

- [Registration, page 18](#)
- [Configuration options, page 18](#)
- [In the box, page 19](#)
- [Replacement and spare or optional accessories, page 19](#)
- [Parts of the T7 tablet, page 20](#)

Registration

To receive information regarding updates and new products, contact your local dealer or go to <https://mytrimbleprotected.com/cc/productsRegistration.html>. When you register your device, you can select the newsletter, upgrade, or new product information.

To register your device, you will need the serial number. The serial number is a unique number for your T7 tablet and is located on a label inside the battery cavity.

Configuration options

The T7 tablet is powered by the Windows 10 operating system, and is available with North America / EMEA WWAN, or APAC WWAN. See your local Trimble dealer for information.

In the box

A standard pack-out has the following items:

- A T7 tablet
- 1 battery pack, which includes 2 batteries
- AC power adaptor with cable
- Tempered glass screen protector
- Stylus with tether
- Handstrap

Replacement and spare or optional accessories

A wide range of replacement and optional accessories are available to purchase for the T7 tablet, including:

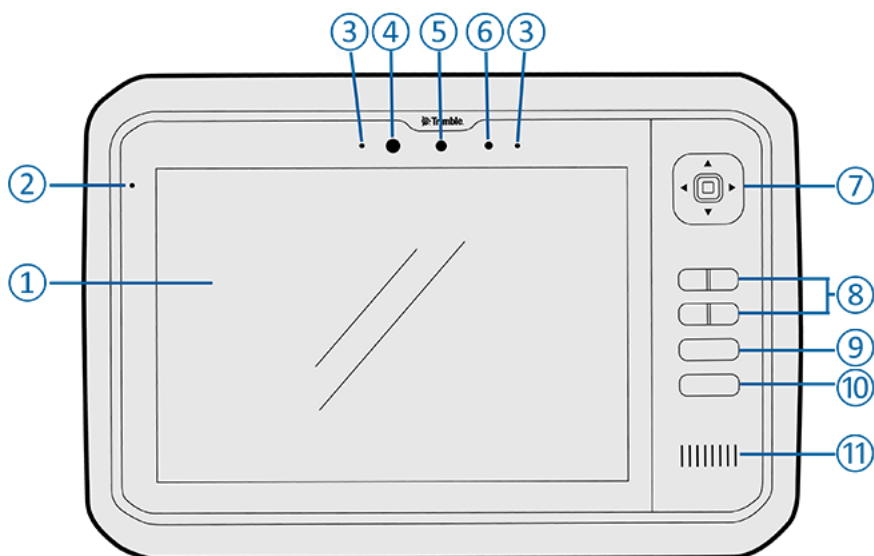
• Handstrap	• 12V Vehicle Adapter
• Shoulder Sling	• Rechargeable Battery 2-pack
• Pole Mount	• External Battery Charger
• Desktop Hub	• Glass Screen Protector
• AC Adapter with International cord	• Stylus with Tether

Trimble Empower modules

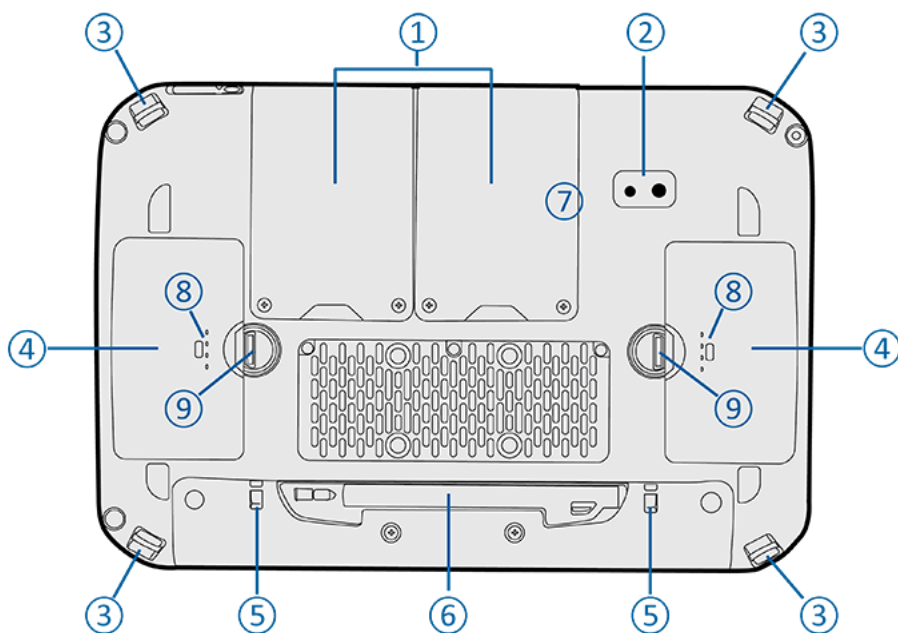
The following Trimble Empower modules are available:

- EM120 2.4GHz Module
- EM100 GNSS Module
- EM111 1D/2D Barcode Imager & UHF 902-928 MHz RFID – NA
- EM111 1D/2D Barcode Imager & UHF 865.6-867.6 MHz RFID – EU

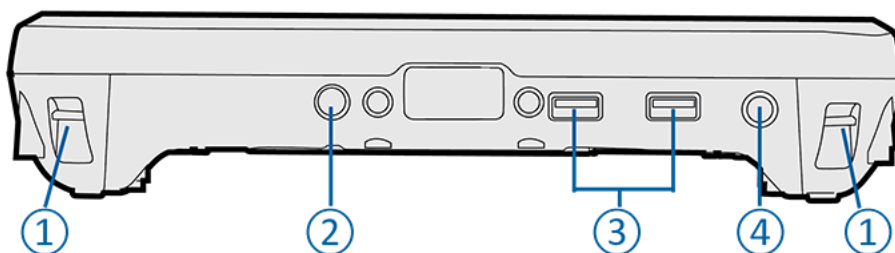
Parts of the T7 tablet



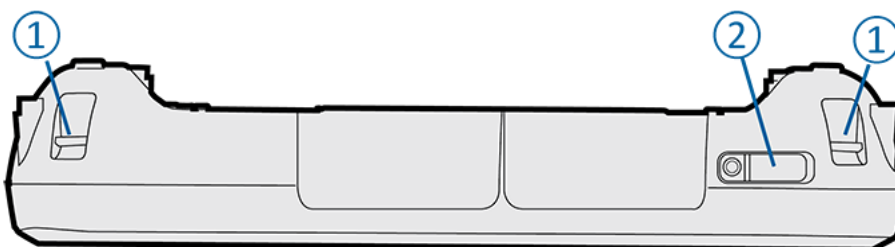
- | | | | |
|----------|-------------------------------------|-----------|---|
| 1 | Touchscreen | 7 | OK / Enter key and directional arrow keys |
| 2 | Power / charging LED | 8 | Function keys (4) |
| 3 | Microphone – left / right | 9 | Windows key |
| 4 | Light / proximity sensor | 10 | Power key |
| 5 | Camera – front
2 MP, fixed-focus | 11 | Speaker |
| 6 | Front camera LED | | |



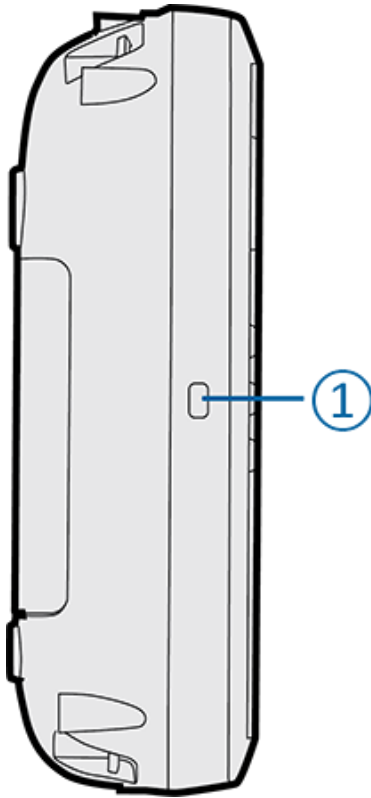
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|----------|--|----------|---|
| 1 | Empower module bays (× 2) | 6 | Stylus bay |
| 2 | Camera – rear, flash | 7 | SD and SIM card slots, behind modules / module bay covers |
| 3 | Handstrap connector points | 8 | Battery LEDs |
| 4 | Hot-swappable, field-swappable, long life battery pack (2 × batteries) | 9 | Battery locks |
| 5 | Stylus tether points | | |



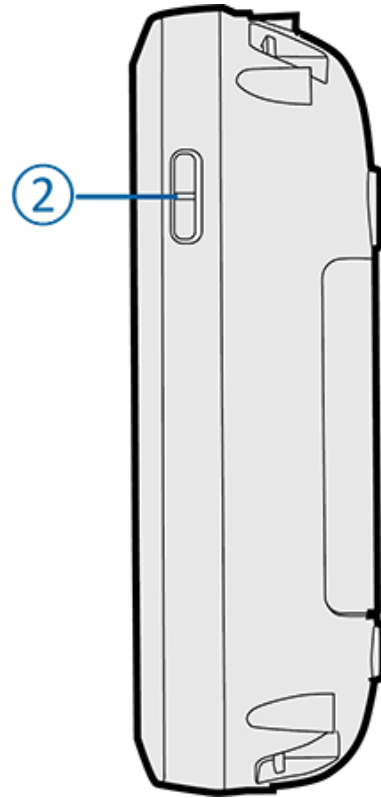
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|----------|----------------------------|----------|----------------|
| 1 | Handstrap connector points | 3 | USB connectors |
| 2 | Audio jack | 4 | Charging port |



- | | | | |
|----------|----------------------------|----------|------------------------|
| 1 | Handstrap connector points | 2 | GNSS antenna connector |
|----------|----------------------------|----------|------------------------|



1 Kensington security slot



2 Volume buttons

Basic setup and operation

This section tells you how to get started using the T7 tablet and explains some basic operating system features.

When you start the T7 tablet for the first time, the Microsoft Windows operating system will take you through some basic set-up steps; follow the instructions on the screen.

For more details on setting up and using the Windows 10 operating system see [Get Started with Windows 10](#) on the Microsoft Windows support website.


- [Inserting SD and SIM cards, page 24](#)
- [Attaching the handstrap, page 24](#)
- [Tethering the stylus, page 25](#)
- [Installing a screen protector, page 26](#)
- [Installing and removing the batteries, page 26](#)
- [Charging and power modes, page 28](#)
- [Using the touchscreen, page 31](#)
- [Using the programmable keys, page 33](#)

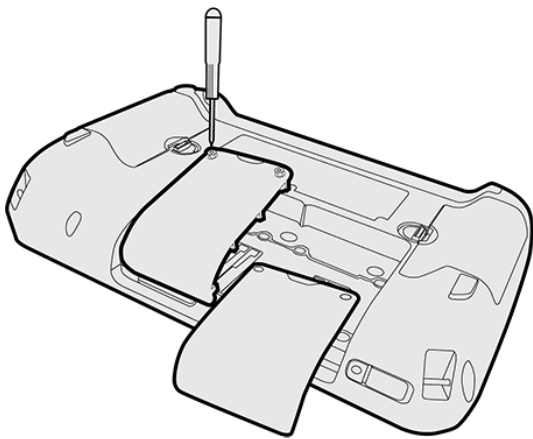
Inserting SD and SIM cards

The device includes 128 GB of onboard storage. To expand the storage, use an SDXC card. SDXC cards up to 512 GB are supported.

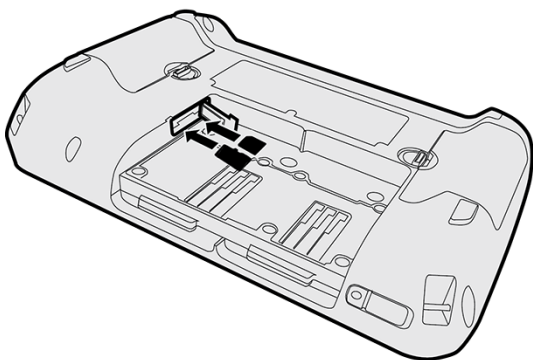
To use cellular data, you will need a MicroSIM card and a data plan from your local cellular service provider to use this feature. See [Working with mobile broadband, page 39](#) for more information.

CAUTION – The SD/SIM card door can be damaged if handled carelessly. Take care not to twist or warp the door when opening or closing it.

1. If the device is on, turn it off; tap  / **Power/ Shut down**.
2. Using a Phillips screwdriver, loosen the screws to remove both the module bay covers from the back of the device. Or, if you are using Empower modules, remove them in the same way.



3. Flip the SD/SIM bay door open, and insert the SD card and the SIM card into their respective slots.



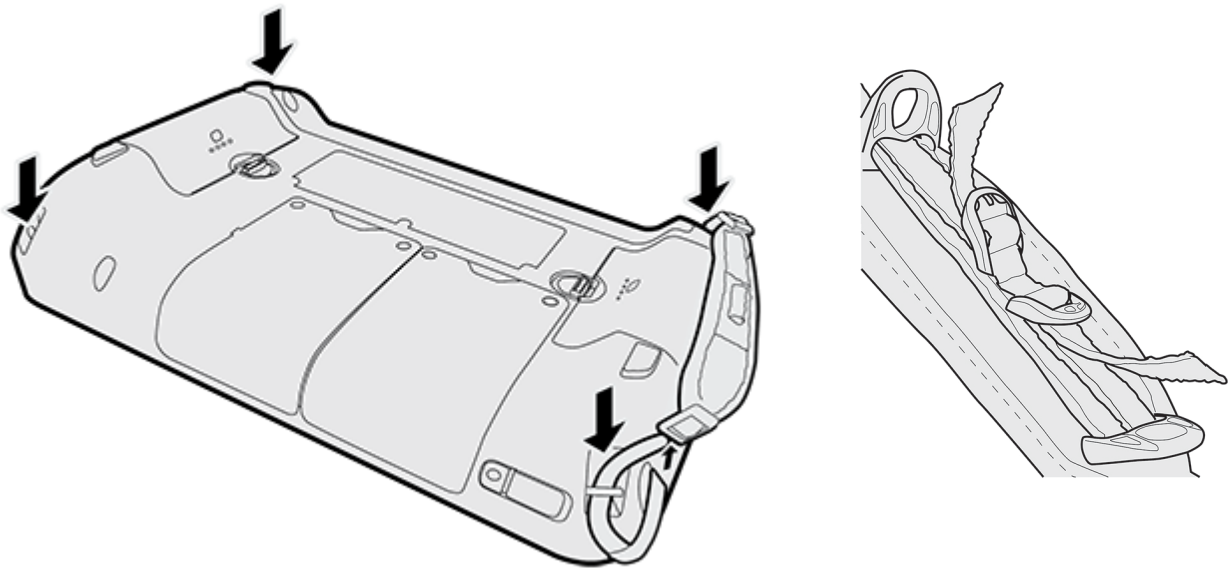
4. Close the SD/SIM bay door.
5. Replace the module bay covers, or if using modules, re-attach them. See [Using Empower modules, page 44](#).

Attaching the handstrap

Attach the handstrap to the left or the right side of the device, according to your personal preference. To ensure a good fit:

1. Thread one end of the handstrap ribbon through the bottom handstrap slot on the back left or right of the device; thread from the center of the device outward, as illustrated.
2. Pull the end of the ribbon back towards the center of the handstrap and feed it up, over, and down through the lock buckle on the handstrap and pull it tight.
3. Thread the ribbon at the other end of the handstrap through the top handstrap slot; thread from the center of the device outward.
4. Pull the end of the ribbon back towards the center of the handstrap and feed it up, over, and down through the lock buckle on the handstrap and pull it as tight as is comfortable for your hand.

If required, use a small blunt tool to push the ribbons through the handstrap slots on the device. Do not use a sharp tool.



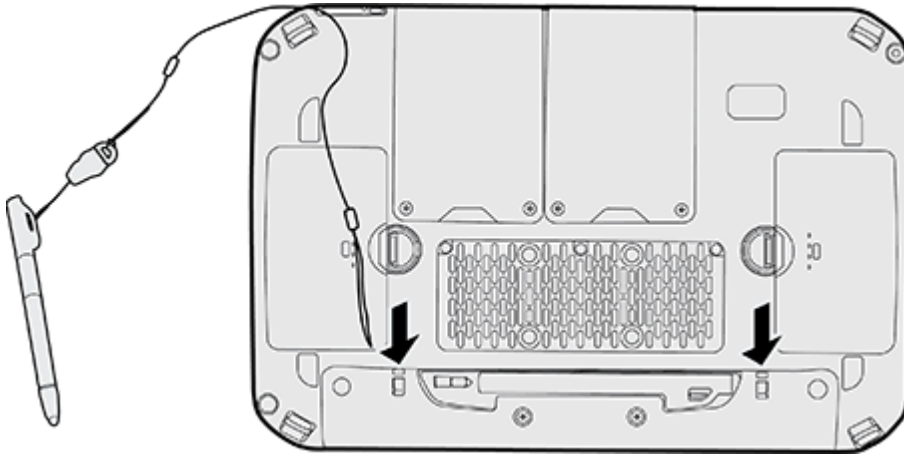
When using the handstrap, the device should sit firmly in the hand.

Tethering the stylus

Attach the stylus to the device to prevent accidentally dropping the stylus. The stylus is supplied with one end of the tether cord pre-looped to the stylus. You can attach the stylus to the left or the right side of the device. To tether the stylus to the device:

1. Take the loose end of the tether cord and push it through the left or right stylus tether point.
2. Feed the stylus through the loop and pull tight.
3. Place the stylus in the stylus dock on the back of the device (between the stylus tether points)

to store it when not in use.



Installing a screen protector

The T7 tablet is fitted with a chemically strengthened glass touchscreen, which is highly resistant to abrasion and impact damage. However to ensure maximum protection, it is recommended that you use a Trimble-approved toughened glass T7 tablet screen protector.

To install a screen protector:

1. Place the device on a clean, flat surface. Make sure your hands are clean.
2. Clean the touchscreen with the supplied alcohol wipe.
3. Polish and dry the screen with the lint-free cleaning cloth supplied.
4. Remove any dust specs with the supplied dust sticker.
5. Remove the protective film from the screen protector.
6. Align the screen protector with the top of the glass display.
7. Carefully lay the screen protector down on the screen. If you make a mistake and the glass looks off-center, you can gently lift the screen protector up and realign it. Then, once the protector is on the screen, give it a soft press in the center and allow the adhesive surface to grip to the screen naturally.

TIP – You can place the screen protector in place and fix it on the upper side with adhesive strips to the housing. This will keep the screen protector aligned when sticking it on.

8. If there are any bubbles remaining, use the cloth provided to gently smooth them toward the edges of the screen protector.

For more information on where to purchase the correct screen protector for your device, contact your local Trimble dealer.

Installing and removing the batteries

The batteries in the T7 tablet can be charged inside the device, or using the Battery charger accessory.

The batteries in the T7 tablet are also hot-swappable; you can remove one battery while the T7 tablet is still running on the second battery, and replace it with a freshly charged battery without shutting down or needing to restart the device.

CAUTION – If you remove both batteries, the device will shut down and work may be lost.

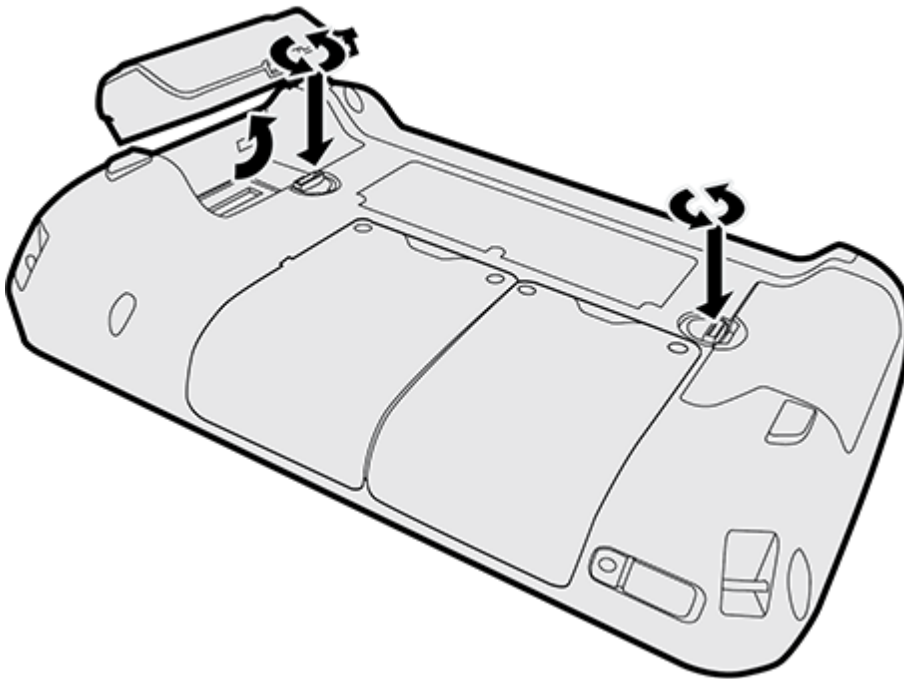
Installing the batteries

For either battery:

1. Turn the battery latch 180° anticlockwise until the flat edge aligns with the battery opening.

NOTE – You can use a coin or the top of the stylus to do this.

2. Insert the battery, then turn the battery latch 180° clockwise to lock the battery in place.



Removing / hot-swapping a battery

CAUTION – Trimble strongly recommends that before you hot swap a battery, you save your data.

CAUTION – If you remove both batteries at the same time, the device will instantly turn off due to power loss. Make sure you keep one battery in the device.

If you have the device turned off you can remove both batteries at the same time.

To hot-swap the batteries, replace one battery at a time:

1. With the batteries in the device, press the charge button on each battery to check its charge level (see [Checking the battery charge level, page 28](#)). Make sure there is enough charge in one

of the batteries to keep the device running. Replace the battery with the lowest charge first.

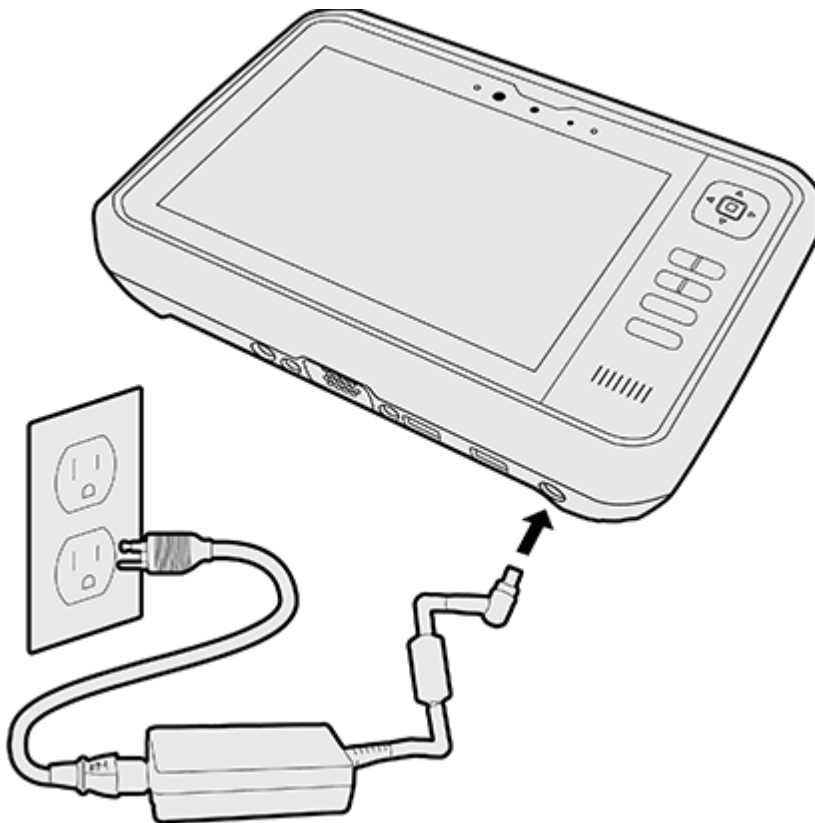
2. For the battery with the lowest charge, turn the battery latch 180° anticlockwise until the flat edge aligns with a battery opening, then remove the battery.
3. Replace this battery with a fully charged battery.
4. Turn the battery latch 180° clockwise to lock the battery in place.

Charging and power modes

It takes approximately 6 hours to charge the T7 tablet batteries from an empty state. It may take longer if you are using your device for power-intensive activities, for example using GNSS or processing a lot of data while you are charging it.

Charging the batteries in the device

1. Connect the appropriate international plug adapter for your region to the AC adapter.
2. Connect the power cord to the charging port on the device.
3. Plug the power supply into an electrical outlet.








Checking the battery charge level

You can check the battery level:

- on the Lock screen. When you wake the device, the battery status appears in the lower-right corner of the Lock screen.





- on the Desktop taskbar. The battery status appears on the right side of the taskbar. Tap the battery icon for information about the charging and battery status, including the charge percent remaining.
- on the battery. Press the button on the battery to check the battery charge level. You can check the charge level of the battery in this way when the battery is inserted in the device, or when it is not.

The LEDs on the battery will show one of the following:

-  = No LEDs are lit: < 4 %
-  = 25 %
-  = 50 %
-  = 75 %
-  = All LEDs are lit: 100 %

LED charging status

The charging status is shown with an LED on the front top left corner of the display.

-  Red: charging error. It can take the device approximately 30 seconds to recognize a bad battery and indicate a charging error.
-  Orange: T7 tablet is charging.
-  Green: T7 tablet is fully charged.
-  Green - Flashing: T7 tablet is in Sleep state.

Turning the device on

To turn on the device, press the **Power** key. The Trimble logo appears. Swipe up on the touchscreen to enter a PIN or password.

Saving battery power

To save battery power, set the screen to turn off when you haven't used it for a length of time. This state enables the device to resume quickly when you want to start working again.

To further save battery power, set the device to go into Sleep state when you haven't used it for a length of time. Sleep state saves your work and turns off the device. When you start up the device again, you are back where you left off.

To set the screen turn-off time and the Sleep state time, go to **Settings / System / Power & sleep**.

Wake and unlock

To wake the screen when it has turned off, press any key or swipe the screen.

To wake your device from Sleep state, press any key. After waking your device, to unlock it:

1. Swipe up from the bottom edge of the screen or press a key.
2. At the sign-in screen, enter your password or PIN.

Restart the device

To restart your device, tap **Start**  / **Power** / **Restart**.

Turning off the device

To turn off the device, tap **Start**  / **Power** / **Shut down**.

For information on customizing power management features, see [Power options, page 30](#).

Power options

The Windows 10 operating system comes with pre-defined power options (Balanced, Power Saver, and High Performance). To access Power Options:

1. On the Desktop, tap the **Battery icon** in the **Notifications** bar at the bottom right of the screen, then tap **Power & sleep settings**.
2. Make sure **Power & sleep** is selected in the list on the left, then under **Related settings**, tap **Additional power settings**.

By default, the device is in **Balanced** mode.

Making your battery last longer

Following are some practical suggestions that you can do to maximize the operating time of the battery:

- Enable Power Management, and choose a power plan that saves power. A power plan is a collection of hardware and system settings that control how the device manages power.
- Decrease the display brightness to the lowest comfortable level .
- Shorten the length of time before the operating system turns off the display.
- Change your Sync settings. Go to **Settings** / **Accounts** / **Sync your settings** and deselect any items that do not need to sync across your Windows devices.
- If you use a USB flash drive, unplug it when you are not using it. Many USB devices use power just by being connected.
- Turn off the wireless radios when you are not using them. See [Using wireless networks, page 38](#).
- Turn off Empower modules if you will not be using them for a prolonged period. See [Using Empower modules, page 44](#).
- Turn off the screen rotation. See [Display settings: rotation lock, page 37](#).
- Turn off the device when you are not using it. See [Turning off the device, page 30](#).

For more information on making your battery charge last longer, refer to the help topic on *Battery Saving tips on the Windows 10* support site on www.microsoft.com.

Using the touchscreen





Your T7 tablet can be easily operated with the touchscreen (using your fingers, a stylus, or a glove), or an onscreen keypad.





Use the **Touch Control** app on the device to select or switch between any of the touchscreen input methods.

The touchscreen on the T7 tablet works reliably in wet conditions when a glass screen protector is fitted (see [Installing a screen protector, page 26](#)) and you are using Finger mode. Keep the surface clear of excessive build-up of water; tilt the tablet to drain away excess water, or wipe it away with a soft cloth.

Main touchscreen input gestures and functions supported on the T7 tablet

The table below describes the main touchscreen input gestures and functions supported on this device.

Tap 	Tap once on something.	Opens/executes the action of what you tap on. To enter text, tap where you want to type; the onscreen keypad displays.
Press- hold 	Press-hold your finger or the stylus down for a few seconds.	Shows a menu with options related to what you're doing (like right-clicking with a mouse). On the pop-up menu that appears, tap the action you want to perform.
Double-tap 	Double-tap on something.	Tap quickly twice on a webpage, map, or other screen to zoom. Double-tapping after pinching to zoom in some apps, such as Browser, reflows a column of text to fit the width of the screen.
Slide / swipe 	Slide / swipe your finger or the stylus across the screen.	Scrolls through what's on the screen. Quickly move your finger across the surface of the screen, without pausing when you first touch it, to scroll a page or a list up or down. Scrolls vertically or horizontally.

<p>Drag</p> 	<p>Drag your finger or the stylus across the screen.</p>	<p>Hold your finger or the stylus on an item for a moment and then, without lifting your finger/the stylus, move across the screen until you reach the target position.</p> <ul style="list-style-type: none"> • Drag in a list to select multiple items. • Drag items on the screen to reposition them.
<p>Pinch / stretch</p> 	<p>Pinch your thumb and forefinger together or move them apart.</p>	<p>Zooms in or out of a website, map, or picture.</p>
<p>Rotate</p> 	<p>Put two or more fingers on an item and then turn your hand.</p>	<p>Rotate the screen left or right in apps that support it, such as Maps.</p>
<p>Swipe from edge</p> 	<p>Swipe in from an edge of the screen.</p>	<ul style="list-style-type: none"> • Left edge swipe. Displays the Task View, the universal task-switching interface. See Using Task View and virtual desktops, page 35 • Right edge swipe. Displays the Action Center. See Using the Action Center, page 35. • Top edge swipe. Displays the Notification bar. • Bottom edge swipe. Displays the taskbar when the currently-running app is displayed full screen.

Using the onscreen keypad

You can type on the device using the touchscreen keypad.

To access the onscreen keypad, tap in a text field, or tap the keypad icon in the taskbar. To hide the keypad, tap anywhere out of the text field, or tap the keypad icon again.

Using the stylus

Launch the **Touch Control** app to switch between **Finger**, **Glove**, and **Stylus** mode.

NOTE – Trimble recommends that you use the Trimble T7 tablet stylus accessory. There are many other capacitive touch styli available that will work with the T7 tablet as long as they have a rubber tip; however the stylus available as an accessory is tuned for the T7 tablet display and it fits into the stylus holder. Trimble offers no guarantee that other styli will work.

Take notes, draw, navigate, and mark up documents in your apps using the stylus that comes with your device.

To make a selection, tap the screen once on the item you want to select.

To display a right-click menu, tap and hold an item on the screen, then tap the required menu item.

Using the programmable keys

There are 4 "F" keys on the front of the tablet that you can assign actions or apps to. There are also 4 directional arrow keys on the front of the tablet that by default are set to Up, Down, Left, and Right. You can assign other actions or apps to these directional keys.

To assign other actions to any of the keys, use the **Function Key Setting** app:

1. Open the **Function Key Setting** app.
2. On the left, tap the key you want to assign an action to.
3. Select the required option—**Open Application**, **Open Web Page**, **Special Key**, or **Other Action**.
4. In the field for the selected option, select or enter the required function / parameters.
5. Tap **Apply** then tap **Save**.




To discard your changes, tap **Cancel**.

Using the Windows 10 operating system

This section introduces some basic information on using the Windows 10 operating system on the T7 tablet . For comprehensive information, go to [Get Started with Windows 10](http://windows.microsoft.com) on <http://windows.microsoft.com>.

Using accounts

When you set up the T7 tablet, an account is set up for you. You can create additional accounts later for each user of the device, so that each person using the device can have their own settings.

To set up additional accounts and to change account settings, tap , then tap the quick-access Accounts icon . Or, go to  / **Settings** / **Accounts**.


Sign in

1. Press the Power button to turn on or wake the T7 tablet .
2. Swipe up on the screen.
3. If there are multiple accounts set up on the device, select your account from the list. Tap **Sign in** and enter your password (if one has been set).

Sign out

Tap-hold , and tap **Shutdown or sign out**, then tap **Sign out**.

Using the Start menu


Tap  open the **Start** menu.

At the lower left of the **Start** menu, you'll find quick links to **Account** settings, all other **Settings**, and **Power** (shut down, sleep, and restart).

The apps you've used most often appear at the top of the **Start** menu.

Tiles on **Start** act as quick links to apps. You can rearrange, resize, add, and remove tiles whenever you want. To add an app tile, tap-hold it in the **Start** menu and drag-drop it to the **Tiles** area. For more information, see [Organize your apps](http://windows.microsoft.com) on <http://windows.microsoft.com>.

Using the Action Center


Swipe in from the right edge of the screen or tap **Action Center**  on the taskbar to open the Action Center. Examples of what you can use the Action Center for include:

- viewing notifications
- adjusting common settings like Wi-Fi connections or screen brightness
- creating a wireless connection to other devices

For more info, see [Find your notifications](http://windows.microsoft.com) on <http://windows.microsoft.com>.



Using the Windows Mobility Center

Tap-hold , and tap **Mobility Center**. Use the Mobility Center to, for example:

- view device information
- adjust common settings such as screen brightness, screen rotation, and volume
- manage Wi-Fi and Bluetooth connections


Using Task View and virtual desktops

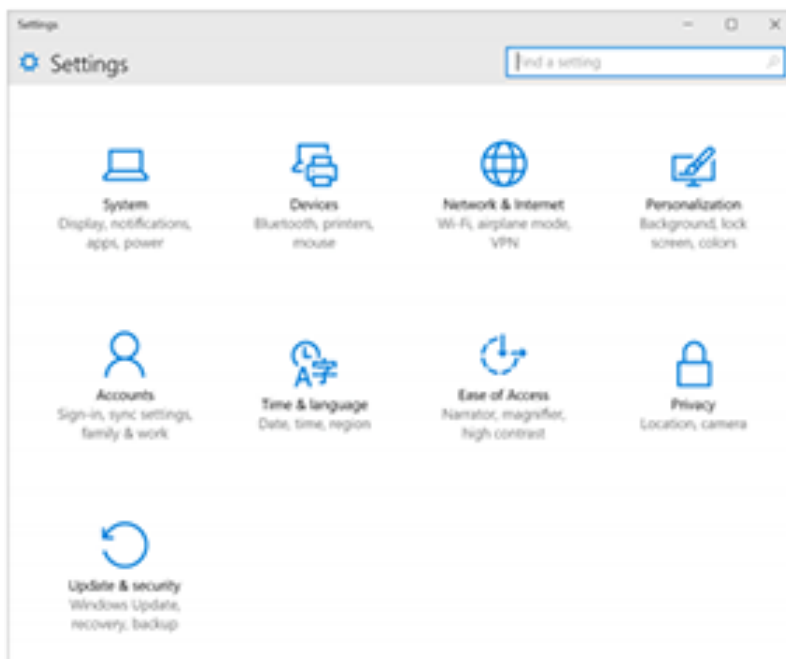
Task View allows you to quickly hide all windows and show the desktop, find an open window, and manage windows across multiple "virtual desktops".

Swipe in from the left edge of the screen or tap **Task View** on the taskbar to display all open windows, access any virtual desktops you have set so you can switch between them, and add more virtual desktops if you need to.



Settings


Tap  / Settings for access to all your settings.





Display settings: adjusting the backlight

The T7 tablet is equipped with a high brightness outdoor readable display. You can easily increase the brightness of the display to increase the readability of the device in bright sunlight conditions, or turn down the brightness to help conserve battery power when working indoors or in dull conditions. You can also have the device automatically adjust the backlight power depending on the ambient light conditions.

To set the backlight to adjust automatically:


1. Tap  / **Settings** / **System** / **Display**.
2. Turn the automatic adjustment on or off using the toggle switch.

Alternatively:

1. Swipe in from the right edge of the screen or tap **Action center**  on the taskbar to open the Action center, then expand the quick-access icons if they are collapsed.
2. Tap the brightness icon  to adjust the display brightness setting.
 - If the backlight is not set to adjust automatically, the backlight cycles between 0%, 25%, 50%, and 100% power.
 - If the backlight is set to adjust automatically, the backlight cycles between Darkest, Darker, Suggested, Brighter, and Brightest.



Tap until you reach the backlight level that best suits your conditions.

You can also manually adjust the backlight setting from the **Display** dialog:

1. Tap  / **Settings** / **System** / **Display**.
2. Use the brightness level slider to fine tune the display brightness level.

Display settings: rotation lock

The T7 tablet is equipped with orientation sensors that can detect if your device is in portrait or landscape orientation. The operating system can automatically adjust the display to match your device orientation, or you can lock the orientation.

To adjust the automatic display orientation feature, swipe in from the right edge of the screen or tap **Action center**  on the taskbar to open the Action center, then select rotation lock  to turn rotation lock on or off.

Using wireless networks

- [Working with Wi-Fi networks, page 38](#)
- [Working with mobile broadband, page 39](#)
- [Airplane mode, page 40](#)

The T7 tablet supports wireless connectivity; connect to wireless networks using the built-in Wi-Fi radio (also sometimes called Wireless LAN, WLAN, or 802.11), or the built-in mobile broadband data (also called Wireless WAN, WWAN, or cellular data) capability.


This section describes how to get online with the T7 tablet using these wireless networking capabilities.


Working with Wi-Fi networks

Using Wi-Fi you can connect to a wireless network and browse the internet, download apps, send email messages, access online services, or access other computers and devices on your network.


Before you can send and receive data over Wi-Fi, you need to turn on Wi-Fi on the T7 tablet and connect to a wireless network.

Connecting to Wi-Fi

1. Tap the Wireless network icon  in the bottom-right corner of the screen. If it isn't showing, swipe in from the right side of the screen to open the Action Center, then tap **Network**.
A list of available wireless networks appears.
2. Select the Wi-Fi network you want to connect to.
3. Tap **Connect**. If prompted, enter your network security key (network password), and tap **Next**.
4. If prompted, choose whether you want to share with other computers and devices on the network. Select **No** if you are connecting to a network in a public place like a café.

You can check your connection by opening the browser and connecting to the internet; tap , and select **All Apps / Internet Explorer**. Some wireless networks may require you to enter a password in a browser window.


Disconnecting from a Wi-Fi network

1. Tap the Wireless network icon  in the bottom-right corner of the screen.
2. Select the network that has a **Connected** status.
3. Tap **Disconnect**.

Forgetting a Wi-Fi network

If you do not want your device to automatically connect to a saved Wi-Fi network, you can forget that network.

To forget a wireless network so it no longer appears in your list of networks:



1. Tap  / **Settings**.
2. Select **Network and Internet** / **Wi-Fi** / **Manage known networks**.
3. In the list of networks that appears, tap the network you want to remove, and tap **Forget**.

Working with mobile broadband

The T7 tablet has an integrated cellular modem enabling you to connect to a mobile broadband network. The T7 tablet supports Worldwide LTE (where available), and is compatible with AT&T- and Verizon-certified 4G networks.

Before you can send and receive data over mobile broadband, you must have a microSIM card in the device (see [Inserting SD and SIM cards, page 24](#)). You must then turn on Cellular data on the T7 tablet and configure the connection.

Connecting to mobile broadband

1. Tap the Wireless network icon  in the bottom-right corner of the screen. If it isn't showing, swipe in from the right side of the screen to open the Action Center.
2. Tap **Cellular** to turn it on, then tap-hold it and tap **Go to Settings**. (Or, tap  / **Settings** / **Network & Internet** / **Cellular**.)
3. If you want to connect to this network every time it's in range, select **Let Windows manage this connection**.
4. Select **Roam** or **Don't Roam**, as required. You might incur extra charges if you allow roaming.
5. Choose whether to use cellular instead of Wi-Fi when Wi-Fi is poor. Windows will switch automatically between Wi-Fi and cellular broadband as needed.

For more information, refer to the help topic on *Cellular settings in Windows 10* on the Windows 10 support site www.support.microsoft.com.

Locating the device's IMEI number

The IMEI number is a unique 15-digit number that identifies the cellular module installed on your device. Your mobile broadband operator may need to know the IMEI number of your device to register the device with the network and activate your mobile broadband data plan.

If your T7 tablet is mobile broadband enabled, the IMEI number is printed on the serial number label under the battery.

Alternatively, to check the IMEI number in the operating system:



1. Tap **Settings / Network and Internet / Cellular**.
2. Select the Cellular module icon, then select **Advanced options**.
The cellular module properties (including the IMEI) are displayed in the **Properties** section.
3. To copy the IMEI number to the clipboard, tap **Copy**, then paste the text into your desired application (for example, Notepad, or the Email client) using the Paste command or the Ctrl+V keypad shortcut.

If you cannot find the IMEI number for your device, or you do not have the device with you, contact your reseller.

Airplane mode

If you are traveling on an airplane, or don't need to use wireless functions on the T7 tablet for a while, use Airplane mode to turn on or off all wireless radios with transmitting features built into the T7 tablet, including Bluetooth, Wi-Fi, Cellular LTE, or GNSS, as well as any wireless radios connected to the T7 tablet such as Empower modules.

To turn Airplane mode on or off:

- on the touchscreen, tap the Action center icon  on the taskbar, then select **Airplane mode** . If the icon is dimmed, Airplane mode is off.

Working with GNSS

The T7 tablet has a built-in 2 to 4 meter accuracy GNSS (Global Navigation Satellite System) receiver module, and an integrated antenna with automatic SBAS corrections. The integrated receiver supports SBAS satellites under normal conditions.

The T7 tablet supports most of the external Trimble GNSS receivers, including the submeter Trimble EM100 GNSS Empower module. Refer to the documentation for the Trimble receiver you want to use, and check the specifications and connection options. If you want to connect via Bluetooth make sure your receiver is capable of using a Bluetooth PIN; older receivers may not connect due to the security expectations of the Windows 10 operating system.

You cannot use an external antenna with the T7 tablet's integrated GNSS receiver. For advanced GNSS setups, use a survey-grade receiver, or the Trimble EM100 GNSS Empower module; refer to the Trimble Empower module user documentation for more information. With a GNSS L1/L-band GNSS module, you can receive GNSS positions with submeter accuracy.

You cannot postprocess GNSS data from the internal receiver. If you want raw GNSS data for postprocessing, use an external GNSS receiver or the EM100 GNSS Empower module; refer to the Trimble Empower module user documentation for more information.

Using accessories and connecting to other devices

- [Connecting to USB accessories, page 42](#)
- [Connecting to Bluetooth accessories, page 42](#)
- [Transferring data between your T7 tablet and another computer, page 43](#)
- [Using Empower modules, page 44](#)
- [Using the pole mount, page 45](#)
- [Using the shoulder sling, page 46](#)
- [Using the desktop hub, page 46](#)

You can connect monitors, accessories, and other devices directly to your T7 tablet using USB or Bluetooth and RS-232. Some custom accessories can connect to the device through the proprietary docking connector.

Connecting to USB accessories

The T7 tablet has a USB port for connecting USB devices, such as a flash drive, scanner, or printer. The T7 tablet has built-in support for mass storage devices and human interface devices.

Other types of USB devices may require drivers.

To connect a USB device, plug the device cable into the USB A-type port on the bottom of the T7 tablet .

Connecting to Bluetooth accessories

The T7 tablet has embedded Bluetooth wireless technology—a short-range wireless communication technology that allows wireless data transfer and communication between devices over a distance of up to 10 meters (30 feet).


To pair the T7 tablet with a Bluetooth device, it must have a Bluetooth PIN. Some old Bluetooth devices do not require a PIN. For security, the T7 tablet cannot connect to these older devices that do not require a PIN.

NOTE – To connect to a Bluetooth-enabled receiver with a PIN, if for any reason you cannot connect via Bluetooth, connect over Wi-Fi to configure the receiver. The IP address is in most cases 192.168.142.1. Refer to the documentation for the receiver for details and receiver specific settings.

TIP – To save battery, turn off Bluetooth when you are not using it. Bluetooth is off when the device is in [Airplane mode](#).

Before you can transfer data or communicate between your T7 tablet and another Bluetooth enabled device, you must pair the T7 tablet and the device.

To pair and connect a Bluetooth device with the T7 tablet :

1. Turn on the Bluetooth device and make it discoverable. To learn how to do this, check the documentation for the Bluetooth device or go to the manufacturer's website.
2. Tap  / **Settings** / **Devices** / **Bluetooth**.
3. Make sure the slider is set to On, then tap **Add Bluetooth or other device**, then tap **Bluetooth**. The T7 tablet searches for Bluetooth devices.
4. In the list of Bluetooth devices, tap the device you want to pair with the T7 tablet .
5. Follow the on-screen instructions to finish pairing the devices.
6. If the other device requires a passcode (sometimes called a pairing code), you'll be prompted for it. If you don't know the passcode, check the information that came with the device or the manufacturer's website.

Transferring data between your T7 tablet and another computer

The T7 tablet is powered by the Windows 10 operating system, and cannot connect directly to an office computer powered by a Windows operating system as a 'client' in the same way as a device with a mobile operating system can. You may still want to transfer data from the T7 tablet to another PC; there are a number of ways you can do this, including:

- Using cloud-based file sync services, such as Trimble Connect, [Dropbox](#), [Microsoft OneDrive](#), [Google Drive](#) over Wi-Fi or 4G
- Via Ethernet; see [Using the desktop hub, page 46](#)
- Via Wireless LAN; see [Working with Wi-Fi networks, page 38](#)
- USB memory stick; see [Connecting to USB accessories, page 42](#)

Using Empower modules

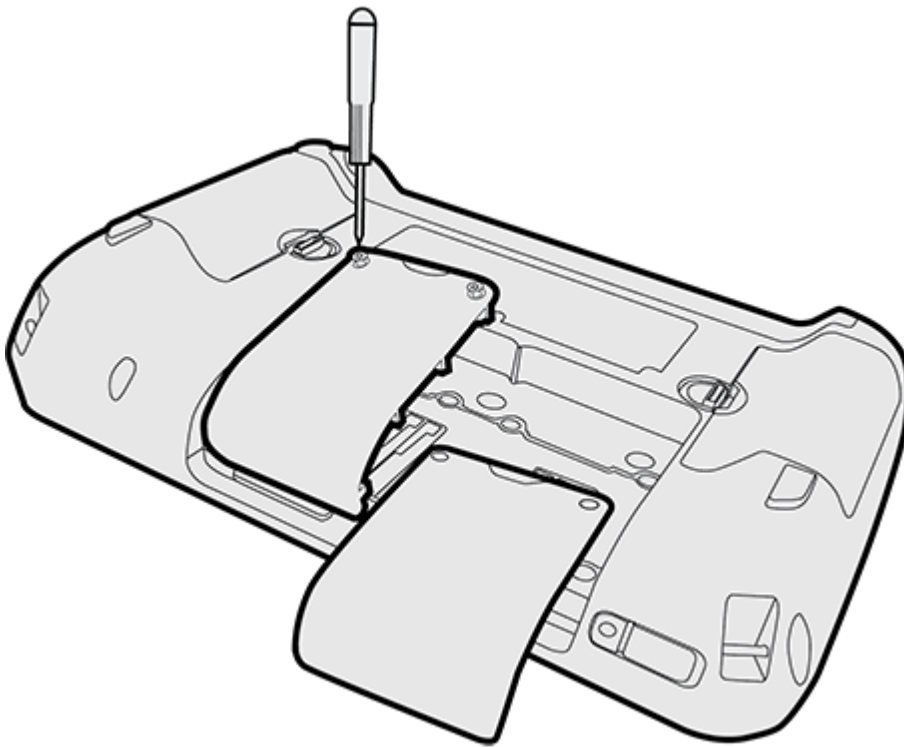
Empower modules can be used to extend or expand the basic capabilities of your device. Each Empower module can be installed, removed, or moved from one Empower-enabled device to another.

The T7 tablet allows up to two Empower modules to be installed at a time.

For more information about using Empower modules, refer to the Empower module documentation.

Installing Empower modules

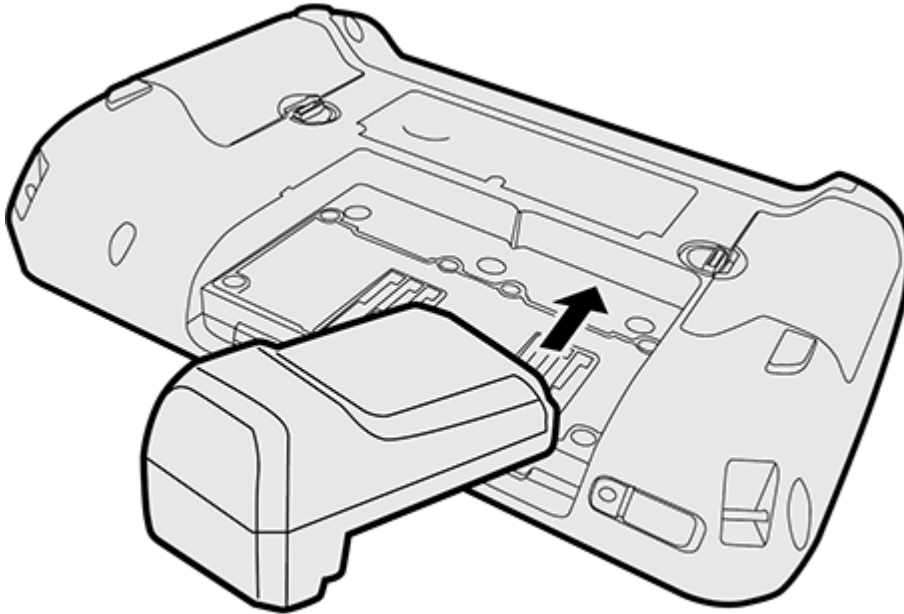
1. Make sure your device is turned off. For more information, see [Charging and power modes](#), page 28.
2. Turn the device over, and using a Phillips #1 screwdriver, loosen the 2 screws on one or both Empower module bay cover(s) to remove it/them.



Store the covers somewhere safe for future use if needed.

NOTE – Before you remove a module from the device, make sure the device is powered off. Reattach the module bay cover when no module is attached.

3. Hook the Empower module onto the device, ensuring that the slots on the top of the device line up with those on the Empower module.



4. Tighten the 2 captive screws at the bottom of the Empower module using a Phillips #1 screwdriver. Do not overtighten the screws.
5. Turn on the device and start the Empower Hub (found under Start / Empower / Empower Hub). The Empower Hub is a centralized location for managing and monitoring your Empower modules.

NOTE – Some modules do not require you to start the Empower Hub to manage the module. You may only need to use the Hub to turn the module off to save battery charge.

NOTE – Some modules may require that additional drivers and / or supporting applications be installed before the base device recognizes the module; contact your Trimble dealer for help.

Using the pole mount

An optional accessory for the T7 tablet, the pole mount consists of two parts:

- a plate that screws onto the device, and can be left in place once attached
- the pole mount itself.

The plate and the pole mount are connected using a quick-release connector that is compatible with other Trimble mounting products.

To use the T7 tablet on a pole, screw the plate onto the back of the device, then connect the pole mount onto the plate. Trimble recommends that you connect it so that the pole arm is on the left (from the back view) of the device; this way it does not obstruct the rear camera.

You can easily remove the pole mount or set it so that it is on the right (from the back view) of the device; push the quick-release connector latch to remove the pole mount, and if required, connect it on so it sits on the right side.

The pole mount is compact, so that when not attached to the plate on the device, it fits into a 10 cm (4") pipe for storage.

Using the shoulder sling

There are several ways to attach the shoulder sling to the T7 tablet:

- If you have a handstrap attached to the device (see [Attaching the handstrap, page 24](#)), clip the shoulder sling onto the handstrap buckles.
- If you do not have a handstrap attached to the device, attach the shoulder sling standalone connector straps to the handstrap slots on the device, and clip the shoulder sling to the connector straps.
- You can attach the shoulder sling to the handstrap slots/shoulder sling connector straps on either side of the device, according to your preference.
- You can attach the shoulder sling to the top or bottom handstrap slots, or use two shoulder slings and attach them crosswise to the device to create a harness.

Using the desktop hub

An optional accessory, the T7 tablet desktop hub connects to the device with a USB cable. It provides:

- One display port, which supports a single 2K monitor (up to 2560 × 1600 × 30 fps)
- One DVI-I and one HDMI port, which support dual monitors (up to 2048 × 1152 × 60 fps)
- One Gigabit Ethernet port for wired access at ultra-fast speeds
- Three USB 3.0 SuperSpeed ports for the latest peripherals
- One USB 3.0 powered port for fast device charging
- One Audio In/Out port for microphones, speakers, and earphones
- An integrated lock slot which accommodates security locks to safeguard equipment

To use external monitors, drivers are required; the T7 tablet downloads the drivers when it is first connected to the desktop hub (this may take a few minutes). Once the drivers are downloaded, the T7 tablet will use the drivers every time the desktop hub is connected.

Using the cameras

- [Taking photos and videos, page 47](#)
- [Changing camera settings, page 48](#)
- [Enable the Camera app to access your location to geo-tag photos, page 48](#)
- [Viewing photos and videos, page 48](#)

The T7 tablet is fitted with two cameras; a 2 MP camera on the front of the device, and an 8 MP camera with LED flash on the rear. Both cameras are accessible by the camera application.


NOTE – The device may be shipped with a protective film covering the rear camera and flash windows. Remove the film with a fingernail or the plastic stylus tip before first use to ensure proper focus and exposure of your photos and videos.

Taking photos and videos



By default, the built-in Camera app is ready to take photos, but you can switch easily between photo and video mode.

Before you use the camera, make sure you have removed the protective film on the camera and flash window.

To take a photo or record a video:

1. Tap  / **Camera**. By default, the front camera launches.
If you want to switch to the rear camera, tap the icon in the top left of the screen.
2. The main Camera or Video icon on the center right of the screen shows what mode the camera is in: Photo or Video. To switch from one mode to the other, tap the small Camera or Video icon above the main icon.
3. To take a picture or start recording video, tap the main icon when in the desired mode.

Changing camera settings

1. Tap  / **Camera** to launch the Camera app.
2. To access the camera settings, tap  in the top right corner of the screen.
3. To hide the Camera settings, tap elsewhere on the screen.

Enable the Camera app to access your location to geo-tag photos

1. In the Camera app settings, under **Related settings**, tap **Choose whether camera can use location info**.
2. Tap **Yes** to confirm you want to switch apps.
3. Make sure **Location** is selected, then slide the **Location service** switch to **On**.
4. Close the **Settings** app to return to the **Camera** app.

Viewing photos and videos

By default, your photos and videos are saved to the **Camera roll** on the T7 tablet .

There are several ways to look through and work with your photos and videos:

- **Camera app**: tap the thumbnail in the bottom right corner of the screen to open the **Photos app** and then do any of the following:
 - select **See all photos**
 - swipe right or left to scroll through other photos / videos in your collection.
- **Photos app**: open the **Photos app** from the Windows Start menu.
- **File Explorer or OneDrive app**: Go to your **Pictures library** and open your **Camera roll**.

Using the pre-installed apps

The T7 tablet comes with a range of useful pre-installed software.

- [Trimble Empower Hub](#)
- [Trimble GNSS Status utility](#)
- [Touch Control app](#)
- [Function Key Setting app](#)
- [Bundled Microsoft apps](#)
- [Getting more apps](#)

Trimble Empower Hub

Control and manage Trimble Empower modules from one convenient, easy-to-use application. For more information, refer to the module documentation.

TIP – To save battery power, turn off Empower modules if you will not be using them for a prolonged period.

Trimble GNSS Status utility

The Trimble GNSS Status utility enables you to view accuracy information for the currently selected GNSS source. For receivers that support these function, use the GNSS Status utility to:

- set up correction sources
- apply licensing options
- configure NMEA output

For more information, refer to the *Trimble GNSS Status Utility User Guide* on [trimble.com](https://www.trimble.com).

Touch Control app

Use the Touch Control app to switch between **Finger**, **Glove**, and **Stylus** mode. Launch the app from the taskbar.

If using in wet conditions, Trimble recommends that you always have a glass screen protector on the touchscreen (see [Installing a screen protector, page 26](#)) and use Finger mode.

Function Key Setting app

Use the Function Key Setting app to assign apps, web pages, or special key actions to the **F** keys and the directional arrow keys on the tablet computer. See [Using the programmable keys, page 33](#) for more information.

Bundled Microsoft apps

Here are some of the useful productivity applications that come bundled with your T7 tablet powered by the Windows 10 operating system.

- **OneNote.** Use the OneNote app on your device to take notes and store them in the cloud. For more information, see www.onenote.com.
- **Mail.** Mail automatically organizes your inbox. You can add multiple accounts and access them through this single point.
- **Calendar.** Use Calendar to manage your schedule.
- **People.** The People app brings all your contacts together in a single space. See each contact's email address, phone number, website, and other information at a glance.
- **Microsoft Edge.** Microsoft Edge gives you fast and fluid access to the internet. Open pages in Reading View, save them to your reading list, or take notes right on the page using inking. See *Get to know Microsoft Edge* on windows.com for details.
- **Camera.** The Camera app lets you take regular photos, photo bursts, or video. See [Using the cameras, page 47](#) for more information.
- **Photos.** Edit and organize your photos using the Photos app. Crop, enhance, and add effects to your images.
- **News.** News brings you the latest breaking stories as well as more in-depth coverage. You can customize the coverage to add more local information or highlight the topics you choose.
- **Weather.** The Weather app offers hourly, daily, and 10-day forecasts as well as historical information and annual weather trends.

Getting more apps

You can install more apps and programs from the Windows Store, websites, or a CD or DVD. To learn more see [How to install programs on Windows 10](#) on <https://support.microsoft.com>.

To find applications for the T7 tablet, go to Microsoft Store on www.microsoftstore.com.

Troubleshooting

This section contains answers to some common troubleshooting questions. If you encounter problems when using the T7 tablet, try the following troubleshooting tips to detect and solve the problem. If problems persist, contact your local distributor for support.

Further assistance and support with the Windows 10 operating system

For comprehensive online support, how-to guides, troubleshooting articles and related downloads for the Windows 10 operating system, go to the online Microsoft support pages for the Windows 10 operating system.

- [Performance issues, page 51](#)
- [Empower module issues, page 52](#)
- [Wireless connectivity issues, page 52](#)
- [Power and battery issues, page 53](#)
- [Restarting or resetting the operating system, page 54](#)
- [Operating system and software updates, page 55](#)
- [Repairing your device, page 56](#)

Performance issues

Device is running slowly

- Operating system updates may be installing.
Windows 10 may have automatically downloaded software or operating system updates, and is installing these in the background. While these updates are being installed, system performance may be reduced, or wireless connectivity speed may appear to be slower than normal.
- You may have too many background applications running.

Some programs start automatically and run in the background. You can disable these programs at startup to improve Windows startup time and overall system performance.

- You may have malware or a virus.

A virus or other malicious software could cause your device to run slowly. Check whether your device has a virus by using Windows Defender, which is included with Windows 10, or refer to the documentation for your third-party antivirus software.

- Check your wireless network speed.

If the apps you are using are connecting to the internet, a poor network connection may be causing them to run slowly. For detailed information on checking your network, see [Wi-Fi speed is slow, page 52](#).

- Check for low disk space.

You may be able to improve performance if you free up some disk space on your device. Disk Cleanup can delete temporary and system files, empty the Recycle bin, and remove apps and data that you no longer need.

- Your device may have overheated.

If you are using your device in a hot environment and/or are using a processor or memory-intensive, your device may have become too hot. Move your device to a cooler spot, wait five minutes, and see if it runs faster.

Empower module issues

My field software doesn't recognize my Empower module

- Check module contacts and attachment

It is possible the contacts between the module and the device are dirty, or that the module is not attached correctly. Ensure that the module contacts are clean and that the screws are tightened correctly.

- Your field software is not configured to communicate with the Empower module

Check that your field software supports the Empower module directly and that the field software is configured to talk to the Empower module directly or through the correct COM port.

Refer to the Trimble Empower modules documentation for more information.

Wireless connectivity issues


Wi-Fi speed is slow

- Your network is running slow for all devices.

You should first check to see whether your network is slow on another device. Can you connect to your wireless network and browse the web at normal speeds from another device? Try running a Network Speed Test to ensure your internet connection is functioning normally.

- Your Wi-Fi signal is weak.

Look at the Wireless network icon in the taskbar.

This icon  shows your current signal strength. If the icon is partially dimmed, move your device closer to your wireless router to see if the signal improves. If your router is broadcasting on both a 2.4 GHz and 5 GHz frequency, try connecting to a different frequency. In general, a network operating on the 5 GHz frequency will be faster and less susceptible to interference, but will have a shorter range than a 2.4 GHz network.

Power and battery issues

Battery will not charge

- The battery is overheated, or too cold.

The battery will charge between 0 °C and +40 °C (+32 °F and +104 °F). If you have been using or storing the battery and/or device in a particularly hot or cold environment, the battery may be outside the safe charging temperature range. Sensors in the battery will prevent the battery from charging until its temperature returns to a normal level.

- The battery is not installed correctly.

If the battery is not installed correctly in the device or the battery charger, it may not have a proper connection and will not charge.

- The battery terminals are dirty or corroded.

If the terminals of the battery are dirty or corroded, it may not have a proper connection and will not charge.

Device will not start up

- The batteries do not have enough charge to power the device:

Press and hold the charge indicator button on each of the batteries. At least one charge LED must be lit up to indicate that a battery has enough power for the device to start on battery power. If no LEDs light up on a battery, attach the device to an external power source, or swap the batteries for charged batteries, then try again.

- The batteries are not correctly installed.

The device may not be receiving power from the batteries if they are not installed properly. Remove both the batteries, then replace them correctly.

Device suddenly turned off during use

- The device may have run out of power and gone into critical suspend mode.

If your battery charge level gets too low, the device will automatically go into a hibernate mode to prevent loss of data. Check the battery level by pressing and holding the battery level button on each of the batteries. If the battery charge is too low, connect the device to external power, or swap the batteries for a charged batteries.

If you regularly run out of battery power while in the field, consider carrying spare batteries with you. The device supports hot-swapping of the batteries. Swap one battery at a time; you must always have one battery with sufficient charge in the device while you remove a battery and replace it with another. If you remove both batteries, the device shuts down.

Restarting or resetting the operating system

If your device becomes unresponsive, and the troubleshooting guide does not resolve the problem, you need to restart or reset your device.

For detailed instructions on the recovery options in Windows 10, refer to the Microsoft support pages on Windows 10 recovery options at www.support.microsoft.com.

Restarting your (unresponsive) device

If your device is no longer responding to touchscreen or keypad input, you may need to force it to restart by removing power from the system.

CAUTION – Restarting the system by holding down the Power key removes power to the CPU. Any unsaved files and settings will be lost.


To force your device to restart:

1. Press and hold the Power key until the device shuts down (~15 seconds).
2. Restart your device by pressing the Power key.

Resetting your device

If restarting your device does not resolve the issue that you are seeing, resetting it might help. Resetting lets you choose to keep your files or remove them, and then reinstalls the operating system.

To reset your device:


1. Tap  / **Settings** / **Update & security** / **Recovery**.
2. Select **Get started** then follow the onscreen instructions to reset your device.
3. At the reset menu, select one of the following:

- **Keep my files.**
 - Reinstalls Windows 10 and keeps your personal files.
 - Removes apps and drivers you installed.
 - Removes changes you made to settings.
 - Removes any apps your dealer or distributor installed.
- **Remove everything.**
 - Reinstalls Windows 10 and removes all your personal files.
 - Removes apps and drivers you installed.
 - Removes changes you made to settings.
 - If you're planning to donate, recycle, or sell your device, use this option and choose to fully clean the drive. This might take an hour or two, but it makes it harder for other people to recover files you have removed.

Resetting your device when the operating system is unresponsive

If you want to restore your device but cannot operate the touchscreen or the operating system is not responding to normal input, you may need to reset the device from the Boot Menu.

To reset from the Boot Menu:

1. Connect an external USB keypad to the device.
2. Press the Windows logo key  to get to the sign-in screen, then hold the **Shift** key down and select **Power / Restart** in the lower-right corner of the screen.
3. When the device restarts, tap **Troubleshoot / Reset this PC**.

If you cannot get to the sign-in screen, use a recovery drive or installation media to reset your device.

Operating system and software updates

Periodically, operating system and software application updates will be available for your device.

Windows 10 updates

The Windows 10 operating system periodically checks for updates so you don't have to. When an update is available, it is automatically downloaded and installed—keeping your device up-to-date with the latest features.

Installing the latest updates can help fix common issues, but you must be online to download the updates. If you are having trouble connecting and downloading updates because your wireless network is too slow, you can try using a wired network via the [Desktop Hub accessory](#).

Once online, to check for and install the latest updates manually, go to **Settings / Update & security / Windows Update**, and select **Check for updates**. If **Windows Update** says your device is up to date, you have all the updates that are currently available.

Trimble recommends that you keep the Windows operating system updated. This reduces your vulnerability to cyber attacks, and helps to improve the Windows operating system. You can configure the settings to prevent downloads and restarts in the field; go to **Settings / Update & Security / Windows Update / Update Settings**.

For more information about Windows updates, refer to the official *Windows Update: FAQ* on www.microsoft.com.

Software downloads and updates

The latest versions of software including drivers, firmware updates, and software utilities, are available on the [technical support pages](#) on trimble.com.

Repairing your device

Before you send your T7 tablet for repair, check the troubleshooting guide in this document. If you can't solve the problem with troubleshooting, contact your local Trimble dealer for further support.

Repair of this product should only be performed by an authorized service provider. Any attempt to disassemble this product by a non-authorized service provider will void the warranty.

For more information, contact your local Trimble dealer.

