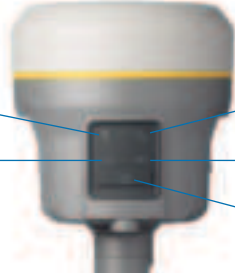
QUICK START GUIDE

Trimble R980

GNSS SYSTEM



CAUTION – Before operating this product, read the safety warnings and information. Go to receiverhelp.trimble.com/r980-gnss.

Trimble

Charge the Lithium-Ion battery

The rechargeable Lithium-ion battery is supplied partially charged. Before using the battery for the first time, charge it completely using the dual slot battery charger and country-specific power supply and power cord.

The battery has built-in charge indicator LEDs. Push the button on the battery to check the battery charge status.

Charging takes approximately 3 hours at room temperature. If two batteries are charging in the dual battery charger, the batteries will be charged simultaneously.

CAUTION – Before operating the dual slot battery charger, review the safety notes and operating instructions in the Trimble Dual Slot Battery Charger (P/N 109000) User Guide.

Insert the battery

Open the battery door by pushing down on the battery door latch and allowing the door to spring open.

Insert the battery with the metal contacts facing up and to the rear of the battery bay. Push the battery until the battery bail engages.

To remove the battery, slide the battery bail to the left until the battery is released.

Power on the receiver

Power on the receiver by pressing and releasing the power button on the front panel. All four LEDs light up, remain lit for 3 seconds and then turn off. The power LED then immediately lights up again.

To turn off the receiver, hold the power button for 2 seconds and then release it. When holding down the power button, the battery LED remains lit, the satellite LED lights up constantly and then turns off after 2 seconds. After releasing the power button, the battery LED stays lit for about 5 seconds and then all LEDs turn off.

NOTE — See the online receiver help guide for full LED blink pattern definitions. Go to receiverhelp.trimble.com/r980-gnss.

Activate warranties, install options, install radio frequencies, and update firmware

1. Install Trimble® Installation Manager on your PC or Trimble data collector. Go to install.trimble.com
2. Connect the receiver to your computer using a USB (e.g. P/N 80751) or serial cable (e.g. P/N 59044, 59046).
3. Start Trimble Installation Manager.
4. Select the **Receiver** tab and click **Connect**.
5. Select **COMx Trimble USB** from the list of available ports and click **OK.**

Connect the UHF radio antenna

Connect the UHF antenna (P/N 129988) or external UHF antenna cable (P/N 130626-05) to the RP-SMA connector on the receiver. Do not overtighten.

Install the SIM card (optional)

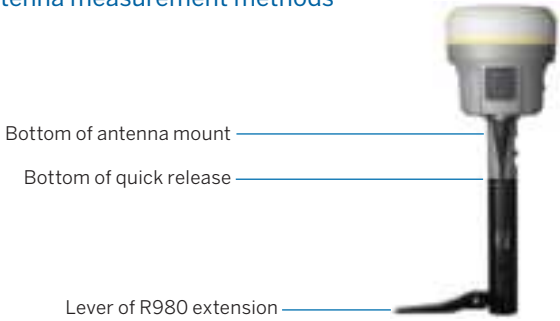
Insert the SIM card with the contacts facing upward, as indicated by the SIM card icon next to the SIM card slot.

To eject the SIM card, slightly push it in to trigger the spring-loaded release mechanism.

Attach the Quick Release adapter

1. Push down the spring-loaded button of the quick release adapter.
2. Align the white dots on the bottom of the receiver and the quick release adapter.
3. Slide in the quick release adapter and then release the button.

Antenna measurement methods



Connect to the receiver Web Interface

1. Power on the receiver.
2. Find the receiver SSID under the available Wi-Fi networks on your computer or smart device. The default SSID is **Trimble GNSS xxxx**, where **xxxx** represents the last four digits of the receiver serial number.
3. Select the receiver SSID and connect to the Wi-Fi access point.

   The default network password is **abcdeabcde**.
4. On your computer or smart device:

   a. Open a web browser and enter the IP address: **http://192.168.142.1**

   b. Log into the web interface. The default login credentials are:

   - User name: **admin**
   - Password: **password**
5. The first time you connect to the web interface, you are prompted to change the default login credentials.

Regulatory information

For full legal and regulatory information, go to https://receiverhelp.trimble.com/r980-gnss.

USA

FCC Compliance Statement

Model Numbers: R980

FCC Class B - Notice to Users. This device complies with part 15 of the FCC rules.

RESPONSIBLE PARTY:
Trimble Inc.
10368 Westmoor Drive
Westminster CO 80021
USA.

trimble.com/Corporate/Contacts.aspx

This device complies with Part 15 of the FCC Rules. 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. Changes or modifications made to this equipment not expressly approved by Trimble Inc may void the FCC authorization to operate this equipment.

FCC Certified Modular Transceiver

The Thales PLS63-W (P/N 124213), Singular-Modular Transceiver (LTE) was tested and certified per FCC Part 22, 24, 27, (FCC ID: QIPPLS63-W) with an internal antenna not accessible by the user.

The Texas Instruments WL1837MODGIMOC (P/N 103488), Singular-Modular Transceiver (Wi-Fi/BT) was tested and certified per FCC Part 15C (FCC ID: Z64-WL18DBMOD) with an internal antenna not accessible by the user.

The TR400900 (P/N 123130), Singular-Modular Transceiver (410 MHz to 470 MHz / 902 MHz - 928 MHz) was tested and certified per FCC Part 15.247 and Part 90 (FCC ID: S9E123130) for use with the antenna listed below:

- A monopole antenna with peak gain of 1.85 dBi (410 MHz to 470 MHz) and 3.28 dBi (902 MHz to 928 MHz) and RP-SMA connector (P/N 129988).
- A monopole antenna (P/N 24253-xx) with peak gain of 5.0 dBi (410 MHz to 470 MHz / 902 MHz to 928 MHz) and 5 m RG58 cable with RP-SMA connector (P/N 130626-05)

Canada

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- L'appareil ne doit pas produire de brouillage.
- L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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 chosen so that the equivalent isotropically radiated power (EIRP) is not more than that required 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 (PIRE) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

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 apparatus complies with Canadian RSS-GEN, RSS-102, RSS-247, RSS-119, RSS-130/132/133/139/199.

Cet appareil est conforme à la norme CNR-GEN, CNR-102, CNR-247, CNR-119, CNR-130/132/ 133/139 et CNR-199 du Canada.

United Kingdom

Hereby, Trimble Inc., declares that the R980 GNSS receiver complies with the following UK legislations:

- S.I. 2016 No. 1101, Low Voltage, RF Exposure
- S.I. 2016 No. 1091, EMI/EMC
- S.I. 2017 No. 1206, Radio Equipment

Australia and New Zealand

This product conforms with the regulatory requirements of the Australian Communications and Media Authority (ACMA) Radiocommunications Act.

Europe

Hereby, Trimble Inc., declares that the R980 GNSS receiver complies with the following directives:

- RED 2014/53/EU
- RoHS Directive 2011/65/EU
- WEEE Directive 2012/19/EU

CE marking

The products covered by this guide may be operated in all EU member countries (BE, BG, CZ, DK, DE, EE, IE, EL, ES, FR, HR, IT, CY, LV, LT, LU, HU, MT, NL, AT, PL, PT, RO, SI, SK, FI, SE), Norway and Switzerland. Product has been tested and found to comply with the requirements for a Radio Equipment device pursuant to European Council Directive 2014/53/EU on Radio Equipment, thereby satisfying the requirements for CE Marking and sale within the European Economic Area EEA). Contains a Bluetooth radio module. These requirements are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential or commercial environmen.

Recycling

For product recycling instructions and more information, go to www.trimble.com/en/our-commitment/responsible-business/product-compliance/environmental-compliance.

Made for iPhone | iPad

Use of the Made for Apple badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

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