

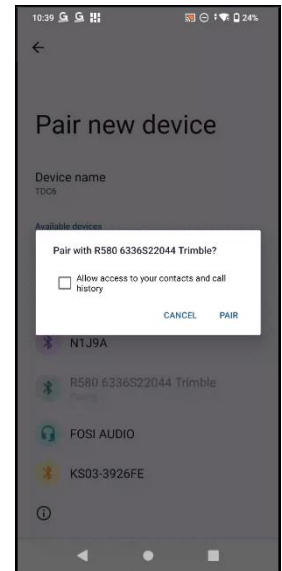
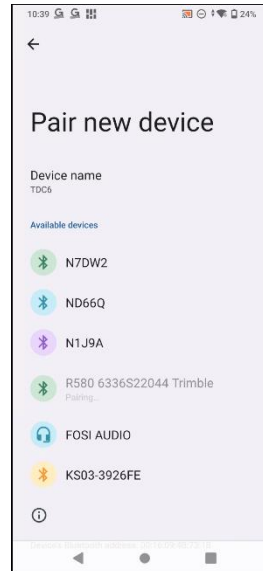
## Configure Trimble R580 in Mobile Manager on Android for FDOT RTN realtime (10/24)

### Download App

- Connect your handheld to an internet source using the Wi-Fi settings in the settings menu
- Go to Play store
- Install the Trimble Mobile Manager (TMM) App

### Connecting via Bluetooth to Trimble R580 GNSS receiver

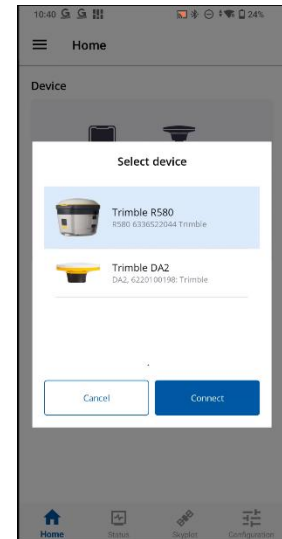
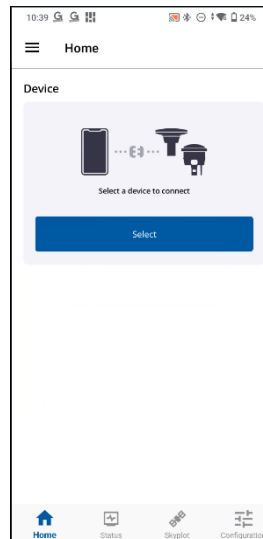
- Power up the Trimble R580
- Go into the mobile device Bluetooth settings and make sure Bluetooth is On
- Choose Pair new device
- The Trimble R580 should show in the under “Available devices” along with the serial number. Click on it to Pair, then click on Pair to finish the process.
- Once completed the R580 will show up under Connected or Previously Connected devices



### Configure Trimble Mobile Manger (TMM)

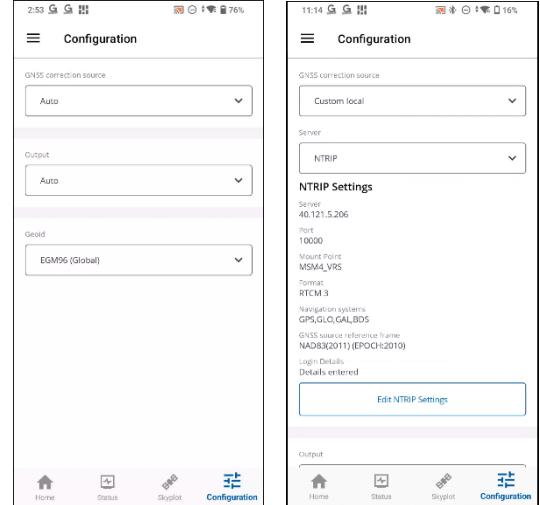
#### Connect to Trimble R580

- Run TMM
- On Home Screen, choose **Select**
- Choose your Trimble R580 to highlight it, then click on Connect
- Once connected the application will show battery life, number of satellites, horizontal & vertical accuracy, and real-time accuracy



Configuring real-time and output

- The configuration menu is in the bottom righthand corner of the application screen
- **GNSS Correction Source:** There are 2 options, **Auto or Custom local**
  - Use AUTO for SBAS, RTX satellite or RTX Internet
  - Use Custom local when inputting your own base station or a local VRS
  - Choose **Custom Local** to setup an FDOT RTN
  - Server: NTRIP
  - Select **Edit NTRIP Settings**
  - Create an [FDOT account](#)
  - **Server Settings:** 40.121.5.206
  - **Port:** 10000
  - **Mount Point:** There are several to choose. Pick the one that best suits you. MSM4\_IMAX
  - **Login Details:** create an
    - **Username:**
    - **Password:**
  - **GNSS source reference frame:** NAD83 (2011) (Epoch 2010)
  - Choose **Save and Close**



Note\* real time correction may require an internet connection/cell signal) If you are not connected to an internet source, select Auto and your unit should revert to SBAS or RTX Satellite (if purchased).

Output

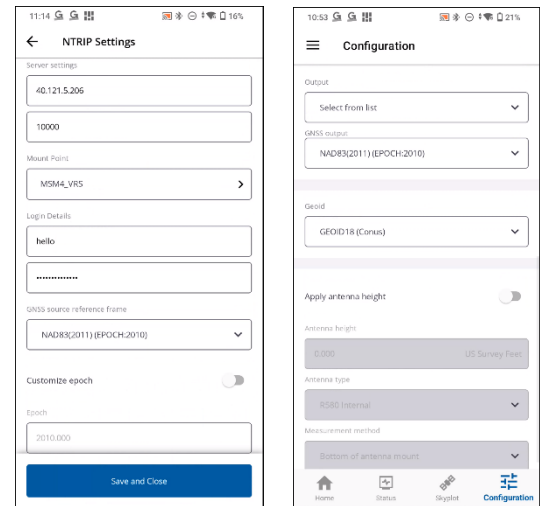
- Options are **Auto or Select from list.**
- Choose **Select from list**

GNSS Output

- Set it to **NAD83 (2011) (EPOCH 2010)**

Geoid

- Set the Geoid to **GEOID18 (Conus)**

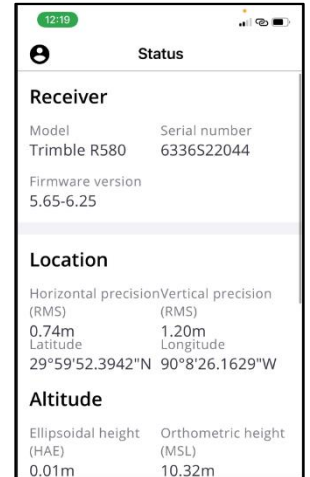


Apply Antenna Height

- Only turn this on if you are using apps other than Trimble TerraFlex, Esri Field Maps, or ones that don't have the option for you to enter an antenna height.
- Setup units and antenna height as needed.

## Test the R580 and real-time corrections in Trimble Mobile Manager

- Take the Trimble 580 outside in an open sky location
- Run the Trimble Mobile Manager app.
  - On the TMM home screen ensure that your Trimble R580 is connected
  - Verify that you are tracking satellites.
    - You will need at least 4 satellites to display a position.
    - Note, some real-time corrections may require access to the internet.
- Choose the **Status icon** in the bottom middle of the application screen
  - **Receiver**
    - This will show you Model, Serial Number and Firmware version
  - **Location**
    - This will display horizontal & vertical accuracies along with Latitude/Longitude Coordinates
      - Precisions will depend upon the Trimble Receiver and Accuracy option that you have
      - Precisions will depend on # of satellites, dop values, antenna field of view, etc.
  - **Altitude**
    - This will display HAE and MSL heights depending on your Geoid Model settings configured previously
  - **Correction Status**
    - This will display Position Status, GNSS Correction Status, Geoid model in use, and GNSS Output Reference frame.
  - **Satellites**
    - This displays the GNSS constellations your are tracking and ones that your GNSS receiver is currently using



**Satellites**

	In-use	Tracked:
Total	20	22
GPS	7	7
GLONASS	3	3
Galileo	5	5
BeiDou	5	5
Trimble RTX	0	1
SBAS	0	1
QZSS	0	0
IRNSS	0	0

**Details** >

## **Normal Receiver – 3<sup>rd</sup> party app workflow once configured**

- Power on the Trimble R580 and the Mobile Device
- Make sure the R580 connects to Bluetooth
- You should start all projects in the most wide-open area in your vicinity (no or limited overhead obstructions). This will ensure that your GPS unit can achieve its best accuracy.
- Run TMM and make sure the GPS tracks satellites and receives corrections
- Leave TMM running, minimize, and run the 3<sup>rd</sup> party app
- Collect data

## **Normal Receiver – esri Field Maps workflow once configured**

- Power on the Trimble R580 and the Mobile Device
- You should start all projects in the most wide-open area in your vicinity (no or limited overhead obstructions). This will ensure that your GPS unit can achieve its best accuracy.
- Run esri Field Maps
- Collect data

If you have questions please feel free to reach out to NEI at our Lafayette headquarters at 800-949-1446.