SXblue
QUICKSTART

WWW.SXBLUEGPS.COM

INDEX

START-UP PROCEDURE

GETTING STARTED WITH

MANUALS AND DOWNLOADS

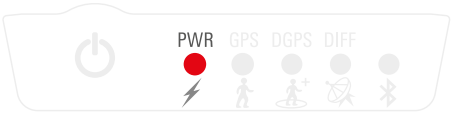
In our download section.

BLUETOOTH PAIRING CODE

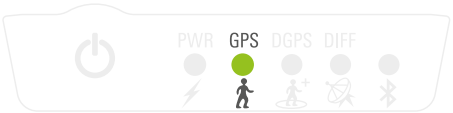
12345678

LED INDICATOR DEFINITIONS

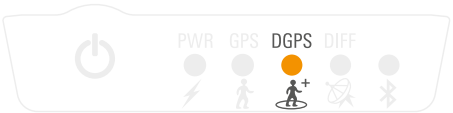
Front Panel



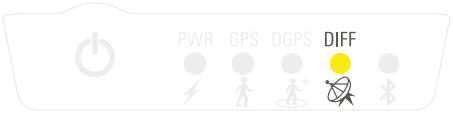
Power – when the receiver is powered, this LED will illuminate.



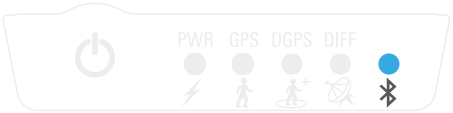
GPS Lock – once the receiver achieves a solid GPS lock, this LED will remain illuminated.



DGPS Position – this LED will illuminate when the receiver has achieved a differential position and the computed solution is a 3D fix.



Differential Lock – this indicator will illuminate continuously when the receiver has achieved a solid SBAS or Atlas signal, or when it is successfully receiving externally input RTCM corrections.



Bluetooth – this LED will illuminate when there is a Bluetooth connection between the receiver and a Bluetooth compatible device.

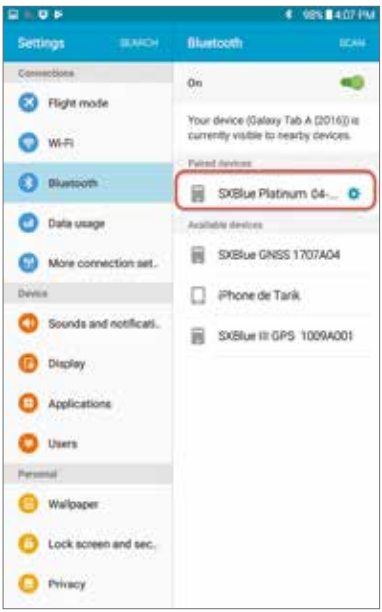
1. **Turn on** the SXblue receiver by pressing the power button.

   Before running a location app, pair the SXblue receiver with your Android device using Bluetooth.

2. To do this, go to the **Setting** icon on the Android device then select the **Bluetooth tab**. The Bluetooth switch must be in the **ON** position to discover any Bluetooth devices.

3. After a few of seconds, you will see a device name (eg. SXBlue Platinum-XXXXXXXX) icon appear with the same serial number as your receiver. See **Available devices** in the illustration below.

4. **Tap on** the SXBlue Platinum-XXXXXXXX device to establish the connection. See Paired devices in the illustration below.



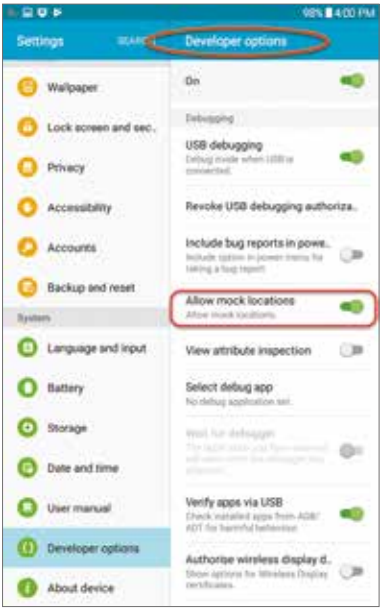
ANDROID

START-UP PROCEDURE

5. Once the device is connected, you may verify the **Developer options** under **Settings**.

   Make sure the **Allow mock locations** switch is turned **ON** in order to use the external GPS.

6. The SXblue receiver is now ready to use with your application!



FOR SXBLUE PLATINUM AND iSXBLUE SERIES

1. **Turn on the** SXblue receiver by pressing the power button.

   Before running a location app, pair the SXblue receiver with your iPad/iPhone using Bluetooth.

2. To do this, go to the **Setting** icon on the iPad/iPhone then select the **Bluetooth** tab. The iPad/iPhone Bluetooth switch must be in the **ON** position to discover any Bluetooth devices.

3. After a few seconds, you will see a **device name** (eg. SXBlue Platinum-XXXXXXX) icon appear with the same serial number as your receiver. See DEVICES in the illustration below.

4. **Tap on** the SXBlue Platinum-XXXXXXXX device to establish the connection: see MY DEVICES in the illustration below.

iOS

START-UP PROCEDURE

5. Once the device is connected, you may verify the manufacturer settings at **Settings > General > About > SXBlue GNSS Receiver**

6. The SXblue receiver is now ready to use!

Notes

1. No specific Bluetooth driver is required.
2. Once paring has been completed, Bluetooth address of SXblue receiver is stored. Pairing will be automatic for future usage of this GNSS device.
3. To use another GNSS receiver, you must unpair unused device.

iSXBLUE RTN - FREE APP FOR RTK MODE

To use RTK mode with your SXblue receiver, download our our app on the App Store.

RTK must be activated on your receiver.

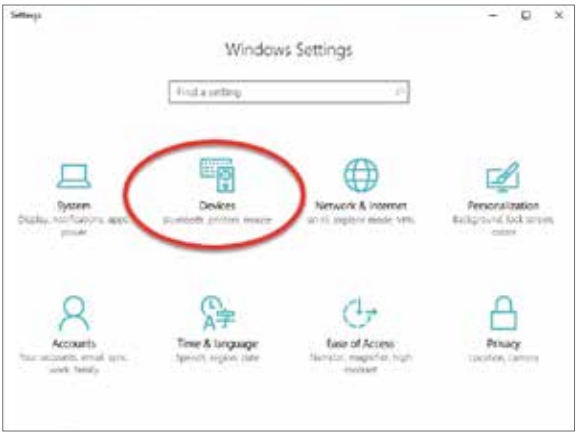
Download on the App Store

1. **Turn on** the SXblue receiver by pressing the power button.

   Before running a location app, pair the SXblue receiver with your Windows 10 computer using Bluetooth. There are two steps to perform this pairing: Discovering a Bluetooth device and assigning a communication port number to the discovered device. The data collection software will then call the assigned port number to receive data from the SXblue GNSS receiver.

2. Ensure the **Bluetooth** switch is turned **ON** under Bluetooth settings.

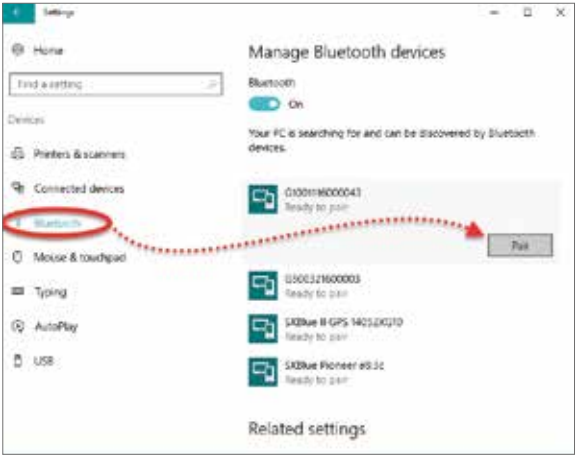
   From the Start menu in Windows 10, go to **Windows settings**, and select **Devices** (Bluetooth, …).



3. From the left panel, **select Bluetooth**.

   Select the SXblue GNSS receiver, and **tap Pair** to establish the connection.

   If a code is required for your SXblue receiver, enter 12345678.

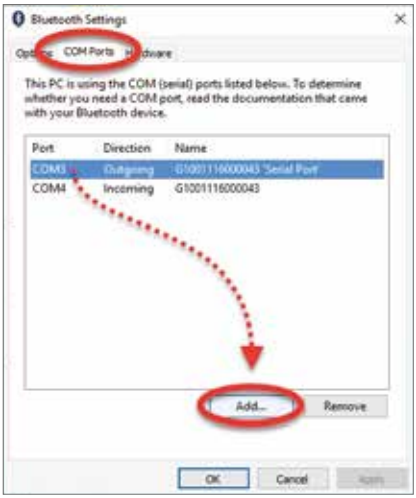


WINDOWS 10

START-UP PROCEDURE

4. On the bottom of the screen, press **More Bluetooth Options.**

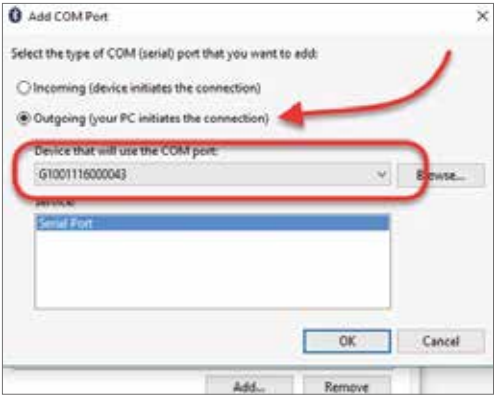
5. From the Bluetooth Settings screen, select the **COM Ports** tab, then the **COMxx Outgoing** under Direction, and press the **Add** button.



6. **Select Outgoing** (your PC initiates the connection).

   From the **scroll down list** (Device that will use the COM port), select the SXblue GNSS receiver and press **OK**.

   Finally, press **OK** again on the bottom of the Bluetooth Settings screen.



7. From your data collection software settings, you should use the port number that you selected in the previous step. Try to connect with Baud Rate 115200.

8. The SXblue GNSS receiver is now ready to use!

1. **Turn on** the SXblue receiver by pressing the power button.

   Before running a location app, pair the SXblue receiver with your Windows Mobile device using Bluetooth. There are two steps to perform this pairing: discovering a Bluetooth device and assigning a communication port number to the discovered device. The data collection software will then call the assigned port number to receive the data from the SXblue GNSS receiver.

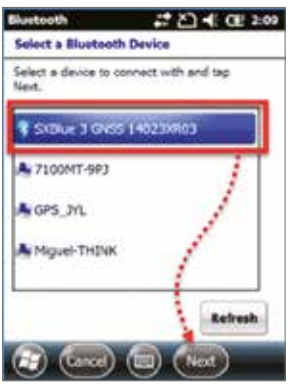
2. Ensure the **Bluetooth** switch is turned **ON** under Wireless Manager.

   From the Start menu, go to **Settings**, and tap the **Bluetooth** icon. Then tap **Add new device...** under Devices tab..

3. Once the SXblue GNSS receiver has been found, **select it** then **tap Next**.

   The driver will ask for a Passcode; at this point enter 12345678 and hit Next.

4. Select the **Advanced** button (bottom right) then check the **Serial Port** option and tap **Save**.
   The receiver will be added to the list of discovered devices.

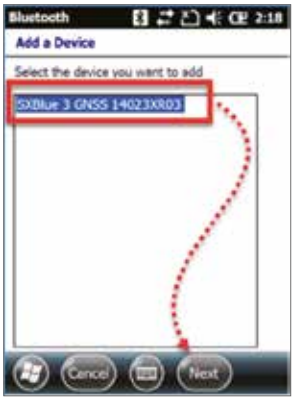


WINDOWS MOBILE

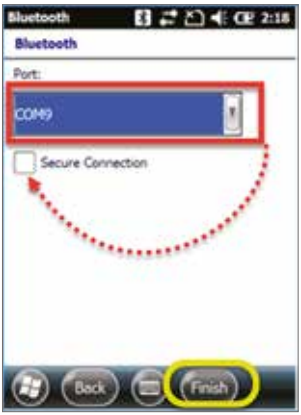
START-UP PROCEDURE

5. Select the **COM Ports tab** then tap **New Outgoing Port.**

6. **Select** the SXblue GNSS receiver in the list and tap **Next**.



7. **Unselect** the **Secure Connection** option and select a **COM Port** number (in this example: COM 9). It is recommended that you start with the highest COM port number available. Press the **Finish** button.



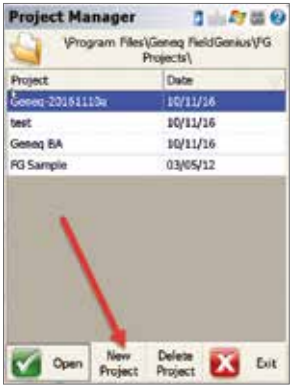
8. Your SXblue GNSS receiver will be shown in the list along with its assigned COM port number. This is the port number that should be selected in your data collection software settings. Press the **OK** button.

9. The SXblue GNSS receiver is now ready to use!

MicroSurvey FIELDGenius

1. **Turn on** the SXblue receiver by pressing the power button. **Bluetooth pairing** must be completed before performing the following instructions.

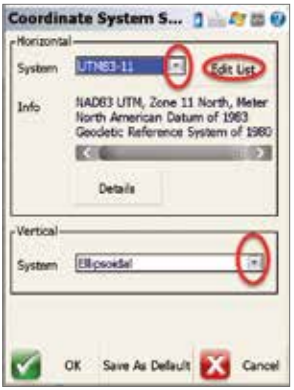
2. Launch the FieldGenius software. At the **Project Manager** screen, press **New Project** to create a project.

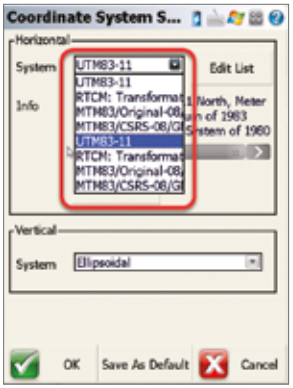


3. At the **New Project** screen, press **Project Settings** to set a coordinate system for the project.

4. At the Project Settings screen, press **Coordinate Systems** to select or create a coordinate system.

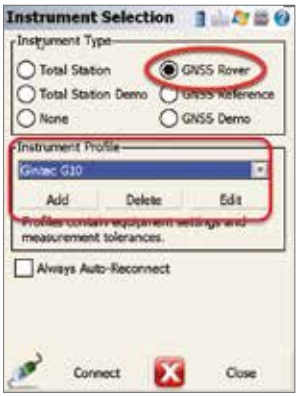
5. At the Coordinate System screen, use the scroll down list to **select** (Hz and V) system **or Edit List** to a add a new coordinate system.

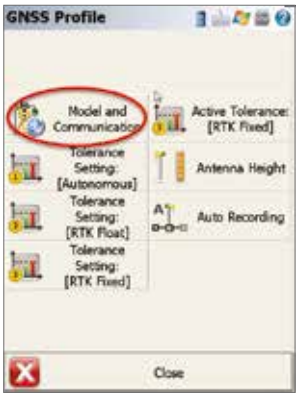




6. At the Coordinate System List screen, press **Add Predefined** to access the list of available Coordinate Systems.

7. At the **Instrument Selection** screen, select **Instrument Type** and **Profile**. For an existing profile (instrument), press **Connect** to establish communication between GNSS receiver and data collector. For a **new profile**, press **Add** to create and then **Edit** to set Model and Communication. Press **Connect** after profile completion.





8. At the **Link Configure** screen, select **Link Device** and **Data Format**. Press **Setup** to configure a connection for RTK correction.

9. At the **Mobile Settings** screen, under **Network Options**, set **APN** for internet access.

10. Under **Data Source**, select and configure GNSS network connection type (**Source Type**) and set related parameters. Once completed, Press OK.

11. On **Link Configure** page again, press **Connect** to start survey with your GNSS rover SXblue.

1. **Turn on** the SXblue receiver by pressing the power button. **Bluetooth pairing must be completed** before performing the following instructions. For details please refer to the appropriate Quick-Start.

2. After signing in to Collector, from the **Map Gallery**, select Action (iOS) or **Overflow** ⋮ (Android), then **Settings**.

3. In the **Location** section, select **Provider**. The GPS receiver list is displayed.

4. If your receiver **doesn't appear** in the list, select **Add Receiver** +, then select your receiver.

5. If you are mounting the gps receiver antenna to a pole, enter the **antenna height**. Then select **Done** (iOS) **or OK** (Android).

6. **Select** your GPS receiver.

7. Select **Settings** (iOS) **or Collector** (Android) to return to Settings.

   Create a location profile in Collector in order to define the coordinate system and, if required, datum transformations to apply when locations are received from your GPS receiver. It is recommended to create a location profile when you are using a correction service such as SBAS or RTK. The default coordinate system for the receiver is set to WGS 1984. If you are using SBAS (WAAS, EGNOS, MSAS, GAGAN) as your source of differential correction, make sure you choose ITRF 2008 as the coordinate system.

8. While in the **Settings** window, click on **Location Profile** and select **Add Profile**.

9. In the **Search** box, type the **name or ID** of your receiver's correction service's geographic coordinate system (**GCS**) to filter the results in the list, and then **select** the correction service's GCS.

10. If your map uses a projected coordinate system, select **Projected**.

11. In the **Search** box, type the **name or ID** of the map's **coordinate system** to filter the results in the list, then **select** the map's coordinate system.

12. If a datum transformation between the coordinate systems of your receiver's correction service and your map is not available, select **Continue** ›.

13. If a datum transformation between the coordinate systems of your receiver's correction service and your map is available, you are prompted to **specify the data collection area**. To zoom to your location on the map, select **My Location** (iOS) or **Use My Location** (Android). Once you have zoomed in to the data collection area, select **Continue** › and **select** the desired datum transformation from the list of available transformations. For Android users, Select **Done**.

14. Provide a name for the location profile and select **Save** (iOS) **or OK** (Android). The location profile is added to the Location Profiles list.

15. Select the new location profile from the **Location Profiles** list to set it as your current profile and select **Settings** (iOS) **or Collector** (Android) to return to Settings. For iOS user, tap **Done**.

If you need more details regarding connection of High-accuracy GPS with ESRI application, and the following subjects:

- High-accuracy Receivers documentation
- Connection of High-accuracy GPS
- Record GPS Metadata
- Project-Z tool from the ArcToolbox (GitHub) – ProjectZ

Please visit their website: doc.arcgis.com/en/collector
Create Maps › Advanced GPS