

X-PAD Ultimate FAQ Series

Connect to SGU2 (St George Utah Base) with DIP (point to point)

More FAQ's like this one are available here: [[X-PAD FAQ Series](#)]

Date: 25 September 2023

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Filename: FAQ_X-PAD_ConnectToSGU2withDIP_R001.docx

Method

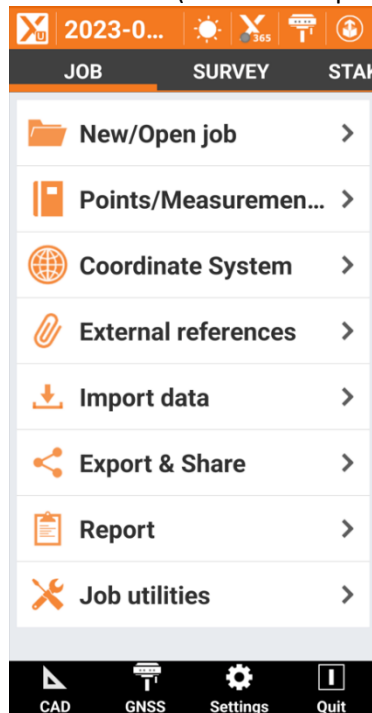
IP Address: **209.33.248.86**

Port (select one): **2105** RTCM3.3 MSM7

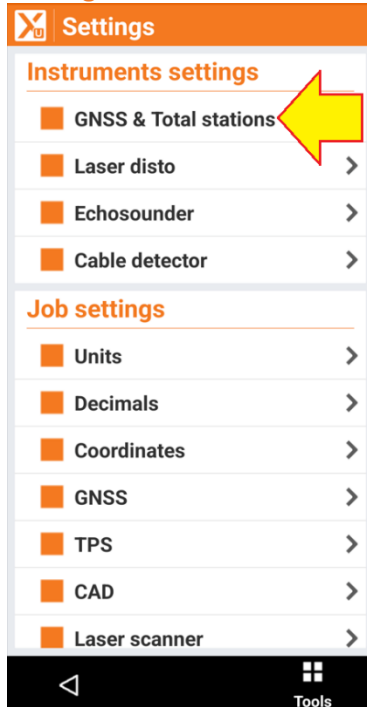
2107 sCMRx (NOT CMRX !) best for iG8, iG9, i80, X91+

Make sure your data collector (phone / tablet) has internet access.

From the **Main menu** (make a new project if none is selected):

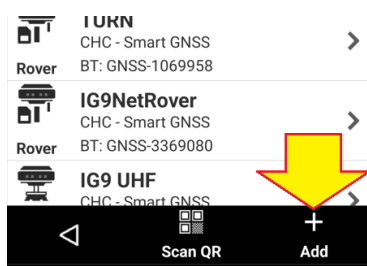


Click on **Settings**:

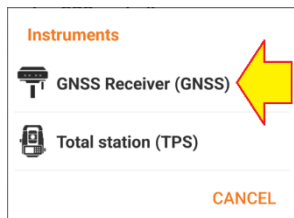


2

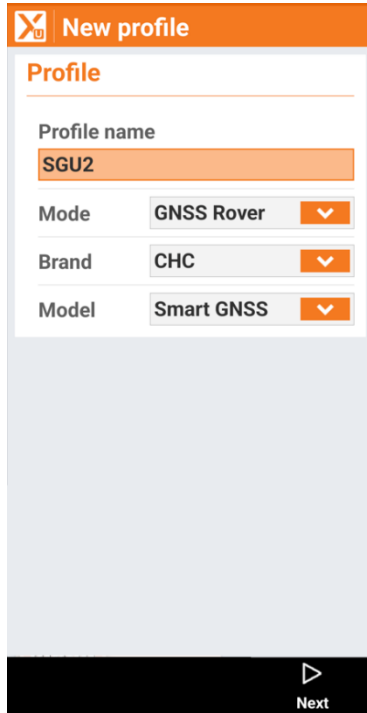
Click on **GNSS & Total stations**



Click on **+ Add** (lower right corner)



Click on **GNSS Receiver (GNSS)**



New profile

Profile

Profile name
SGU2

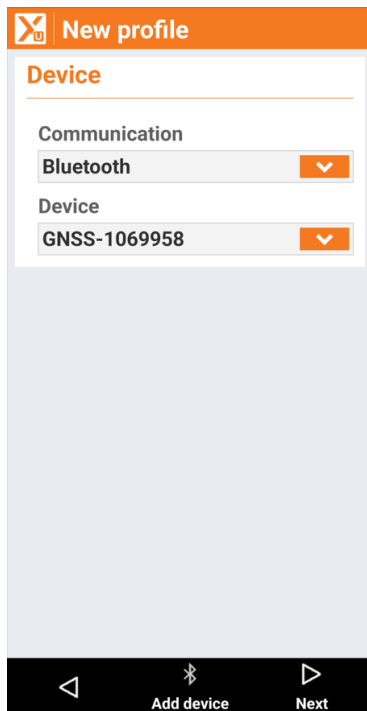
Mode GNSS Rover

Brand CHC

Model Smart GNSS

Next

Set the **Profile name = SGU2**, **Mode = GNSS Rover**, **Brand = CHC** (do in order from top to bottom)



New profile

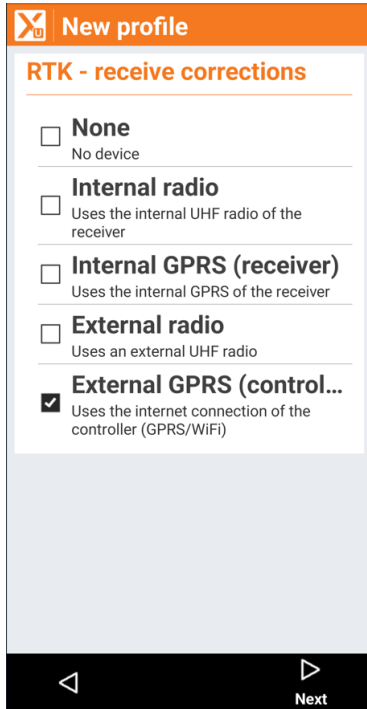
Device

Communication
Bluetooth

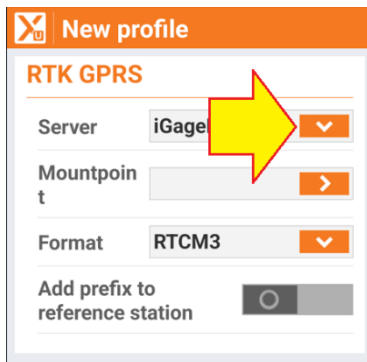
Device
GNSS-1069958

Add device Next

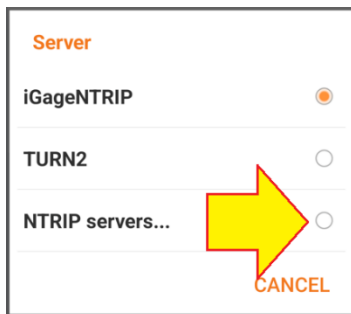
Choose **Communication = Bluetooth**, set the **Device = to your receiver's serial number**. If it is not in the list, use the **Add device** button to search, find and add it.



Choose **External GPRS (controller ...)**, then click **Next**.

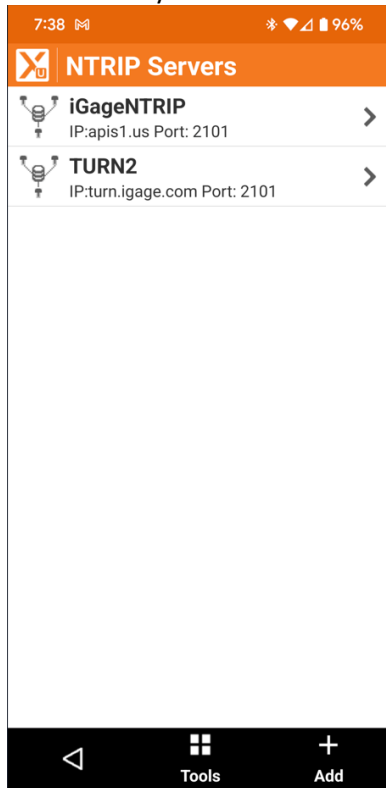


Click the **Server** down-arrow

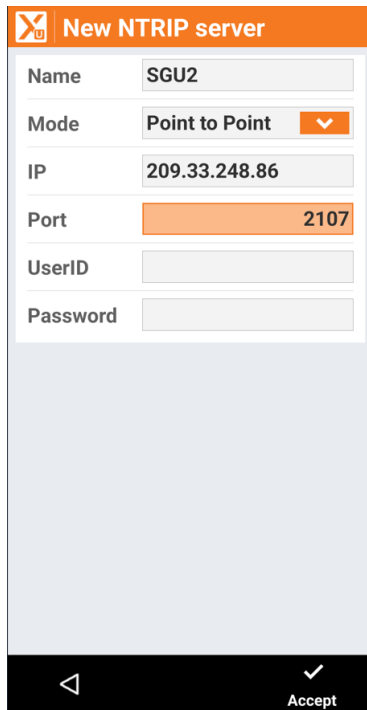


Click **NTRIP servers...**

If SGU2 is not already defined in the



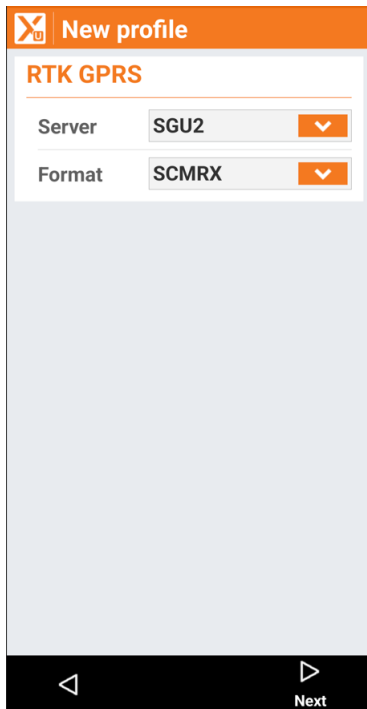
Click the **+ Add** button (lower right corner)



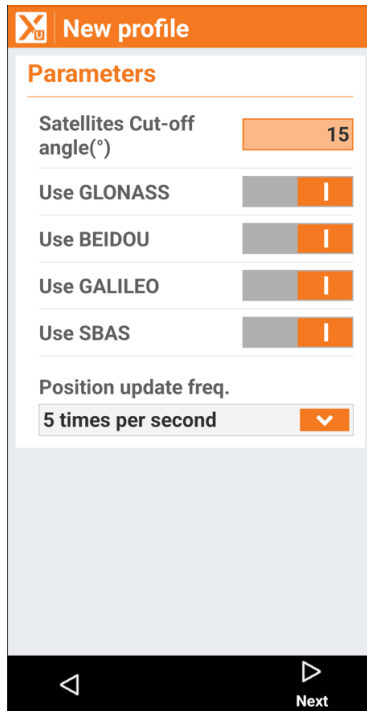
Enter **Name = SGU2**, **Mode = Point to Point** (which is AKA DIP), **IP = 209.33.248.86**. If you have an iG8, iG9, X91+ set the **Port** to **2107** (it will save 50% of data), for all other receivers set the **Port** to **2105**. Click **Accept**.



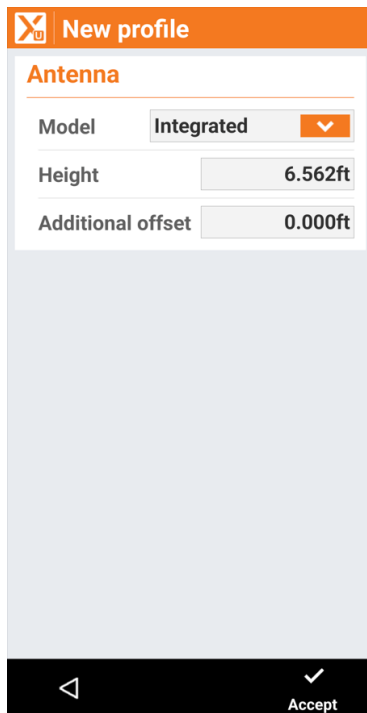
With the new **SGU2 Server** available, click on the **Back** arrow.



Select **Server** = **SGU2**, set the **Format** to **SCMRX** (actually this does not matter), click **Next**.



Set the **Cut off angle** to something reasonable (10-15 is fine), **Enable** (Check) all of the **Constellations**, set the **Position update freq** to **5 times per second**, click **Next**.

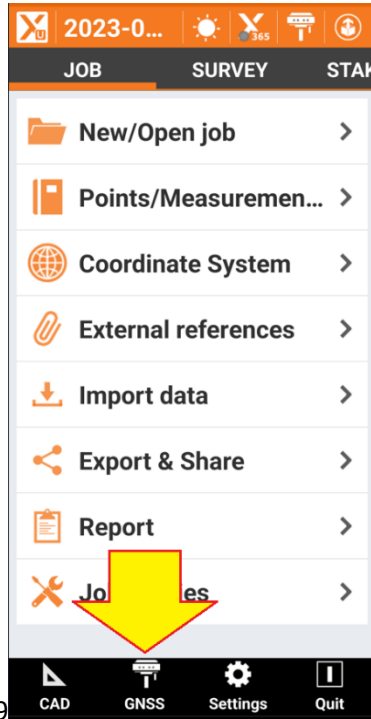


Enter the default **Height** (HI - Instrument Height / Pole Height), click **Accept**.



Click **YES** to setup the receiver.

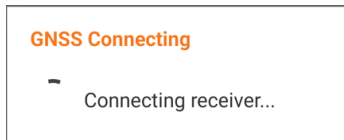
From the **Main menu**:



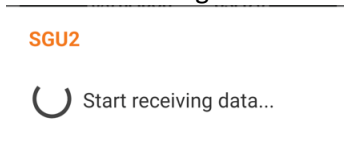
1.9

Click the **GNSS** button.

X-PAD will connect to the receiver:



X-PAD will start receiving data from the SGU2 server:



The data LED (iG8 shown)



should be blinking once per second. Typically, amber is FLOAT, green is FIXED.

If data does not start, insure that your data collector (tablet/phone) has internet access.