

# PGM EVK Quick Start Guide

Version 2  
2021-10-27

Follow the steps described below for a basic PGM EVK system setup. Refer to the [PGM EVK User Manual](#) for detailed setup instructions.

## 1. Download the Swift Console

The Swift Console is a Graphic User Interface (GUI) program providing visual representation of GNSS operation inside the PGM evaluation platform.

Download and install the latest Swift Console on your PC from: [swiftnav.com/latest/swift-console](https://swiftnav.com/latest/swift-console)

## 2. Connect the system

Connect provided a GNSS antenna (1) to the centre SMA connector and the two Wi-Fi antennas (2) to the outer SMA connectors. Use the provided power adapter (4) to supply 12 V power to the platform (3).



1 GNSS Antenna    2 Wi-Fi Antennas    3 PGM Platform    4 Power Adapter

Note: the GNSS antenna needs to be placed outdoors with a good sky view for a proper satellite tracking and reliable GNSS position output.

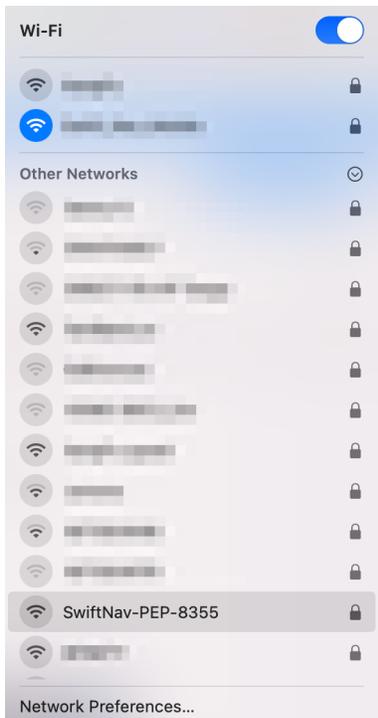
### 3. Power on the platform and connect to it's Wi-Fi network

Power on the platform by connecting the power adapter to the wall power outlet. Within approximately 3 minutes from power up, the platform will create a Wi-Fi network access point named SwiftNav-PEP-xxxx, where the last 4 digits of the network name are the last 4 digits of the serial number of the platform.

1. Open Wi-Fi network selection window and select **SwiftNav-PEP-xxxx**

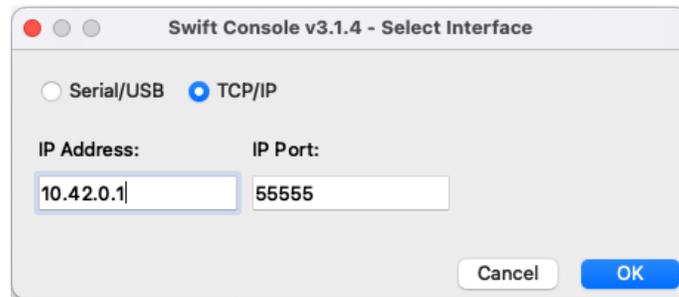
2. Enter password (swiftnav by default)

3. Network is connected



### 4. Start the Swift Console

Start the Swift Console program and select the TCP/IP option with IP Address **10.42.0.1** and IP Port **55555**. Click **OK** to start the connection.

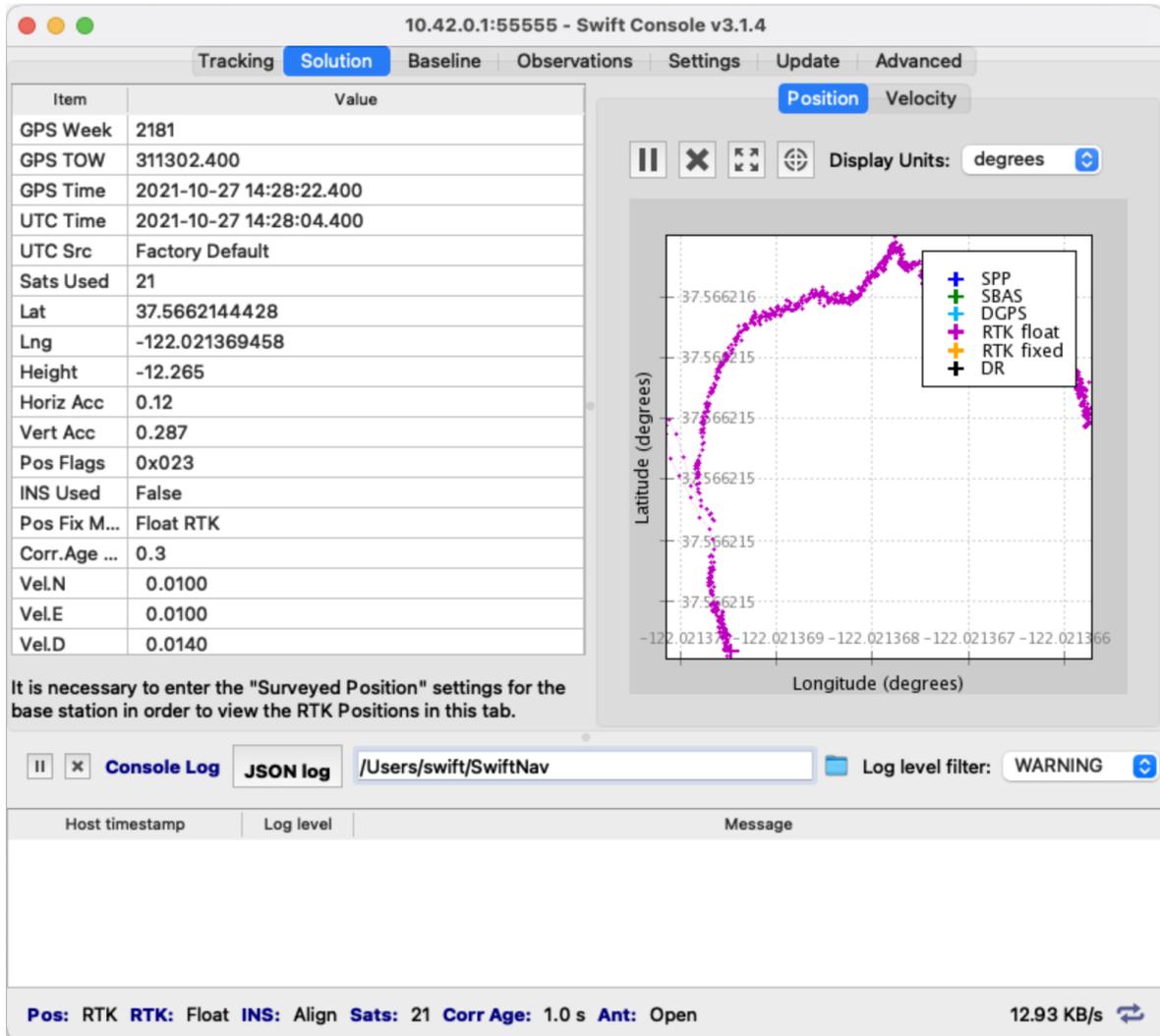


The console **Tracking** window will open and show the satellite signals being received.



**Note:** antenna status (Open / Short / OK) is not supported on the PGM EVP.

The **Solution** tab shows the coordinates (Latitude, Longitude and Height) of the antenna, along with other information.



The screenshot shows the 'Solution' tab in the Swift Console v3.1.4. The interface includes a table of GPS data, a position plot, and a console log.

Item	Value
GPS Week	2181
GPS TOW	311302.400
GPS Time	2021-10-27 14:28:22.400
UTC Time	2021-10-27 14:28:04.400
UTC Src	Factory Default
Sats Used	21
Lat	37.5662144428
Lng	-122.021369458
Height	-12.265
Horiz Acc	0.12
Vert Acc	0.287
Pos Flags	0x023
INS Used	False
Pos Fix M...	Float RTK
Corr.Age ...	0.3
Vel.N	0.0100
Vel.E	0.0100
Vel.D	0.0140

Position Plot: Latitude (degrees) vs Longitude (degrees). Legend: SPP (blue), SBAS (green), DGPS (cyan), RTK float (magenta), RTK fixed (orange), DR (black).

Console Log: /Users/swift/SwiftNav, Log level filter: WARNING

Status: Pos: RTK RTK: Float INS: Align Sats: 21 Corr Age: 1.0 s Ant: Open 12.93 KB/s