How to Set the GPS Preferences in ArcPad

Using ArcPad and the Trimble GeoExplorer XM/XH
These instructions are for a Geo XM, however they will work equally well with a Geo XH with only a few variations.

1. Turn on the Unit
   A. Push the green power button on the bottom right.
   B. Using a styles-not a pen as this will scratch the screen-tap the Start button on the top left of the screen, select ArcPad 7.1.1 by tapping on it once. It may take a few moments for the program to open.

2. Open Preferences
   A. Click on the black down arrow to the right of the button that has an image of a satellite on it.

3. Set GPS Preferences
   Select GPS Preferences from the drop-down menu.
   The GPS Preferences window will open with several tabs starting with GPS along the bottom for the different preference categories. The settings outlined in the following instructions are standard or average settings.
4. **The Setting Categories (Tabs)** (see screen shot on previous page)

a. **GPS**

   Protocol: Trimble GPsCorrect (or TSIP GPsCorrect)
   Port: COM3:TSIP Serial Port
   Baud: 9600
   Check: Automatically Activate
   Show GPS Activity in System Tray
   Automatically Pan View
   Uncheck: Log

   ![GPS Settings Screen](image1)

b. **Capture** (The Capture settings can be adjusted according to the level of accuracy desired and the speed at which you want to work.)

   Check: Enable Averaging

   Number of positions to average: Points: 10 (typical for point survey/trees)  Vertices: 5

   Streaming: Position Interval (how often readings are taken in seconds): 1 (typical)
   Distance Interval (how often readings are taken if you are mapping a line/trail in feet or meters): 3 ft US (ok if in meters)

   ![Capture Settings Screen](image2)
c. **Quality**

Select: No Warnings
De-select: Non-Compulsory Warnings
Compulsory Warnings

![Quality Settings](image)


d. **GPS Height**

Antenna Height: 3ft if you are not using one. 6ft if you are using an antenna.
1 or 3 in meters is ok.

Geoid Separation: 0ft or m

Check: Use Map Units for Height
Height Units: box will default to **Meter : m**
Uncheck: Use Height In Datum Transfer

![GPS Height Settings](image)
e. **Datum**

GPS Datum: leave at the default selection

f. **Alerts**

Uncheck all the boxes. This will turn off the auditory alerts and pop-ups associated with warnings.
g. **Location**

Last Known GPS Location: Do not need to change anything. Leave as is.
Check: Restore Location
DST Distance Alert: Leave blank as is.

![GPS Preferences](image)