

## **Cambium 450B6 External GPS Solution Persistent Inquiry Approval (PIA) - Geolocation General Description**

1. Cambium 450B6 6 GHz with External GPS module devices are outdoor fixed wireless devices which are Standard power Access point or a Fixed client. The geolocation data for Cambium 450B6 6 GHz External GPS devices shall be obtained from an External GPS puck. This designated External GPS puck is connected with each Cambium 450B6 6GHz device unit using the External GPS solution. The External GPS puck picks up GPS satellite radio frequencies, and calculates its location based on at least 4 satellites. Cambium 450B6 6 GHz devices will use GPS 3D-Fix mode to retrieve the geolocation information. This geolocation includes longitude, latitude, and height. The External GPS puck is an integrated SKYLAB SKM55U module with USB connection and internal antenna and using MediaTek MT333 GPS SOC.
2. Cambium 450B6 6 GHz External GPS puck will provide geolocation accuracy with a 95% confidence level.
3. Cambium 450B6 6 GHz External GPS solution provides daily confirmation and updates to the AFC every 24 hours and repeats AFC requests after each power cycle. This will be performed through AFC re-authorization. AFC authorization/re-authorization will only be performed after the GPS geolocation 3D-Fix mode is obtained for every Cambium 450B6 6 GHz outdoor device's power cycle procedure or AFC 24-hour daily confirmation re-authorization. Radio Frequency will Not be transmitted without AFC authorization and geolocation obtained from the Cambium 450B6 6 GHz outdoor device's External GPS parameters.