

**Cambium 450 2x2 External GPS Solution Persistent Inquiry Approval (PIA) -  
Geolocation General Description**

1. Cambium 450 2x2 6 GHz with onboard Quectel GPS module devices are outdoor fixed wireless devices which are configured as or a Standard Power Access point. The geolocation data for Cambium 450 2x2 6 GHz External GPS shall be obtained from an External GPS puck along with onboard chip. This designated External GPS puck is connected with each Cambium 450 2x2 6GHz device unit using this outdoor GPS solution. The External GPS puck picks up GPS satellite radio frequencies, and calculates its location based on at least 4 satellites. Cambium 450 2x2 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 outdoor Cirrocom GPS antenna with USB connection and internal Quectel chip GPS SOC.
2. Cambium 450 2x2 6 GHz outdoor GPS puck will provide geolocation accuracy with a 95%confidence level.
3. Cambium 450 2x2 6 GHz outdoor 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 450 2x2 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 450 2x2 6 GHz outdoor device's outdoor GPS parameters.