

Cambium XE3-4TN 6 GHz Access Point Persistent Inquiry Approval (PIA) - Geolocation General Description

1. Cambium XE3-4TN Access Point is an outdoor wireless device. Cambium XE3-4TN Access Point is a Standard power access point (6SD). The geolocation data for Cambium XE3-4TN shall be obtained from an internal GPS SOC. This designated internal GPS SOC is on for every Cambium XE3-4TN Access Point unit. The internal SOC will be connected to an external GPS antenna. The internal GPS SOC picks up satellite radio frequencies, and calculates its location based on triangulation between at least 4 satellites. Cambium XE3-4TN will use GPS 3D-Fix mode to retrieve the geolocation information. This geolocation includes altitude, latitude, and height.
2. Cambium XE3-4TN Access Point Internal GPS SOC and external GPS antenna will provide geolocation accuracy rate of more than 95%. This statistical test data to prove accuracy more than 95% is provided in the Cambium XE3-4TN Access Point Geolocation Justification Report document from Sporton Lab, Taiwan.
3. Cambium XE3-4TN AFC Daily (<24hours) conformation and AFC power cycle conformation will be performed through AFC re-authorization. AFC authorization/re-authorization will only be performed after the GPS geolocation is obtained for every Cambium XE3-4TN Access Point power cycle procedure or AFC daily conformation re-authorization. Radio Frequency will Not be transmitted without AFC permission and geolocation obtained from the Cambium XE3-4TN Access Point Internal GPS SOC.