

Persistent Inquiry Approval (PIA) – Geolocation General Description

This document provides overview of the geolocation system used in the identified RADWIN 2000 E product models.

General Overview

1. The RADWIN 2000 E product models: RADWIN 2000 E INT EI00, RADWIN 2000 E CON EC00 and RADWIN 2000 E CON EC10 are fixed outdoor radio devices.
2. The product uses the internally installed GNSS module Teseo-LIV3F to receive the GPS satellite signals and determine the location uncertainty with a 95% confidence level.
3. The product can be software configured to Standard Power Access Points and to Fixed Client and is installed on rooftops.
4. The product utilizes the Global Positioning System (GPS) satellite navigation system tracking the L1C/A signals at 1575.42 MHz.

Location uncertainty with a 95% confidence level

The location uncertainty with a 95% confidence level was determined by measurement performed by an accredited test lab in various test environments. The measured worst case GPS geolocation 3D-Fix was chosen to state the location uncertainty when communicating with the AFC system

Confirmation with the AFC System

The product performs confirmation with the AFC system at least every 24 hours and on every power up cycle. Power up cycle cases include product location change and power failure.

Fixed Client configuration confirmation with the AFC system is performed by in-band method via the Standard Power Access Point.