Looking to improve UAV deployment & operational efficiencies?

GLI-METRO(e)
GPS Smart Controller

Active L1/L2 Antenna with Pole Mount

World leading air defense program uses GPS signal inside UAV hangars to improve mission reliability, save time and cost on operational deployment.

The Problem

A world leading Air Force was seeking to improve mission reliability and operational UAV deployment efficiencies for UAVs in support of various reconnaissance, target and combat missions. This group required the GPS signals to be available inside the UAV hangar to perform final flight path planning and sensor information integration checks before flight control transfer.

Driven by efforts to meet the demands and challenges of their various field operation missions, they sought a safe indoor GPS L1 and L2 retransmission solution.

The Solution

In order to achieve their goals, they needed to bring the GPS signal live inside the UAV hangars. They sought out GPS Source and one of their world-wide value-added solution providers to help design a system to meet their mission critical objectives.

The system design included “Smart” GPS amplifiers to control effective radiated power (ERP) levels to meet the sensor information integration checks of various UAV types throughout the hangar. Regardless of the uncertain loss or gain in the receive antenna cable network, they automatically conditioned the signal and safely prevented changes in performance. Derived from high-performance systems for military applications, built-in operational features also supported mission critical objectives and prevented potential interferences.

The benefit of enabling a GPS signal inside the hangar at all times, allowed for rapid pre-flight check in preparation for UAV deployment and immediate remote access capabililties. When time was an essential factor in the proper execution of military operations, having these added capabilities meant the difference between mission success or failure.

GPS Source, Inc.

Take a few minutes to understand how GPS Source products can help decrease your production and testing costs, boost profitability and improve overall operational efficiency.

Suggested Equipment

- METRO L1/L2 GPS Amplifier/Signal Controller
- Ruggedized L1/L2 Active GPS Antenna with Pole Mount
- RF Coax Cabling

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