



AEROSPACE

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Date: Nov 14/2016

Valid Date: Nov 14/2017



CV580 ADS-B OUT Solution

ADS-B is an essential part of the planned NextGen airspace upgrade and will create better aircraft visibility at a lower overall cost than before. ADS-B will offer increased safety, efficiency and environmental awareness for pilots and air traffic controllers at a lower overall cost than the current radar system.

The FAA has published a rule under 14CFR91.225 which states that by January 1st 2020 all aircraft operating in US airspaces will be equipped with an ADS-B Out system compliant with 14CFR91.227. In Europe, the EU published Implementing Regulation (EU) No 1207/2011 as amended by 1018/2014 which states that by June 8 2020 aircraft are to be equipped with an ADS-B Out system compliant with CS ACNS.D.ADSB.

KFA is currently seeking a launch customer for the design and certification of the following ADS-B Out solution.

Package Overview:

The KFA ADS-B package includes a pair of ACSS NXT-700 Mode S ADS-B compliant transponders, along with a pair of NXG-900 WAAS GPS receivers, GPS/WAAS Antennas, and installation kit with installation supported by a Convair SB. This configuration will satisfy both the FAA and EASA mandates for Automatic Dependent Surveillance - Broadcast (ADS-B).

Model NXT-700 Transponder

The NXT-700 is a plug-and-play solution for the currently installed MST-67A transponder. Software upgrades to the NXTs are performed through on-board software loads, providing operators with significant cost savings and scheduling flexibility.



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The operator can utilize the existing tray, and only a few additional wires need to be added to connect for full DO-260B capability. This configuration is compatible with current retrofit Traffic Collision Avoidance System II, 7.1 (TCAS II) systems and will be able to use the existing mounting rack and connectors for a quick installation. The NXT-700 has the following features:

- Form-fit replacement for the Honeywell MST-67A
- Interfaces with TPU-67A TCAS II Processors (KFS-578A/PS-578A/PS-550 Control)
 - Or CD-674C control
 - Or CTA-81A/81D Control
 - Or RMS-555 Radio Management System
- Interfaces with Rockwell Collins TTR-921, TTR-2100 TCAS II Processors
- 2 Year Warranty

NXG-900 GPS Receiver

The NXG-900 is a GPS Solution designed exclusively for the NXT family of transponders to provide a rule compliant position source that meets the requirements of AC 20-138D and AC 20-165B and is certified for TSO-C145c, TSO-C154c and TSO-C157a.

The NXG-900 utilizes signals from Global Positioning System (GPS) satellite constellation and Satellite-Based Augmentation Systems (S-BAS) such as the USA Wide Area Augmentation System (WAAS) to provide aircraft information (position, velocity, track, ground track, etc.) for ADS-B Out via an ARINC 734A data bus. The NXG-900 has the following features:

- Rule Compliant Position Source
- 978 MHz UAT, ADS-B In providing Free Weather (FIS-B)
- Wi-Fi Interface Module to mobile applications (Android, IOS, Windows)
- 2 Year Warranty

Cost of Installation

Contact KF Aerospace Engineering for aircraft installation price evaluation at:

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