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Blue Avionics' BA-440 system certified by Dassault Aircraft Services for ADS-B OUT DO-260B on Falcon 900C/900EX, Falcon 2000/2000EX, and Falcon 50/50EX Aircraft

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CHESTER SPRINGS, PA – The Blue Avionics BA-440 Router/Filter provides Dassault Falcon Jet with the SBAS GPS interface, INS filtering, and full ADS-B system monitoring for their supplemental type certificates (STCs) of Automatic Dependent Surveillance-Broadcast (ADS-B) Out solution on Falcon 900C/EX, Falcon 2000/2000EX both Proline 4 and Proline 21 platforms, and Falcon 50/50EX Proline 4 and Proline 21 platforms. Falcon 900 A/B certification is expected before the end of the year.

STC's were performed by Dassault Falcon Jet. STC kits are available through Dassault.

ADS-B pairings include GPS sources Collins 4000S 822-2189-0XX, Honeywell HG2021GDXX and HG2021KB02 and the Rockwell Collins TDR-94D(-500) series transponders. The Blue Avionics BA-440 Router/Filter is used to monitor the full ADS-B system and to condition the ARINC 429 output from the Honeywell GNSSU HG2021GD04/06 SBAS GPS to interface with the Rockwell Collins TDR-94D (-500 Series) Transponder. The BA-440 is also used for INS filtering to the TDR-94D on some of the aircraft. The pairing of the three sub-systems as certified by Dassault ODA STC provides Falcon operators with perceptive annunciations and intuitive pilot failure procedures, thus making the BA-440 the best value and most comprehensive solution in the market today. The multifunctional BA-440 provides an upgradable solution for future growth while providing a fully compliant solution for today's regulatory requirements by both the Federal Aviation Administration (FAA) and European Aviation Safety Agency (EASA) to meet the January 2020 mandate deadline for ADS-B Out DO-260B retrofits.

Blue Avionics Founding Member, Ross Cairns, states "We are pleased to support Dassault Falcon Jet / Dassault Aircraft Services with our Multifunctional BA-440 Router/Filter. The BA-440 system has proven itself to not only provide fully compliant ADS-B DO-260B solutions with above pairings, but also provide the flexibility and configuration ability to handle differences in the aircraft model avionics suites and future modifications using its highly configurable capabilities. For instance, the pairing of the Honeywell GNSSU and Rockwell Collins Transponder is made possible by using the BA-440's configurable data rate and ARINC block handling features. These configurable features enable the BA-440 to interface the Honeywell



PRESS RELEASE

GNSSU HG2021GDXX and CMC CMA-3024/5024 SBAS GPS units to the Collins TDR-94D Transponders IAW DO-260B PVT Nav Data Block requirements.”

The value of the BA-440 system is in its flexibility and capability to perform more than just a single ADS-B function such as turning on a light. The BA-440 system provides the most comprehensive support of ADS-B “as noted below”. Yet while concurrently, it is providing future support for NextGen systems requiring an ARINC 429 interface and/or discrete combinations by simply using the installed BA-440 system for ADS-B with only an update to the installed configuration plug’s personality table.

BA-440 System’s Comprehensive Support for ADS-B:

- 1) Fully Compliant to AC20-165A and DO-260B Monitoring and Annunciations
- 2) Certified per FAA, EASA, and CASA ADS-B Out Requirements
- 3) On-side and Cross-side monitoring of System integrity of each ADS-B Component, mode status, Off/Missing digital ARINC data.
- 4) Device Failures for all equipment including self-monitoring Device failure using DO-178B DAL B software
- 5) Inhibits Annunciations if system is in standby mode.
- 6) Fully Compliant to AC 25.1309-1A Safety Requirements – DAL B monitoring of DAL B systems
- 7) Monitor and complaint with ADS-B monitor requirements of TSO-C166b and TSO-145C
- 8) Required to Interface the Honeywell GNSSU to the Collins TDR-94D (-500 series) Transponder for DO-260B compliant ADS-B Out.
- 9) Provides INS filtering to the TDR-94D (400/500 series) Transponders

The multifunctional BA-440 can be configured to handle a variety of ARINC 429 and discrete functionality inclusive and exclusive of ADS-B. For more information contact Blue Avionics at (+1.610.458.3763 / Blue.Sales@BlueAvionics.com)

For more information on the use of the Dassault Aircraft Services Falcon 900C/EX, Falcon 2000/200EX, and Falcon 50/50EX ADS-B 260B STCs contact Glenn Hart (+1.201.541.4702 / Glenn.Hart@FalconJet.com) or Olivier Langeard (+1.302.322.7325 / Olivier.Langeard@FalconJet.com).

About Blue Avionics

Blue Avionics designs, builds, and manufactures, certified, specialized function, custom, and highly configurable Multifunctional Avionics equipment, Aircraft upgrade Harnesses, and mechanical mounting parts. Blue Avionics has FAA certified production centers in New York and Maryland with headquarters located in Pennsylvania. Blue Avionics is one of the first Avionics companies to certify a highly configurable Multifunction Avionics unit (the BA-440



PRESS RELEASE

Router/Filter) that can be used for many different functions in an aircraft with DO-178B / DO-254 DAL B integrity and safety. Call or email us to find out more.

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