

PRESS RELEASE

TAWS Mode 5 Alerting using the existing EGPWS is now FAA and EASA Certified

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CHESTER SPRINGS, PA – The Blue Avionics BA-440 Router/Filter is FAA and EASA certified to provide Terrain Awareness Warning System (TAWS) Mode 5 alerting during Localizer Performance with Vertical guidance (LPV) approach and Required Navigation Performance (RNP) approach using the existing EGPWS. The system is designed to meet the LPV TAWS Mode 5 alerting Federal Aviation Administration (FAA) and European Aviation Safety Agency (EASA) LPV approach mandate.

Initial certification is on the Bombardier Q400 aircraft performed by Canard Aerospace. “Canard Aerospace is proud to offer this affordable STC package to Airlines to meet the FAA and EASA mandates for LPV approach with TAWS Mode 5 Alerting,” says David Sindelar, General Manager of Canard Aerospace.

Launch customer airBaltic is installing the BA-440s together with the Universal Avionics UNS-1Ew Satellite-Based Augmentation System (SBAS) Flight Management System (FMS). “In fact, the BA-440 has salvaged our E-GEN project we perform in cooperation with European Global Navigation Satellite Systems Agency (GSA). The project aim is to equip our turboprop fleet with modern, LPV capable FMS, but we had come to a dead-end with the TAWS Mode 5 Alert requirement until the BA-440 Router/Filter stepped on the stage. As the flight test shows, the system works well,” says Aleksandrs Vorobjovs, airBaltic Avionics Engineer.

The BA-440 detects and combines the LPV data from the SBAS FMS with the general-purpose bus to EGPWS while in LPV mode. This allows existing EGPWS to provide Mode 5 Alerting and provides annunciations to the cockpit during both ILS and LPV approaches per AC20-138C.

“The SBAS FMS provides operators with LPV approach capability that can be used all over the world. Using the Blue Avionics BA-440 with Universal Avionics SBAS FMS allows airlines and operators to have TAWS Mode 5 Glideslope alerting to meet AC20-138C requirements today,” says Grady Dees, Universal Avionics Director of Technical Sales.

“We are proud to provide operators with a low-cost solution to TAWS Mode 5 Alerting to meet the FAA and EASA mandate during LPV approach and as a bonus we also provide Glideslope Alerting during a RNP approach. We look forward to supporting additional aircraft model STCs and any LPV capable FMS with our solution” says Ross Cairns, Blue Avionics Founder and Managing Director.

The Blue Avionics BA-440 Router/Filter is a highly configurable adaptable avionics system that is certified performing a number of functions including Automatic Dependent Surveillance-Broadcast (ADS-B) monitoring. The value of the BA-440 is its highly configurable design and high integrity DO-178B DAL B Software that allow the unit to be used for many different applications.

About airBaltic: airBaltic is one of the world’s most punctual airlines connecting the Baltic region with 60 destinations in Europe, the Middle East, and the CIS. The *airBaltic* fleet consists of 26 aircraft – 3 Bombardier CS300, 11 Boeing 737 and 12 Bombardier Q400Next Gen, operated out of three Baltic capitals – Rīga, Tallinn, and Vilnius.

About Blue Avionics

Blue Avionics designs, builds, and manufactures certified, specialized function, custom, and highly configurable Adaptable Avionics equipment, Aircraft upgrade Harnesses, and mechanical mounting parts. Blue Avionics has FAA certified production centers in Pennsylvania and Maryland with headquarters located in Pennsylvania. Blue Avionics is one of the first Avionics companies to certify a highly configurable Multipurpose Adaptable Avionics Unit (the BA-440 Router/Filter) that can be used for many different functions in an aircraft with DO-178B / DO-254 DAL B integrity and safety. For more information contact Blue Avionics at:

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