

## PRESS RELEASE

# Blue Avionics BA-540 AAU Certified on EMB-120 at Peregrine

10 May 2022 at 11:50 AM EST

EXTON, PA – Blue Avionics BA-540 Adaptable Avionics Unit (AAU) is FAA certified by Peregrine on the Embraer EMB-120 to provide interface between dual GTN-650 GPS/COMM/NAV/MFD and the Flight Data Acquisition Unit (FDAU). The BA-540 AAU also provides dedicated discrete outputs for side 1 and side 2 marker beacons.

The BA-540 AAU is configured to reformat the Dual GTN-650 GPS/NAV/COMM/MFD ARINC 429 outputs to be compatible with the existing FDAU / Flight Data Recorder (FDR) for the aircraft. In addition, the BA-540 AAU converts the ARINC 429 outputs from the GTN-650 GPS/NAV to dedicated inner, middle, and outer marker beacon outputs for both GTN-650 GPS/NAV.

The BA-540 AAU monitors itself with built-in-test (BIT) and provides a Valid discrete to indicate if the system is failed or missing.

The EMB-120 STC installs a Garmin G700 TXi Avionics suite with 10.6” PFDs, 7” MFDs, Dual GTN-650 GPS/NAV, GRS-79 AHRS, GDC 72 ADCs, GWX-75 Weather Radar, GTS-855 TCAS I, GTX 345R Mode S ES/ADS\_B transponders, MD302 Standby indicator, and Blue Avionics BA-540 AAU. The G700 TXi installation is engineered, installed, and certified by Peregrine of Englewood, Colorado. “This total cockpit refresh will greatly enhance the operation of the EMB-120 Regional and Freighter aircraft to have all the features of a glass cockpit as well as Dual GTN-650s to fly RNP routes, LPV approaches, ADS-B airspace, as well as integrated COMMs and enhanced situational awareness with the new displays. The BA-540 AAU ensures the aircraft will record FAA required parameters in the FDR and provides dedicated marker beacon outputs.” says David Rankin, President, Peregrine. The STC ST00895DE is available through Peregrine on behalf of Worldwide Aircraft Services.

“The BA-540 AAU is part of Blue Avionics Adaptable Avionics Product line including the BA-440 Router/Filter and BA-110 ARINC 429 to CSDB Converter (ACU) are designed to be highly configurable Avionics to perform hundreds of functions on aircraft. We have thousands of Adaptable Avionics products performing a variety of functions flying on business jets, turboprop aircraft, regional airlines, helicopters, military aircraft, air transport, and cargo aircraft. We are proud to support Peregrine with our BA-540 AAU on the Embraer EMB-120”, says Ross Cairns, Founder, Blue Avionics.

## About Blue Avionics

Blue Avionics designs, builds, and manufactures certified highly configurable Adaptable Avionics products to perform specialized and customized requirements. The company also provides certified mechanical mounting parts and aircraft upgrade harnesses for OEMs. The company has FAA certified production centers located in Pennsylvania. Blue Avionics is one of the first Avionics companies to certify highly configurable Multipurpose Adaptable Avionics Systems to perform different functions in aircraft with DO-178B / DO-178C / DO-254 DAL B integrity and safety. For more information contact Blue Avionics at: <https://BlueAvionics.com>, Phone +1(610)458-3763, Blue Avionics, 212 Welsh Pool Road Exton, Suite C, PA, 19341 USA. [Blue.Sales@BlueAvionics.com](mailto:Blue.Sales@BlueAvionics.com),

## About Peregrine

Peregrine Avionics, LLC, is an aircraft engineering and certification firm located at Centennial Airport in Englewood, CO. Over its more than 10-year history, Peregrine has obtained over 25 STCs and provided extensive design and certification support for Parts 23, 25, 27 and 29 aircraft. It is currently awaiting approval of its application for Organization Designation Authorization. For this and other Peregrine STCs contact us at <https://Peregrine.aero>, Phone +1(303)325-3873, Peregrine Avionics, 7385 So Peoria St, Unit C4, Englewood, CO, 80112 USA