

U.S. AIR FORCE EC-37B CROSS DECK

Enhancing the U.S. Air Force's capabilities to outpace adversaries' emerging technologies

L3Harris is working with industry team members BAE and Gulfstream to integrate the Compass Call electromagnetic warfare (EW) system onboard a modern business jet. The aircraft will become the U.S. Air Force's advanced Compass Call aircraft designed to combat enemy threats.

BAE Systems is the mission systems integrator for the program and Gulfstream is the original aircraft manufacturer of the specialized EC-37B aircraft, a special-mission Gulfstream G550 that meets Air Force requirements. As the platform integrator for the program, L3Harris is migrating, or cross decking, the existing legacy Compass Call EC-130H mission system onto the EC-37B.

The G550 platform has increased speed, endurance and extended stand-off range over the legacy EC-130H aircraft – providing significantly improved survivability. The new platform will provide combatant commanders with improved stand-off jamming capability and flexibility to counter sophisticated communications and radar threats.

The cross-deck initiative extends the Air Force's critical electronic warfare mission for many years, while enabling it to outpace its adversaries and counter emerging technologies. The G550's superior reliability and sustainability mean that just 10 EC-37B aircraft provide equivalent EW capacity as the original high-demand 14 EC-130H aircraft fleet.

THE COMPASS CALL MISSION

The Compass Call mission system disrupts enemy command and control communications and limits adversary coordination essential for enemy force management. The Compass Call system employs offensive counter-information and EW capabilities in support of U.S. and coalition tactical air, surface and special operations forces. It is part of the suppression of enemy air defense triad, and programmed upgrades expanded its mission by procuring a secondary EA capability against early warning and acquisition radars.

The Air Force's Compass Call program has been in operation for 40 years. The highly-deployed EC-130H aircraft have served in every major U.S. contingency operation, and until recently, were continuously deployed to support U.S. Central Command. L3Harris' Waco, Texas aircraft missionization facility has provided integration and depot-level maintenance services to the legacy Compass Call EH-130H fleet since 2003.

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L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



PROGRAM DETAILS

- > Compass Call EW system migration onto new EC-37B aircraft from legacy EC-130H platforms
- > L3Harris platform integration provider
- > BAE Systems mission system integrator
- > Hosted on Gulfstream's G550 platform

BENEFITS

- > Extends USAF's critical electronic warfare mission
- > Modern platform for increased speed, endurance and sustainability
- > Significantly improved capability and survivability over legacy aircraft
- > Improved stand-off jamming capability and flexibility to counter sophisticated communications and radar threats
- > Platform size, weight and power enables upgrades for evolving missions

