



# Backgrounder

Boeing Defense, Space & Security  
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## C-130 Avionics Modernization Program (AMP)

### Description and Purpose:

The C-130 AMP was initiated to modernize, standardize and reduce total ownership costs for the U.S. Air Force C-130 fleet, including specialized versions in service with the Air Force Special Operations Command (AFSOC). It consolidates 13 Mission Design Series into one common core avionics suite with five mission families: one for Combat Delivery, which constitutes the majority of the C-130 fleet, and four for the unique Special Operations mission requirements.

The central element of Boeing's AMP configuration is Communication, Navigation, Surveillance/Air Traffic Management compliance, without which the C-130 fleet would be prohibited from certain worldwide air-navigation routes. An upgraded, common fleet offers dramatic life cycle cost benefits including greater reliability, simplified fleet-wide training, and a flexible architecture designed to reduce crew size and accommodate future technology insertion.

### Customer(s):

Boeing is expected to provide the AMP modifications and upgrades to 221 Air Force C-130 transport aircraft.

The benefits of the C-130 AMP upgrade include:

- **A modern digital glass cockpit** featuring six 6x8 Multi-Function Displays, pilot and co-pilot wide field of view Head Up Displays, two Communication and Navigation Control Panels, and Night Vision Imaging System compliance
- **Open system architecture** that is both modular and net-ready. This permits reduction in crew size through elimination of the navigator, while allowing for the addition of future capabilities
- **Performance Based Contractor Logistics Support** that employs Integrated Vehicle Health Management; establishing a fleet-wide integrated training approach and implementing a common spares base. Boeing's support approach makes the C-130 fleet more available and more affordable to operate.
- **Preparation of the C-130 for another 30 years of service** by ensuring the affordable long-term combat relevance of today's C-130 fleet.

### Program Milestones:

Boeing awarded AMP contract

June 2001

First preliminary design review	November 2003
First critical design review	June 2004
First aircraft received	January 2005
First flight AMP 1 (H2)	September 2006
Second aircraft received	April 2005
First flight AMP 2 (H2.5)	March 2007
Third aircraft received	November 2007
First flight AMP 3 (H3)	January 2009
First AMP simulator delivered	July 2009
Extreme flights testing complete	August 2009
Second flight trainer delivered	September 2009
Third flight trainer delivered	October 2009
First AMP delivered to customer	January 2010
C-130 AMP maintenance training	January 2010
AMP 3 Isochronal Inspection	February 2010
Second AMP delivered to customer	March 2010
Low Rate Initial Production	June 2010
Third/Final AMP delivered to customer	June 2010
First LRIP aircraft inducted	August 2010
Second LRIP aircraft inducted	October 2010
Initial Operational Test & Evaluation	
Training began	July 2011

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September 2011