



Avionics Modifications

Support and Services

MAINTENANCE AND ENGINEERING SOLUTIONS





Support and Services

Quality avionics modifications for increased profitability

In today's competitive environment and increasingly congested airspace, commercial airplane operators need to maximize every opportunity to operate safely, effectively, and economically. The best way to do that is by ensuring you have the best—and most up-to-date—avionics systems.

Boeing Support and Services offers a wide array of Avionics Modifications that will add value to your fleet of Boeing and McDonnell Douglas airplane models. We work with you to make sure you receive exactly what you want and need, managing all aspects of design, integration, validation, and certification to ensure your upgrade is of the highest quality.

Here's what you get when you trust your Avionics Modifications to Boeing Support and Services:

- The advantage of working with the original equipment manufacturer.
- Airplane knowledge and modification experience, consulting capability, and adherence to design and installation standards.
- Approved parts.
- FAA-certified master change kits and kit configuration notices.
- Configuration control for comprehensive technical support and future growth.
- Updates and access to all of your documents including drawings, service bulletins, and manuals.
- On-site technical and modification support.
- 24-hour product support for the airplane's lifetime.
- More than 300 field service locations around the globe.
- The Boeing Warranty on the work we perform.

Avionics Modifications

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Prepare for tomorrow's skies today.

In addition to reducing operating costs, Boeing navigation products allow you to meet emerging regulatory requirements for operating in reduced airspace, fly at optimum altitudes, and perform approaches with more precision.

- The Boeing-designed and integrated flight management system ensures superior navigation performance throughout the flight profile.
 - Required Navigation Performance (RNP) capability saves time and fuel and reduces weather-related delays and diversions by allowing the airplane access to RNP Approach and RNP Authorization Required (AR) Approach, preferred flight and track levels, reduced approach minimums, Future Air Navigation System (FANS-1) routes, and global airspace.
 - Next-generation flight management system hardware prepares you for pending air traffic management developments by providing the capacity to add new capability such as FANS-1 features and controller-pilot data link communications.
 - Products for out-of-production airframes ensure a Boeing-supported growth path with operational commonality across your fleet.
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Ensure reliable and efficient communications.

A comprehensive family of communications master change kits support reliable, efficient, and global flight deck voice and data links connecting your airplane with your own airline operational control (AOC) and with air traffic services data link.

- A Boeing Aircraft Communications Addressing and Reporting System Communications Management Unit (ACARS/CMU) upgrade provides a platform for flight management system–hosted AOC data link, allowing two-way communication of flight plans, wind data, and more.
- Inmarsat and Iridium SATCOM master change kits provide the data link capability required for operation in a FANS-1 environment, as well as voice communications for passenger services, including in-flight entertainment options and passenger telephones.
- Use of the original production designs ensures total airplane integration and allows for future upgrades.





Avionics Modifications

Keep a better eye on the skies.

Our surveillance products give your airplanes increased operational flexibility, which translates into profitability.

- Weather Radar systems aid in detecting and locating weather systems commonly associated with flight hazards, allowing you to reroute to maintain flight schedules.
- The Traffic Alert and Collision Avoidance System alerts the flight crew of potential conflicts with other airplanes.
- The Enhanced Ground Proximity Warning System warns the flight crew of hazardous terrain clearances. With the optional peaks-and-obstacles feature, terrain data can be displayed during all phases of the flight.
- The ATC Transponder system supplies airplanes with identifying information, including data to distinguish types of airplanes. This helps to avoid collisions and other hazards created by improper airplane separation. Boeing provides both DO-260 and DO-260B ADS-B (Automatic Dependent Surveillance Broadcast) solutions.

Transform your flight deck.

We'll upgrade your Boeing airplanes with the same advanced flight deck technology used on the Boeing 787 Dreamliner—ensuring they can successfully compete in today's airspace and beyond. Three large-format LCDs replace CRT displays and numerous electro-mechanical instruments—all at an affordable price.

- Fewer components means lower maintenance costs.
- Integrated terrain, traffic, weather, and navigation information eases the task of modern navigation.
- Increased display space and processing capacity facilitate current and future safety, air traffic management, and airplane security capabilities.
- Proactive management of CRT obsolescence extends the life of your airplanes.
- Flight deck displays in common with the Boeing 787 Dreamliner and 737 MAX airplanes reduce transition training and associated costs for operators with mixed fleets.

Please contact Boeing Commercial Aviation Services at **boeingsupportandservices@boeing.com** for additional information.



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MAINTENANCE AND ENGINEERING SOLUTIONS

- Maintenance and Engineering
- Maintenance Execution
- Modifications
- Technical Content Management
- Maintenance Optimization
- Fleet Engineering Solutions

Boeing Commercial Airplanes

Marketing

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