Committed to keeping you flying
Controls and Avionics Solutions
BAE Systems is a world leader in Full Authority Digital Engine Control (FADEC) design, development, production, and support. Our state-of-the-art FADEC systems are currently on Boeing, Airbus, Bombardier, and Embraer planes.

Supported Aircraft: Military

- Agusta Westland: EH101
- Bell: 214ST, AH-1W/AH-1Z, UH-1Y
- EADS/CASA: CN235
- Fairchild Republic: A-10
- HAL: LCA
- Kaman Aircraft: SH-2G
- Lockheed Martin: F-2 (with Mitsubishi), F-16 C/D, F117A, T-50, U-2S
- NHIndustries: NH90
- Northrop Grumman: B-2, F-5, T-38
- Saab: JAS39
- Sikorsky: CH-53K, S-92, SH-60, UH-60/UH-60J
Core Capabilities

- Full Authority Digital Engine Control (FADEC)
- Supervisory controls
- Power management controls
- Power system monitors
- Thrust reverser monitors and controls
- Electronic control units
- Electronic interface control units
- Prognostics and vibration monitoring units
- Cables and harnesses

An Industry Leader in FADEC

- More than 25 years of experience designing and certifying FADEC for commercial and military aircraft
- Preferred supplier to GE and CFM International with an installed base of more than 25,000 engines
- Supplier of next-generation LEAP and GE9X FADECs
- FADEC overhaul program designed by us, the OEM, to extend the life of the FADEC
- Member of FADEC International and FADEC Alliance
- Multi-generation product family approach

Supported Aircraft: Commercial

- Agusta Westland: AW-189
- Beechcraft: Premier 1
- Bell: 525 (in development)
- Boeing: 717, 737, 747, 757, 767, 777, 787
- Bombardier: CRJ
- CASA (EADS): CNo-235
- Embraer: 170/190
- Saab: SK60, SF-340
Flight Controls

Supported Aircraft: Military

- Agusta Westland: EH101
- BAE Systems/EADS/Alenia Aeronautica: Typhoon
- Bell: 214ST, AH-1W/AH-1Z, UH-1Y
- EADS/CASA: CN235
- Fairchild Republic: A-10
- HAL: LCA
- Kaman Aircraft: SH-2G
- NHIndustries: NH90
- Northrop Grumman: B-2, F-5, T-38
- Saab: JAS39
- Sikorsky: CH-53K, S-92, SH-60, UH-60/UH-60J

Supported Aircraft: Commercial

- Airbus: A320
- Bell: 525 (in development)
- Boeing: 737, 747, 767, 777, and 747-8
- Bombardier: CRJ and CSeries
- Embraer: Legacy 450/500 and KC-390 (in development)
- Gulfstream G500/G600 (in development)
BAE Systems is a market leader in the design, development, production, and support of highly reliable Flight Control Systems (FCS) for commercial and military aircraft. We were the first to introduce FBW in military applications (F-16/F-18) and civil applications (A310). Today, our commitment to innovation continues with the development of an Active Inceptor System that enables tactile cueing for pilots.

**Core Capabilities**

- Active Inceptor Systems (AIS)
- Actuator control electronics
- Autopilot controls
- Fly-by-Wire (FBW) control systems
- Ground collision avoidance systems
- Optionally manned flight control systems
- Primary flight control (Fly-by-Wire)
- Prognostics and health management
- Rate and acceleration sensors
- Remote electronic units
- Rudder and yaw control
- Secondary/slats and flaps (high lift) flight controls and monitoring
- Spoiler control electronics and monitoring
- Stabilizer control and monitoring
- Vehicle management systems
Flight Deck Systems

Our smart electronics are designed to streamline and simplify control of the flight deck environment through intuitive, integrated technology that ensures optimal aircraft performance.

Control and Monitoring Systems

- Airborne power management
- Electronic cargo handling and controllers
- Emergency door power assist system
- Fuel systems and fuel jettison
- Hydraulic quality and pressure monitor
- Ice detection
- Overspeed warning
- Pilot alerting

Supported Aircraft

- Boeing 737, 747, 757, 767, 777
Detection and Alerting Systems

- Electronic warning management
- Ice detection
- Overspeed warning
- Pilot alerting
- Proximity sensing
- Smoke/fire detection and alerting
- Stall warning

Core Capabilities

- Audio control and management
- Caution and warning systems
- Head-up displays
- Instrument control and panels and modules
- Low-cost production through our global manufacturing network
- Master dim and test
- Radio tuning
The IntelliCabin Family of Products

- Crew mobile device solutions
- Dynamic LED lighting control
- In-Seat Power system (ISP)
- Tablet IFE system
- Turnkey service and support

Supported Aircraft

- More than 1,200 Boeing 737NG with Boeing Sky Interiors are enabled by our Attendant Control Panel
- More than 1,100 Boeing 777 aircraft fly with our cabin systems on board
- Tablet IFE on fleet of Airbus 320 aircraft
With more and more emphasis being placed on passenger satisfaction, airlines are demanding functionality that will improve the passenger flight experience while giving crews the tools and control to serve them more efficiently. With BAE Systems' IntelliCabin®, that functionality and control is now available.

Core Capabilities

- In-seat power for all passengers, all the time, regardless of seat class
- State-of-the-art tablet IFE system that offers the best of today's tablet technology
- Simplified control of everything electronic in the cabin through the use of our user-friendly Attendant Control Panel (ACP) or through mobile devices
- Boarding music
- Cabin climate
- Cabin power
- Dimmable windows
- Dynamic LED lighting
- In-flight entertainment
- Passenger address and cabin interphone
- Maintenance diagnostics
- One-touch control of all seats for fast and efficient cleaning of the cabin
- Optimization of power usage and distribution
- Potable water consumption and waste water assessment
Mission Systems

Our proficiency with mission-critical electronic systems, flight controls, and computers – coupled with our systems integration expertise – allows us to produce highly reliable products that can withstand harsh environments and the test of time.

Supported Aircraft

- Agusta Westland: AW609, AW101/EH101
- Airbus: A5332
- BAE Systems: Hawk
- BAE Systems/EADS/Alenia Aeronautica: Tornado, Typhoon
- Bell: AH-1W, UH-1Z
- Bell Boeing: CV-22/MV-22
- Boeing: AH-6i, B-1B, C-17, CH-47, F-15, F/A-18, KC-135, KC-46, QF-16 Unmanned
- Fairchild Republic: A-10
- Lockheed Martin: C-130, F-16, F-22, F-35
- Northrop Grumman: B-2, BQM-74, E-2
- Saab: JAS-39
- Sikorsky: CH-53K, SH-92, UH-60M
- Westland: WG-13
Mission Avionics

• Caution and warning systems
• Digital maps
• Display processors
• Fuel management systems
• Instrument control panels and modules
• Mission computers
• Throttle controls

Weapon Controls

• Enhanced envelope gun sight
• Integrated flight and fire control
• Stores management computers
• Weapon pylon station unit

Core Capabilities

• Advanced flight controls
• Integrated flight/navigation
• Payload and mission management
• Stores management
• Weapon management/controls
We provide spares and asset management as well as maintenance, repair, and overhaul for a wide variety of aircraft electronics, including:

- Airframe systems controls and monitoring
- Cabin systems
- Data distribution
- Detection and alerting systems
- Electrical distribution systems
- Flight deck systems
- Engine controls
- Flight controls
- Test equipment and technical services

Keeping you flying is our business

We develop and manufacture innovative aircraft products and back them with a global network of service and support for all current and anticipated needs. With service centers located in the United Kingdom, the Americas, and Asia, we strive to provide our 600+ customers with the best possible service experience.
BAE Systems offers unparalleled experience with flight-critical systems, software, and hardware. We develop and manufacture innovative aircraft products and back them with a global network of support for all current and anticipated needs. Our expertise covers many platforms to maximize commonality, availability, and affordability throughout the program life cycle.

Our service centers are strategically located to ensure the best possible service

- Rochester, UK: Flight controls, in-flight entertainment, and head-up displays for commercial and military applications; electrical distribution systems, flight deck systems, airframe systems control and monitoring, cabin systems, detection and alerting systems, and data distribution for commercial applications
- Fort Wayne, Indiana: Engine controls, flight controls, and harnesses for commercial and military applications; flight controls, electrical distribution systems, flight deck systems, airframe systems control and monitoring, cabin systems, detection and alerting systems, and data distribution for commercial applications
- Singapore: Flight controls, electrical distribution systems, flight deck systems, airframe systems control and monitoring, cabin systems, detection and alerting systems, and data distribution for commercial applications
Aftermarket Support

Commercial Aircraft Support

BAE Systems provides capabilities and products that improve operational safety and performance – backed by customer-driven service and support – for commercial, regional, and business aircraft.

Our Services

- Assured quality
- Comprehensive life extension and retrofit solutions
- FAA, EASA, and CAAC approvals available
- Life-extension programs
- Modifications, repairs, and overhaul
- Original and upgrade equipment
- Prognostics and fleet health management
- Spares, repairs, and fleet health optimization from the experts who built it

- Service and support website designed with our commercial customers in mind
- Streamlined delivery and 24/7 support
- World-class, trusted provider of FADEC overhaul solutions with our maintenance and upgrade program
Military Aircraft Support

We’re a leading supplier of integrated control products, subsystems, and human-machine interface systems for a broad range of weapon systems. The company’s advanced design and development expertise and exceptional aftermarket service combine to sustain platform longevity and logistical readiness for domestic and approved foreign customers.

As a preferred provider of avionics and integrated solutions for more than 40 military platforms worldwide, we offer:

- Full design, production, and support capabilities
- Leading-edge technology with full military logistics support
- Life-extension programs
- Modifications, repairs, and overhaul
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