



GENESYS AVIONICS SUITE™

AVIONICS MODERNIZATION
FOR H-60 PLATFORM

COMPLETE AVIONICS MODERNIZATION SOLUTION

The Genesys Avionics Suite™ provides renewed operational life and increased mission effectiveness through a complete and comprehensive cockpit system modernization customized to the unique operational needs of existing H-60 rotorcraft.

The Genesys Avionics Suite lowers sustainment costs and provides a modular and open architecture with upgradability to deploy new features and technologies keeping Black Hawk fleets modernized and mission effective. The Genesys Avionics Suite enhances capabilities and improves performance at a fraction of the cost and schedule of a new aircraft.

SYSTEM COMPONENTS

- Redundant EFIS Displays
- Redundant EICAS Displays
- Electronic Standby Instrument System
- Redundant Autopilot/Flight Director
- Navigation Radios (VHF, ADF, DME/TACAN)
- Communication Radios (VHF, UHF, Satcom)
- Radio Management Units
- Redundant Audio Management Units
- Dual Mode S Transponders
- Redundant AHRS
- Redundant GPS/SBAS Receivers
- Dual Air Data Computers
- Dual Radar Altimeter
- ACAS (TCAS II)
- Weather Radar
- ADS-B Receiver
- VHF & SatCom Datalink
- Dual CVFDR
- ELT
- Redundant Data Concentrators

EFIS FEATURES

PFD with SVS & HITS PFD with SVS & TAWS Hover Vector

EHSI Moving Map/Terrain/Obstructs Attitude Recovery

Search Patterns Selectable Video Inputs Audio/Radio Management

Graphical Flight Planner Weather Radar Datalink Weather, FIS-B

Customizable Synoptics EICAS ACAS + ADS-B Traffic

EXTEND AIRCRAFT LIFE

Moog delivers a modern digital cockpit, advanced digital 4-axis IFR certified autopilot capability, open-system integration, and replacement of aging avionics components while leveraging the proven H-60 airframe.

Features of the Genesys Avionics Suite include:

- Open architecture
- Mission-system flexibility
- PFD and MFD EFIS digital cockpit display suite
- Synthetic Vision and Highway-In-The-Sky flight navigation symbology
- HTAWS terrain warning & alerting
- Full EICAS display capability
- Integrated GDR VHF/UHF digital Nav/Comm radio package
- IFR Certified 4-Axis Rotorcraft Autopilot
- Digital legacy gyro replacement
- Mil-Std qualified
- NVG compatible



Approved for public use; distribution is unlimited

MODERNIZE CAPABILITIES

BLACK HAWK MODERNIZATION SOLUTION FEATURES

COMMUNICATIONS

- Audio/Radio management
- 8.33/25 kHz VHF & 12.5 kHz UHF radios
- VOR/localizer/glide slope/marker beacon integrated into single LRU with VHF/UHF comms radio
- Satcom Data/Voice (optional)

NAVIGATION

- FMS with Graphical Flight Planner
- Dual GPS/SBAS receivers
- Redundant digital autopilot/flight director
- Redundant VOR/localizer/glideslope/marker beacon
- Digital attitude sensor replacement of legacy mechanical gyros
- Redundant Air Data, Attitude, and Heading Reference Systems (ADAHRS)
- Dual Radar Altimeters
- Dual DME/TACAN (optional)
- Dual ADF (optional)

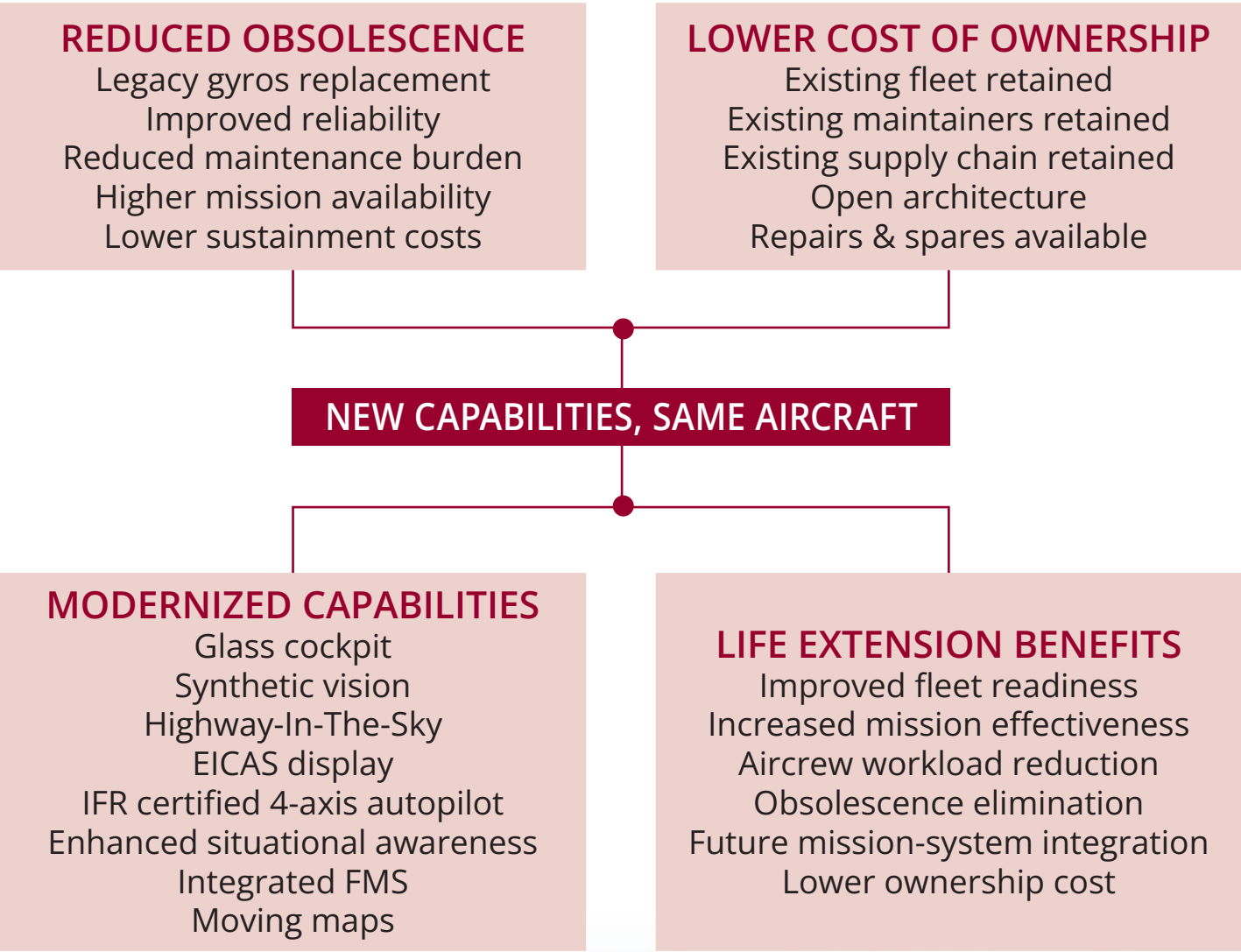
SURVEILLANCE

- Dual Mode S transponders or dual IFF w/ ADS-B out
- ACAS (TCAS II)
- ADS-B traffic & datalink weather
- Dual CVR/FDR (CVFDR)
- Weather Radar Control and Display (optional radar hardware) /FIS-B
- ELT

SITUATIONAL AWARENESS

- Engine Indicating and Crew Alerting System (EICAS) with redundant signal processing and redundant display
- HTAWS
- Highway-In-The-Sky (HITS) Guidance
- Synthetic Vision System (SVS) Display
- EFB integration
- Moving Map with terrain, obstacles, & NavData display
- Selectable live video display

MODERNIZE ONCE. UPGRADE FOREVER.



SYSTEM ARCHITECTURE



GENESYS AVIONICS SUITE™ COMPONENTS

EFIS – PRIMARY & MULTI-FUNCTION FLIGHT DISPLAYS



Moog EFIS suites feature a variety of PFD and MFD formats that can be configured to show flight instruments, moving map, HSI, flight planner, traffic, terrain, weather radar, datalink, video, radio/audio management, and engine displays.

FMS – FLIGHT MANAGEMENT SYSTEM



Moog EFIS suites feature a built-in Flight Management System for improved mission effectiveness, enhanced safety, and workload management.

EICAS – ENGINE INDICATION & CREW ALERTING SYSTEM



Moog's patented OASIS® (Open Architecture System Integration Symbolology) software allows easy customization and display of engine information and CAS messages.

HTAWS



Moog EFIS suites feature rotary-wing HTAWS (Helicopter Terrain Awareness and Warning System) for enhanced safety and workload management.

SVS – SYNTHETIC VISION & HIGHWAY-IN-THE-SKY



Moog 3D Synthetic Vision and Highway-In-The-Sky flight navigation enhances safety and reduces pilot workload during ILS and RNAV/RNP precision approach procedures.

ROTARY-WING AUTOPILOT

Moog GRC™ rotorcraft 4-axis autopilot is a full-featured, attitude-based digital flight control system that provides dramatic workload reduction and safety enhancements making missions safer and more effective.



LEGACY GYRO REPLACEMENT

The Genesys Avionics Suite replaces existing legacy mechanical gyros with modern digital ADAHRS for higher accuracy and increased aircraft reliability, which provides weight savings and reduced maintenance costs.



RADIO – NAVIGATION & COMMUNICATION

The Moog GDR™ radio is a family of remote-mount, software-definable radios combining VOR/localizer/glideslope and marker beacon navigation and VHF communication with a UHF communication option in a single box.



INTERFACES

System interfaces are key to the open-architecture design to help dramatically reduce integration costs and schedules. The Genesys Avionics Suite includes all necessary interfaces to get the aircraft up and flying.



SENSORS

Sensors provide key aircraft system inputs to help increase aircraft operational performance and reduce integration costs and schedules. The Genesys Avionics Suite includes all necessary sensors to get the aircraft up and flying.



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