

EXTEND THE MISSION™



GENESYS AVIONICS SUITE™

AVIONICS MODERNIZATION
FOR LOCKHEED HERCULES AIRCRAFT

COMPLETE AVIONICS MODERNIZATION SOLUTION

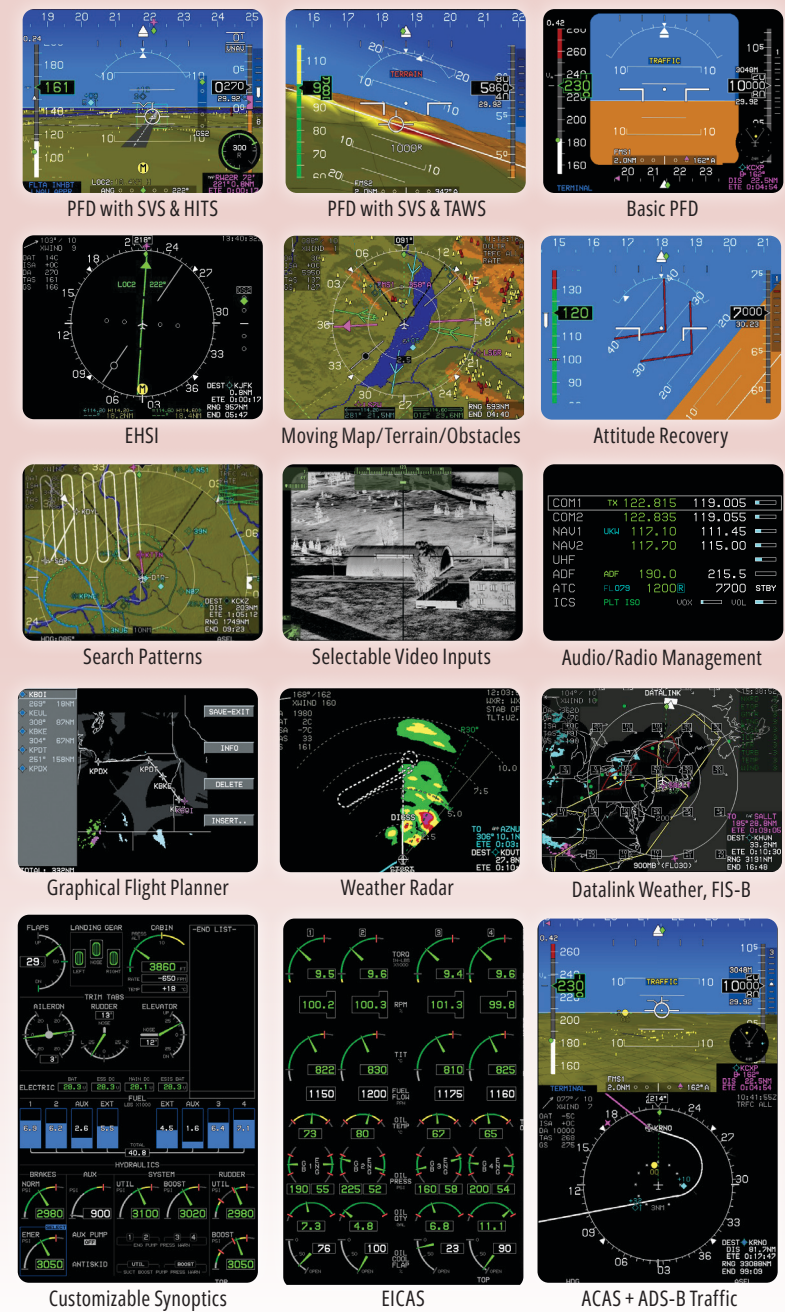
The Genesys Avionics Suite™ extends operational life and increases mission capabilities through a complete and comprehensive cost-effective avionics modernization customized to the unique operational needs of existing Lockheed L-100 and military C-130 aircraft.

The Genesys Avionics Suite lowers sustainment costs and provides a future-forward architecture with upgradability to deploy new features and technologies keeping L-100 and C-130 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
- Dual Autopilot/Flight Director
- Navigation Radios (VHF, ADF, DME/TACAN)
- Communication Radios (VHF, UHF, HF)
- Radio Management Units
- Redundant Audio Management Units
- Dual Mode S Transponders
- Triple IRS/AHRS
- Dual 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



EXTEND MISSION LIFE

Features of the Genesys Avionics Suite include:

- PFD and MFD EFIS digital cockpit display suite
- Synthetic Vision and Highway-In-The-Sky flight navigation symbology
- TAWS terrain warning & alerting
- Full EICAS display capability
- Integrated VHF/UHF digital Nav/Comm radio package
- Redundant digital autopilot/flight director with dual servos per axis
- Integrated master warning and caution system with voice alerts
- MIL-STD qualified
- NVG compatible



MODERNIZE CAPABILITIES

COMMUNICATIONS

- Audio/Radio management
- Triple 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
- Dual HF radios with SELCAL
- Satcom Data/Voice

NAVIGATION

- FMS with Graphical Flight Planner
- Dual GPS/SBAS receivers
- Redundant digital autopilot/flight director
- Triple VOR/localizer/glideslope/marker beacon
- ADC/AHRS
- Triple IRS
- Supports Airdrop Operations (CARP/HARP)
- Dual Radar Altimeters
- Dual DME/TACAN
- Dual ADF
- Triple MCDU

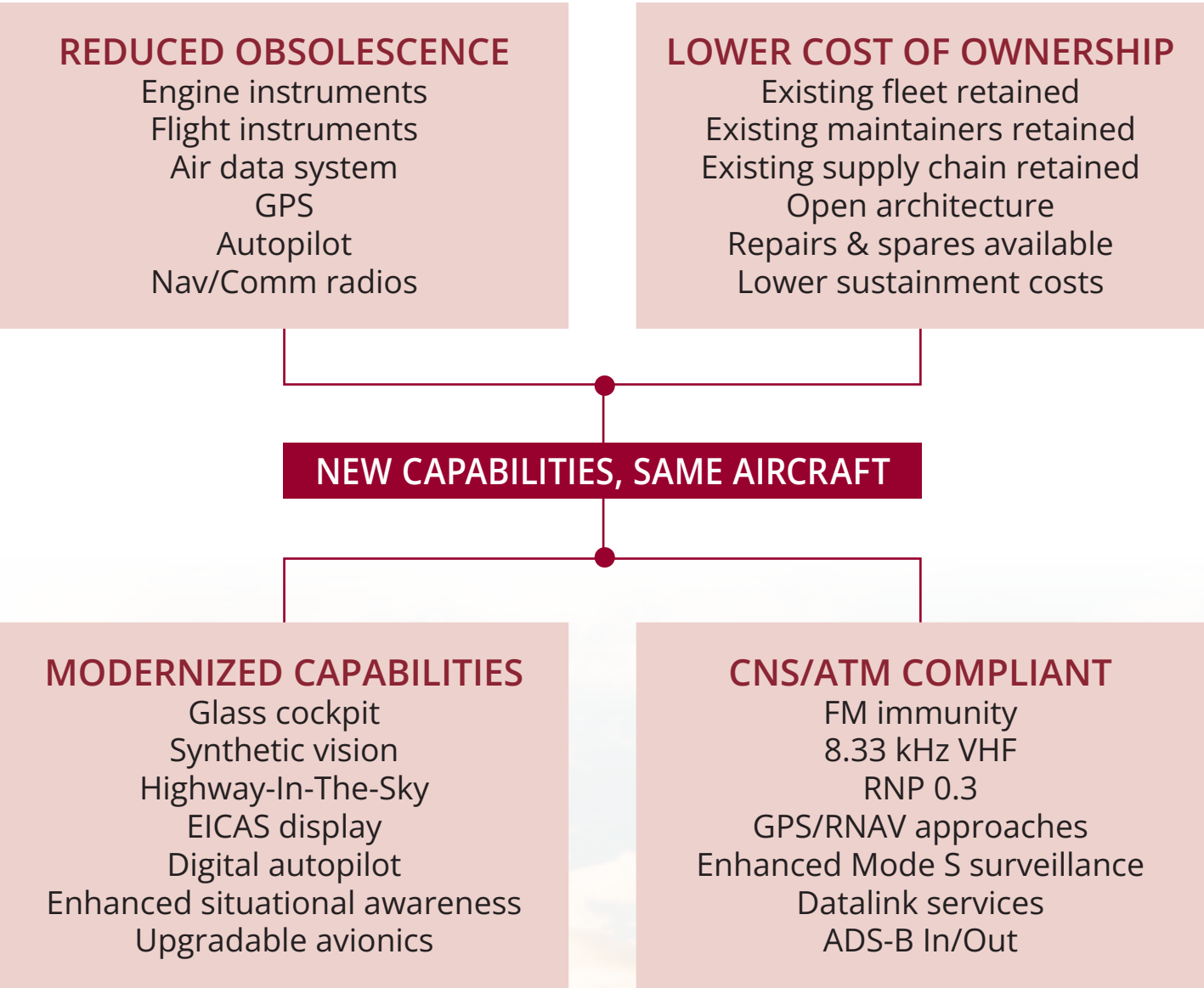
SURVEILLANCE

- Dual Mode S transponders or dual IFF w/ ADS-B out
- ACAS
- ADS-B traffic & datalink weather
- Dual CVR/FDR (CVFDR)
- Weather Radar with Predictive Windshear
- ELT

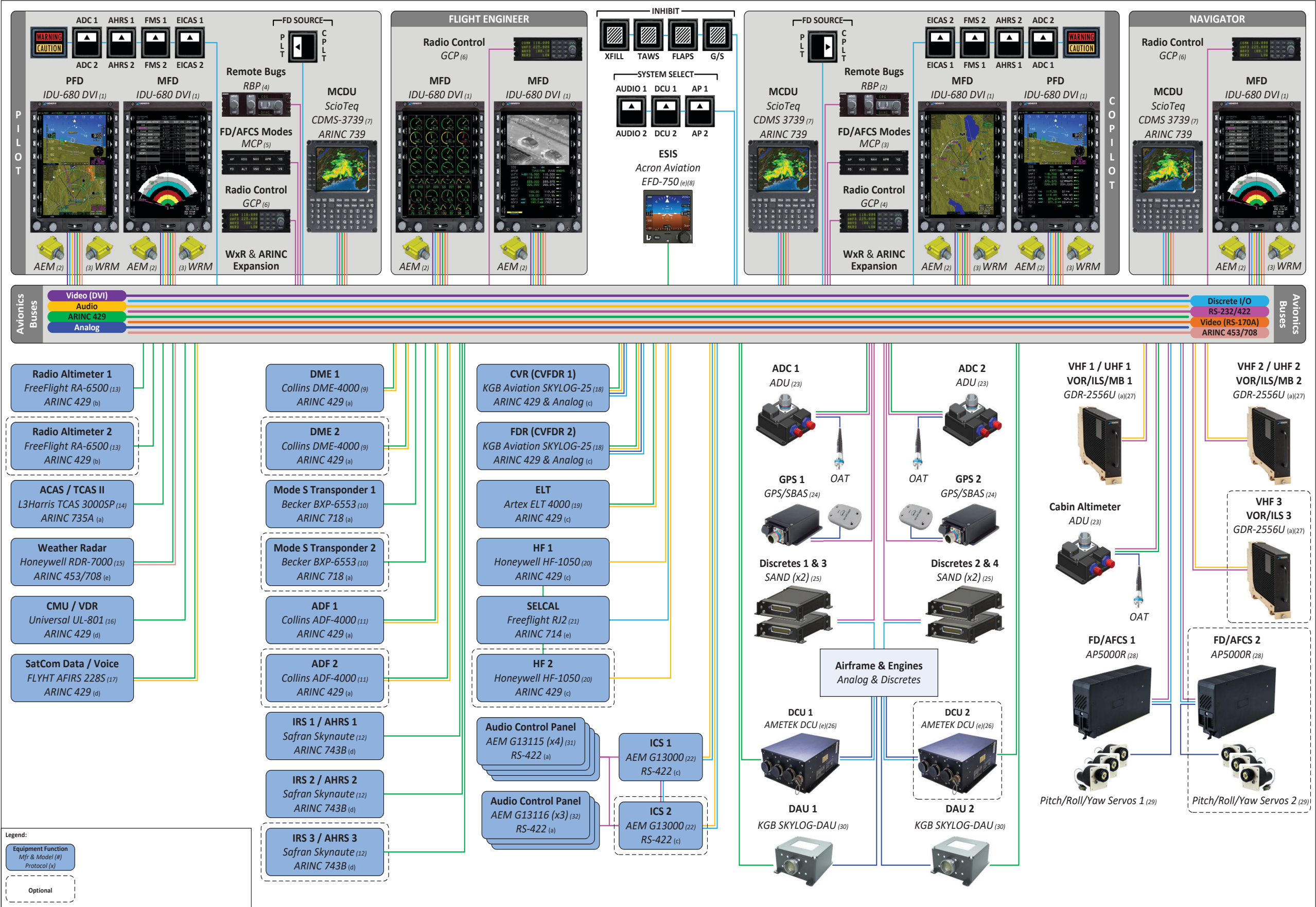
SITUATIONAL AWARENESS

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

REDUCE OWNERSHIP COSTS



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 Symbology) software allows easy customization and display of engine information and CAS messages.

TAWS



Moog EFIS suites feature TAWS (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.

FIXED-WING AUTOPILOTS

Moog fixed-wing autopilots are full-featured, attitude-based digital flight control systems that provide dramatic workload reduction and safety enhancements making focusing on the mission easier.



ELECTRONIC FLIGHT BAGS

Optional Electronic Flight Bag (EFB) integration provides increased mission planning and execution effectiveness. EFB's provide off-the-shelf ready solutions for tactical air drop planning (HARP/ CARP) and other planning benefits.



RADIOS – NAVIGATION & COMMUNICATION

The Moog GDR™ is a family of remote-mount, software-definable radios combining VOR/localizer/glide slope 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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