GE Aerospace

TrueCourse™

Futureproof Climb, Cruise, Approach

Full featured, connected, customizable Flight Management System for Fixed Wing, Rotorcraft, and VTOL

GE's TrueCourse™ is a modern Flight Management System (FMS) that delivers all the operational benefits sought by today's operators and is ready to adopt future capabilities that are sure to come.

With our pedigree of over 35 years and over 14,000 FMS deliveries, GE has experience on a multitude of aircraft and has designed this latest FMS to work across aircraft platforms and types, reducing the development costs and schedule for both new entrants and updates to existing platforms.

Faster customization is enabled by a simplified, innovative software architecture. The software can come hosted on a smart Touchscreen Control Display Unit that also acts as the Flight Management Computer or can be easily ported to another host computer for adaptability to existing avionics architectures.

Connectivity allows the operators to link their Electronic Flight Bag applications to the FMS for data exchange, reducing crew workload and enabling low-cost cockpit enhancements.

Plan
- Assemble, modify, select active and secondary flight plans
- Utilize on-board pilot interface, upload pre-planned nav data, upload via datalink, or connect to EFB flight planning software

Navigate
- Multi-sensor navigation using available sensors
- Auto-selects best solution from available sensors

Communicate
- Automated communications management with AOC & ATC
- All current comm channels are supported

Overview

Flight Planning
Guides pilot in creation of Flight Plans
Integration of Civil Airspace Rules & Restrictions
Provides worldwide Navigation Database (Type 2 LOA)
- Waypoints, Airways, Airports and Runways
- Standard Instrumented Departures (SIDS)
- Standard Arrivals (STARS)
- Precision Approaches
- In-flight modifications to flight plans

Vertical Performance Optimization
Optimized Vertical and Thrust Profiles
Optimized Fuel Flight Profiles
Optimized Time Flight Profiles
Required Time of Arrival at a Waypoint
Available Loiter Time
Flight Envelope Protection
Integrated with Lateral Profiles

Connectivity
Bi-directional, secure interface with EFB application and/or ground applications
Software development kit provides data access to applications
FM data selected through configuration file

Ready for the Future
Dynamic RNP
Advanced Interval Management
Trajectory Negotiation with Air Traffic Control

Guidance
Lateral/vertical coupling to flight director or autopilot/ auto-throttle

Navigation
Optimal position and velocity estimation (Kalman Filter)
- GPS, INS, DME, VOR, ILS
Sensor monitoring
Automated Navigation Radio Tuning

Communications Management
VHF Datalink (VDL) Mode A/2
HF Datalink (HFDL)
Satellite
- Iridium
- Inmarsat
Fleet Operations Communications
- ACARS
ATC Communications
- FANS 1/A
- ATN B1/Link 2000+
- ATN B2

Advanced Airspace Features
RNAV/RNP AR 0.1
Required Time of Arrival (5 seconds)
Continuous Descent Approach
Performance Based Navigation
LP/LPV Approach Integration
Fleet Operations Flight Plan Datalink

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