



# iAccess iFCC-9000 Flight Control System: Precision, Safety and Reliability



## Reach new heights with the iAccess iFCC-9000 Advanced Digital Autopilot System

The iFCC-9000 is a fully digital autopilot and flight director system built for the most demanding operational environments. Originally designed for the C-130H, its adaptable architecture allows for customization across a range of aircraft platforms, making it a versatile solution for various mission profiles and configurations.

Developed as a seamless replacement for aging analog systems, the iFCC-9000 enhances flight precision, reduces pilot workload, and improves overall mission safety. With advanced automation, effortless integration into existing aircraft systems, and industry-leading reliability, it enables operators to modernize their fleet with minimal disruption.

Built to rigorous DO-160 environmental standards and boasting an MTBF of 40,000 hours, the iFCC-9000 offers a long-term, high-performance solution. Whether installed as part of a comprehensive cockpit upgrade or as a standalone enhancement, it delivers next-generation capabilities without requiring extensive aircraft modifications.

### iFCC-9000 HIGHLIGHTS:

- Approved for flight and in-service since February 2024
- FAA TSO Certifiable
- FMS Coupled LNAV and VNAV modes
- Reuse or replace legacy servos
- HDG, ALT SEL, ALT HLD IAS, VS, FMS LNAV/ VNAV, VOR, LOC, BC, GS, APR, TOGA, and SYNC modes
- Integrated flight director with customizable user interface
- Built-in analog-to-digital conversion
- Compatible with most analog or digital equipment: GPS, FMS, INS, ADC, AHRS, MMR, MFDs
- Optional MIL-STD-1553B interface
- Hosted on an affordable and highly customizable mission computer
- Adaptable to future requirements
- NVIS NVG compliant
- Designed for harsh environments
- Can host additional applications up to DAL-A
- Data concentration, conversion and calculation



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Autopilot/Flight Director Modes:		Specifications:
<ul style="list-style-type: none"> <li>✓ HDG</li> <li>✓ ALT SEL</li> <li>✓ ALT HLD</li> <li>✓ IAS</li> <li>✓ VS</li> <li>✓ FMS LNAV/ VNAV</li> <li>✓ VOR</li> </ul>	<ul style="list-style-type: none"> <li>✓ LOC</li> <li>✓ BC</li> <li>✓ GS</li> <li>✓ APR</li> <li>✓ TOGA</li> <li>✓ SYNC</li> </ul>	
ARINC-429:		Discrete I/O:
<ul style="list-style-type: none"> <li>✓ 4 RX/TX Channels</li> <li>✓ 8 RX/TX Channels</li> <li>✓ 16 Channels: 8 RX/TX + 8 RX Only</li> <li>✓ 30 Channels: 16 RX/TX + 14 RX Only</li> <li>✓ ARINC-419/-429/-575/-717</li> </ul>		
Analog #1:		Analog #2:
<ul style="list-style-type: none"> <li>✓ 4, 8, or 16 analog outputs with 12 or 16-bit resolution</li> <li>✓ High-speed USB 2.0, USB 3.0 and 1.1 compatible</li> <li>✓ Unipolar and bipolar output ranges of 0-10V, ±10V</li> <li>✓ Real-time hardware calibration per channel</li> <li>✓ Update outputs at speeds up to 4 kHz</li> <li>✓ Two 16-bit analog inputs and 16 lines of digital I/O</li> </ul>		
Digital Video:		Qualifications:
<ul style="list-style-type: none"> <li>✓ Three (3) Digital Video Outputs</li> </ul>		<ul style="list-style-type: none"> <li>✓ DO-160G</li> <li>✓ MIL-STD-461/-464/-704/-810</li> </ul>

## Typical Autopilot/Flight Director System Interconnect

