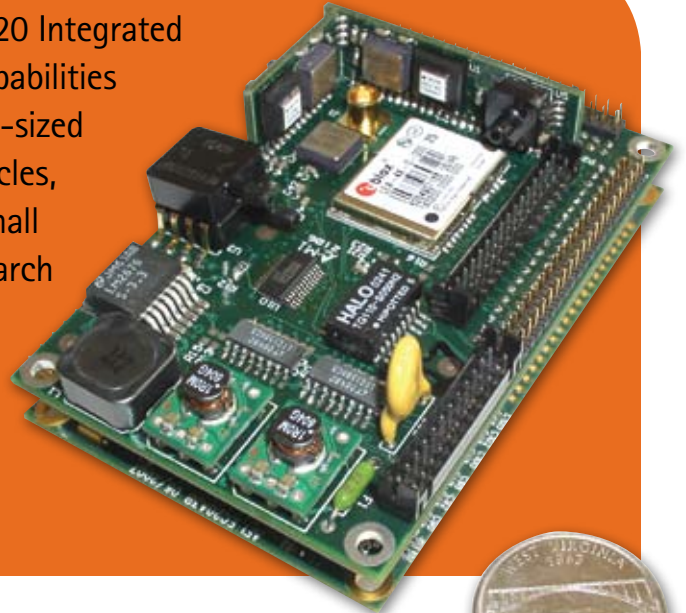


FCS20

Advanced UAV Flight Control Technology

With roughly 6 GFLOPs of processing power, the FCS20 Integrated Flight Control System advances flight and mission capabilities far beyond traditional UAV autopilots. The credit card-sized system has been integrated into a wide range of vehicles, including ducted fan, fixed wing aircraft and ultra-small helicopters. Developed at the Georgia Tech UAV Research Facility, a world leader in rotorcraft flight control systems and UAS research, the FCS20 is licensed exclusively to Adaptive Flight. Semi-open architecture design and strong documentation enable easy integration with third-party applications.



FLIGHT CONTROL CONFIGURATION

The FCS20 consists of two credit card-sized boards. The processor board employs a Floating Point Digital Signal Processor (DSP) and a Field Programmable Gate Array (FPGA) for optimal performance and design flexibility. The sensor board includes navigation sensors, power supply modules and communication interface circuits. The system weighs less than 70g and power consumption is approximately 2 watts.

Specifications

FCS20

- Processors: TI 300 Mhz DSP and Altera Stratix II FPGA
- Memory: 256 Mb SDRAM, 1Gb Flash (optional)
- Rate gyros: +/-300 Degrees Per Second
- Accelerometers: +/- 5g Programmable
- GPS: uBlox Differential w/4 Hz Update Rate
- Air data/Altimetry: -1000 to 50K (+/-0.5 ft at S.L.), Airspeed
- Digital interface: 4 x RS2323, Ethernet, 80 General Purpose IO
- Power: 7-20 V dc @ 1-3 W
- Size: 55mm x 85mm x 28mm
- Weight: 65 grams



About Adaptive Flight Headquartered in Atlanta, Adaptive Flight, Inc., designs and manufactures the world's smallest and most advanced helicopter surveillance systems. The Hornet Unmanned Aircraft System (UAS) is ideal for short- range, tactical military and civilian reconnaissance and surveillance operations. Small, quiet and highly maneuverable, the Hornet delivers superior visual intelligence with real-time video, high-resolution images and other advanced operations. For more information, visit www.adaptiveflight.com.