Affordable airborne testbeds and Unmanned Aircraft Surrogates for testing of sensors, avionics, digital communications systems, and more.

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Two piston engine, fixed-wing general aviation aircraft are available for flight testing needs. The Beechcraft A36 Bonanza and Cessna 172 Skyhawk are capable of carrying a range of equipment making it ideal for early stage research and development at a lower cost than higher end jets and helicopters. The Bonanza is frequently used as a UAS surrogate to test data link connectivity.

### Beechcraft A36 Bonanza

- **Specifications**
  - Crew: 3 (1 pilot, 1 copilot, 1 Flight Test Engineer)
  - Range: 716 NM
  - Service Ceiling: 18,500 feet
  - Cruise Speed: 176 kts
- Dynon SkyView Flight Displays, rapidly reversible to Collins Proline Fusion EDS
- UAS Surrogacy Capability
  - Capability to equip CNPC control datalink to emulate UAS
  - Also supports secure radio datalink installation
- Belly plate
- Rear cargo area
  - Room for equipment and FTE
  - Removable hardware rack capable of multiple applications / configurations
- Collins Proline Fusion
- Digital Auto-Pilot
  - Aileron, Elevator, and Rudder Control
- Power Systems
  - 2V DC
  - 28V DC
  - 110V AC

### Cessna 172 Skyhawk

- **Specifications**
  - Crew: 2
  - Range: 700 NM
  - Service Ceiling: 13,500 feet
  - Cruise Speed: 122 kts
- 120V AC Inverter
- Used primarily as chase plane for UAS operations