KuStream 2000 Antenna System

KuBand receive only Antenna Subsystem:
- EAA – External Antenna
- ACU – Antenna Control Unit

Novel Antenna Technology
- Unique cavity array with suspended air strip line feed network
- Proves superior G/T

Embedded GPS Pointing Solution
- Eliminates pointing error drift

Flight Tested in 2011
- Designed for FAA Certification

External Antenna Assembly (EAA)

- Cavity backed suspended air stripline array aperture
- Two orthogonal linear polarization
- Two axis elevation over azimuth pedestal

Receive frequency	10.7 – 11.4 GHz
Receive G/T	11.3 dB/K @ 11.05 GHz
Azimuth gain pattern	First sidelobe -17 dB @ 5° / Grating lobe -25 dB
Pedestal positioning range	Elevation 0° to 90° / Azimuth 0° to 360° continuous
Satellite tracking accuracy	Better than 0.48° combined azimuth-elevation error
Dimensions, sweep volume	6.30 x 30.41 inches (H x D)

Antenna Control Unit (ACU)

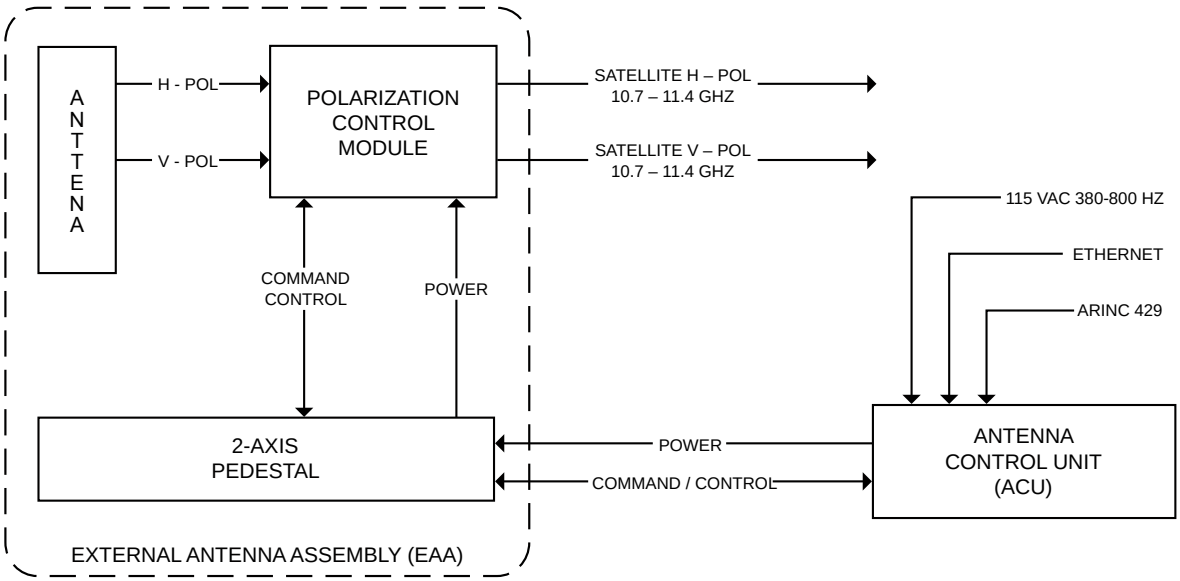
- Interfaces with aircraft for navigation
- Provides antenna positioning command and control

Power	115 VAC 380 – 800 Hz
Dimensions	11.8 x 8.1 x 3.0 Inches (W x L x H)
Mounting	Inside Fuselage

System Specifications

Total system current requirement	1 Amp
Total system power requirement	115 Watts
Built in test (BIT)	Extensive
Mean time between failure (MTBF)	> 20,000 Hrs (ACU, EAA)
Environmental qualification	RTCA/DO-160E

Block Diagram



A NEW STANDARD IN ***PERFORMANCE*** AND ***VALUE***