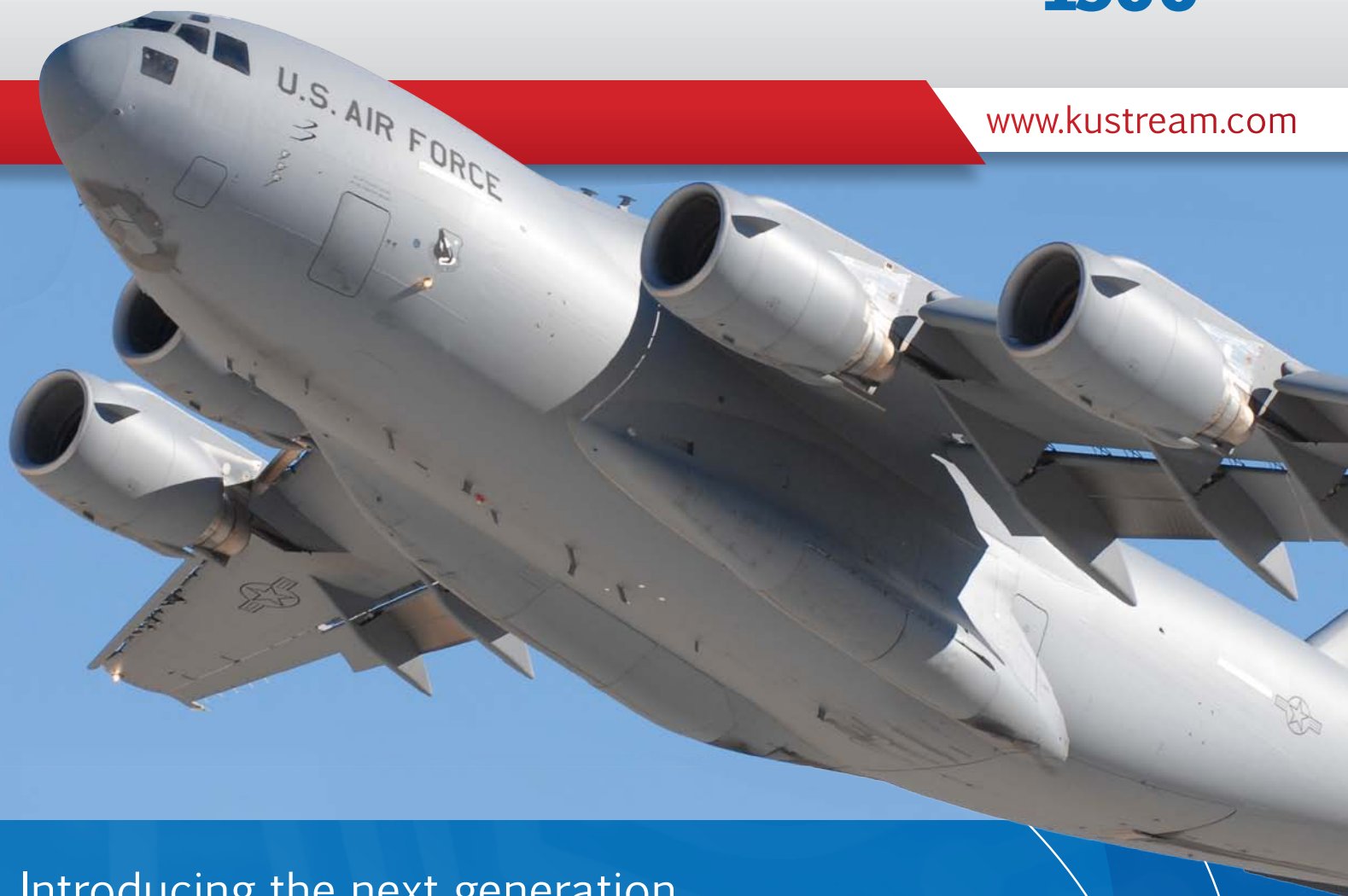


Ku**STREAM**TM

1500

www.kustream.com



Introducing the next generation

Ku Broadband Antenna System

Military grade in-flight connectivity

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

 **TECOM**
INDUSTRIES, INC.

smiths

KuStream 1500 Antenna System

Upgrades for Military:

- Higher Powered Transceiver (40 Watts)
- Works with major military modem suppliers
- Tested to DO-160 plus MIL STD 810 environmental specs
- C-17 flight test - 2011

Superior antenna system performance in transmit and receive

- Enables maximum Ku Band satellite network data rates
- High resolution video compatible

Industry leading geographical skew angle range

- Maximizes satellite coverage, resulting in larger operational theatres required for network

Novel antenna pointing & tracking solution

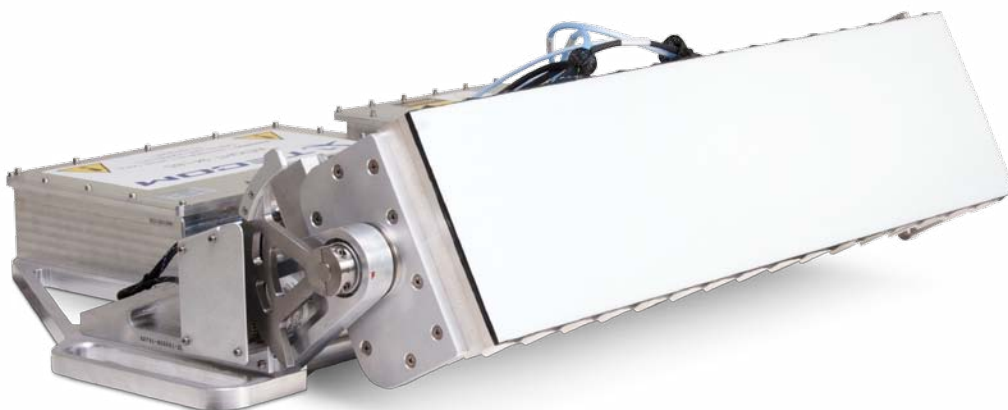
- Full compliance with stringent FCC regulatory standards
- Fastest satellite to satellite switching software

**The Military
Version
of the Commercial
KuStream 1000**

Satellite Antenna Assembly (SAA)

- Precision horn array aperture with integrated feeding network
- Two orthogonal linear polarizations, integrated diplexer architecture
- 2 axis pedestal

Transmit frequency	14.0 - 14.5 GHz	(international option 13.75 - 14.5 GHz)
Receive frequency	11.7 - 12.75 GHz	(international option 10.7 - 12.75 GHz)
Receive G/T	11.8 dB/K @ 11.7 GHz	
Transmit EIRP	up to 44.8 dBW (depending on service providing scheme and coverage)	
Azimuth gain pattern	Complies with 47 CFR 25.209 up to geographic skew angles of $\pm 35^\circ$	
Azimuth EIRP spectral density pattern	Complies with 47 CFR 25.222	
Pedestal positioning range	Elevation: 0° to $+90^\circ$; Azimuth: $0 - 360^\circ$ continuous	
Tracking accuracy	$\leq 0.2^\circ$	
Dimensions	8.0 x 32.0 inches (H x D, swept volume)	
Weight	96 lbs	



High Power Transceiver (HPT)

- Block up converter
- Block down converter
- High power amplifier
- Single chassis configuration



Transmit power	up to 40 Watts
Power	115 VAC, 380 - 800 Hz, < 300 Watts
Dimensions	2.95 x 17.5 x 16.57 Inches (H x W x L)
Mounting	Inside fuselage
Weight	30 lbs

Antenna Control Unit (ACU)

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

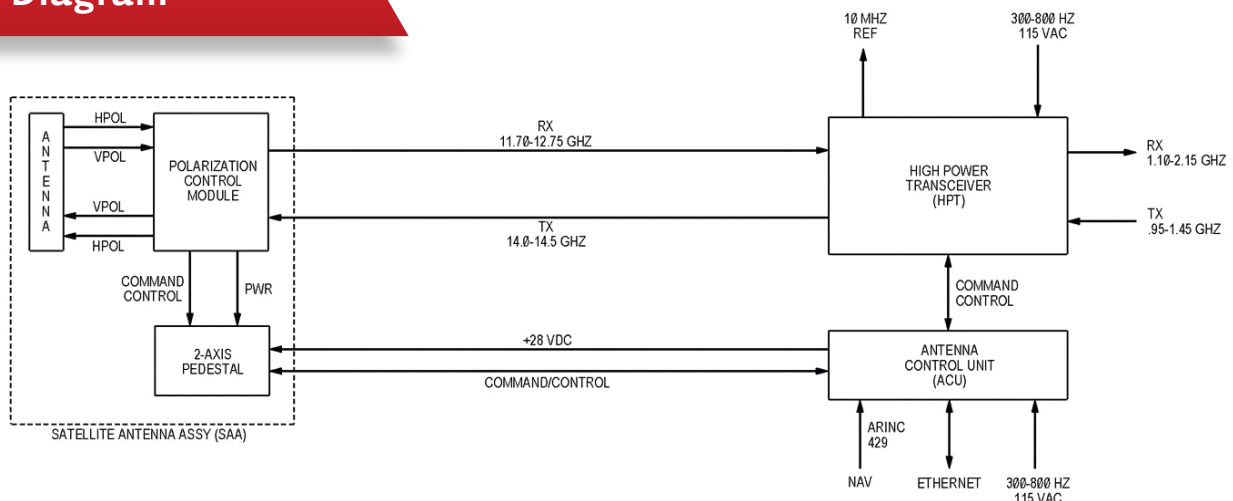


Power	115 VAC, 47 - 800 Hz, < 150 Watts
Dimensions	2.5 x 14.0 x 14.7 Inches (H x W x L)
Mounting	Inside fuselage
Weight	11 lbs

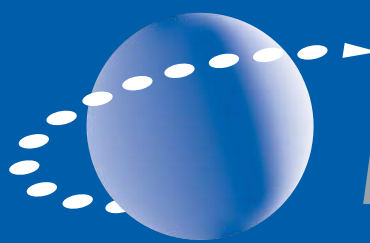
System Specifications

Total system current requirements	8 Amps
Total system power requirements	900 Watts
Built in Test (BIT)	Extensive
Mean Time Between Failure (MTBF)	> 30,000 hrs (SAA + ACU) 15,000 hrs (HPT)
Environmental Qualification	RTCA/DO-160 E

Block Diagram



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



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1500



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