

SPECIFICATIONS**ANTENNA**

Class	Tx/Rx medium profile dual Ku-/Ka-band airborne antenna
Array Configuration	Suitable for Airbus and Boeing class aircraft
Ka-band	
» Aperture	Waveguide horn array; with electronically switched circular, RHCP/LHCP, cross or co-polarization
» RF Electronics	Airborne Tx/Rx integrated assemblies (ATRIA) mounted to antenna aperture
» Rx Frequency	17.7 to 21.2 GHz
» Tx Frequency	27.5 to 31.0 GHz
» G/T (dB/K)	13.9 at 19.95 GHz at 35,000 ft (includes radome loss)
» EIRP (dBW)	47.25 at 31.00 GHz (includes radome loss)
Ku-band	
» Aperture	Waveguide horn array; with linear, electronically switchable cross and co-polarization; polarization tracking
» RF Electronics	Integrated Tx and Rx assemblies mounted to antenna aperture
» Rx Frequency	10.95 to 12.75 GHz
» Tx Frequency	14.0 to 14.5 GHz
» G/T (dB/K)	11 at 11.85 GHz at 35,000 ft (includes radome loss)
» EIRP (dBW)	47.0 at 14.25 GHz (includes radome loss)
» Antenna Control	Built-in Antenna Control Unit (ACU) mounted to antenna positioner; includes rate sensors and ruggedized programmable servo-motors (for azimuth over elevation control)
» Elevation coverage	0° to 80° under normal flight maneuvers, 0° to 90° with limited dynamics
» Azimuth coverage	360° continuous
» Swept Diameter	39.25 in.; 99.70 cm
» Height	11.30 in.; 28.70 cm
» Weight (Maximum)	<160 lb; <72.6 kg
Antenna Power Supply	
» Input	115 VAC, 400 Hz single phase
» Output	48 VDC/400 W nominal, 500 W maximum
» Dimensions (LxWxH)	11 x 8 x 4 in.; 28 x 21 x 10 cm
» Weight	<11 lb; <5 kg
Temperature Range	
» Operating	-55° to +70° C
» Storage	-55° to +85° C
Navigation Data	ARINC 429 bus

Initial Ku capability restriction:

Rx: 11.75-12.55 GHz

Tx: 14.0-14.5 GHz

Reduced Tx power