



AirTRx™ 60

Airborne SatCom antenna system

AirTRx 60 is an innovative airborne stabilized VSAT antenna system, providing high throughput and quality broadband communication via satellite to numerous airborne platforms such as special mission aircraft, UAVs, and commercial aircraft.

Designed to accommodate the regional and global coverage needs of the airborne communication market, AirTRx 60 is built to empower critical applications. AirTRx 60 complies with the most stringent worldwide SatCom regulations and certifications include RTCA/DO-160G.

AirTRx 60 supports Ku and Ka bands featuring outstanding RF performance and dynamic response under virtually any operating environment. Switching between RF bands is done by simple replacement of the feed.

As customers demand more complex, compact, reliable and comprehensive broadband infrastructure to support communication applications and services such as audio, video, data and internet, Orbit has continued to invest heavily in in-house research and development to maintain and enhance its position as a leading provider of flexible advanced systems suitable for any airborne application.

Orbit's airborne communication solutions have been selected by prestigious customers worldwide and are extremely robust and reliable. With more than 1500 systems operating globally over the last 20 years, Orbit's customers include aircraft manufacturers, major airborne integrators, communications service providers and government organizations.



Key features

- Multi band support
- Low weight
- Minimal swept volume
- Short lead time
- INS and RF tracking
- More than 1,500 delivered airborne systems
- Certified to RTCA DO160 G

Orbit's AirTRx series

AirTRx is a series of innovative airborne VSAT antenna systems, providing quality broadband satellite communication to a range of airborne platforms.



AirTRx 34, AirTRx 46, AirTRx 60
With parabolic antennas for best performance and SWaP-C



AirTRx LP25
With low profile antenna, available in Ku, Ka and Ku/Ka inflight switching

AirTRx 60 specifications

Parameters	Ku Band	Ka Band
	Operating Frequencies	Tx range: 13.75 to 14.50 GHz Rx range: 10.95 to 12.75 GHz
Antenna	Parabolic, 60cm diameter	
Polarization	Linear VP/HP	Circular LHCP/RHCP
G/T (Typical, at mid-range, 30° elevation, without radome)	14.0 dB/K	15.9 dB/K
EIRP (without radome)	52.7 dBW with 50W BUC	48.5 dBW with 5W BUC
Pedestal Type	Elevation over Azimuth, with Polarization compensation	
Azimuth Range	360° continuous	
Elevation Range (Mechanical)	0° to 90°	
Velocity	40°/sec	
Acceleration	50°/sec ²	
Tracking Accuracy	Better than 0.2°	
Weight	~ 15 Kg (without radome & BUC)	
Swept Volume	Height: 70 cm, Diameter: 66 cm	
Environmental Conditions	According to RTCA DO-160G	
Operating Temperature	-55 °C to +70 °C	

Notes:

- Additional configurations including X-band available upon request
- Other BUC sizes are optional
- Radome can be supplied upon request
- A turnkey solution is available upon request
- Specifications subject to change without prior notice

