

# **MODEL 1328 & 1338 Avion**

## **1.35 Meter Manual & Motorized Flyaway Antennas**



- ***Ships in 2 Ruggedized All Weather IATA Compliant Cases***
- ***Intelsat and Eutelsat Compliant***
- ***Multi-Band Configurations***
- ***11 Segment Carbon Fiber Precision Reflector***
- ***Compact Pedestal featuring easy point and peak control***
- ***High Gain / Low Cross Pol Design***
- ***Motorized Compact Controller using DVB Receiver or Modem for Automatic Acquisition***

The Sat-Lite Technologies Model 1328 Avion Manual flyaway antenna and Model 1338 Avion Motorized flyaway antenna is highly portable and designed to meet IATA weight and dimension requirements for checked baggage on airlines. The antenna features Sat-Lite's unique 11-piece segmented carbon fiber composite reflector designed for unmatched performance. Assembly time for either antenna is less than 15 minutes. The elevation-over-azimuth pedestal provides excellent stiffness characteristics and convenience for the user when pointing and peaking on a satellite.

In addition, the antenna is designed to meet international performance specifications for multiple applications. Multiple feed and packaging configurations can be supplied for a specific requirement that include low and high power amplifier configurations for each frequency band.



<i>Electrical Specifications</i>	2 Port X Band		2 Port Cross Pol Ku Band		2 Port Cross Pol Ka Band		
	Circular		Linear		Circular Polarization		
	Rx	Tx	Rx	Tx	Rx	Tx	
Frequency (GHz)	7.25 - 7.75	7.9 - 8.4	10.7 - 12.75	13.75 - 14.5	19.2 - 21.2	29.0 - 31.0	
Gain (Midband, dBi)	38.2	38.8	42.5	43.8	46.7	50.0	
Typ. Noise Temperature (°K)							
	10 deg El	74		79		155	
	20 deg El	65		70		115	
Axial Ratio	1.21 dB	2.0 dB			1.5 dB	1.0 dB	
Cross Pol (std)							
	On Axis	-23 dB	-18.7 dB	-35 dB	-35 dB	-21.3 dB	-24.8 dB
	in 1 dB BW	-23 dB	-18.7 dB	-35 dB	-35 dB	-21.3 dB	-24.8 dB
Sidelobe Compliances	188-164A		ITU 580-6		188-164A		
VSWR	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1	
Isolation							
Tx/Rx	-110 dB	0 dBm input	-85 dB	0 dBm input	-85 dB	0 dBm input	
Rx/Tx	0 dBm input	-110 dB	0 dBm input	-35 dB	0 dBm input	-70 dB	

<i>Mechanical / Environmental Specifications</i>	
Reflector	1.35 M Carbon Fiber
Reflector Configuration	11 Piece Symmetrical
Antenna Travel	
Azimuth	+/-180° continuous
Elevation	5 - 90° of reflector bore sight
Polarization	± 90° (Manual - Standard, Motorized - Optional)
Motorized Drive Speed	
Azimuth	Up to 3.5 Deg / Sec
Elevation	Up to 3.5 Deg / Sec
Packaging (Pelican Air 1637 - Qty 2)	26.6"x 20.6"x 14.9" (67.6 x 52.5 x 37.8 cm) ea.
Weight (includes case)	
Reflector / Feed Case	54 lbs (24.5 kg)
Pedestal Case (with Room for Small BUC)	Manual : 55 lbs (25 kg), Motorized : 68 lbs (32 kg)
Temperature	
Operational	-30 to 60°C (-22 - 140°F)
Survival	-40 to 70°C (-40 - 158°F)
Winds	
Operational (anchored)	30 mph Gusting to 45 mph ( 48 kph G 72 kph)
Survival (anchored, petals removed)	75 mph (120 kph)