

# MODEL 1628 Agilis

## 1.65 Meter Manual Flyaway Antenna



- Ships in 2 Ruggedized All Weather Cases
- Intelsat and Eutelsat Compliant
- Multi-Band X, Ku, and Ka Band Configurations
- 9 Segment Carbon Fiber Precision Reflector
- Compact Pedestal featuring easy point and peak control
- High Gain / Low Cross Pol Design
- Optional RC350 Satellite Finder

The Sat-Lite Technologies Model 1628 Agilis Manual flyaway antenna is highly portable, compact and light-weight. The antenna features Sat-Lite's unique 9-piece segmented carbon fiber composite reflector designed for unmatched performance. Assembly time for the antenna is one person in 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. An optional RC350 Satellite Finder is offered as an option to aid the user in finding and peaking on a satellite.



<i>Electrical Specifications</i>	2 Port X Band Circular		2 Port Cross Pol Ku Band Linear		2 Port Cross Pol Ka Band 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	17.7 - 21.2	27.5 - 31.0
Gain (Midband, dBi)	39.8	40.5	44.2	45.4	48.9	51.6	
Typ. Noise Temperature (°K)							
	10 deg El	74		75		150	
	20 deg El	65		65		118	
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	188-164		ITU 580-6		ITU 580-6		
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	1.65 M Carbon Fiber
Reflector Configuration	9 Piece Symmetrical
Antenna Travel	
Azimuth	+/-180° continuous
Elevation	5 - 90° of reflector bore sight
Polarization	± 90° (Manual - Standard, Motorized - Optional)
Packaging (2 Cases)	
Pedestal	37.5 in (95.25 cm) x 27 (68.6 cm) x 13.5 (34.3 cm)
Reflector	31.25 in (79.4 cm) x 31.25 in (79.4 cm) x 20.25 in (51.4 cm)
Weight (includes case)	
Pedestal Case - packed	105 lbs (47.7 kg)
Reflector - packed	98 lbs ( 44.5 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)